

# FUJITSU Software

## NetCOBOL V11.0

# Messages

Windows

B1WD-3305-02ENZ0(00)  
August 2015

# Preface

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This manual explains messages written by the WINCOB and compile commands, the COBOL compiler, and the COBOL runtime system. The messages listed are:

- Messages Output by WINCOB and Compile Commands (\*1)
- Messages Produced by the COBOL Compiler
- Messages Produced by the COBOL Runtime System
- Messages Produced by the COBOL Error Report (\*2)
- System Error Codes
- SCODE Format Error Codes
- File System Error Codes (when used by other products)

For Messages with prefix "JMWnnnnI" that are written by the COBOL Error Report, refer to the "NetCOBOL Debugging Guide".

\*1: WINCOB is a function that is specific to [\[Win32\]](#).

\*2: COBOL Error Report is a function that is specific to [\[Win32\]](#) and [\[Winx64\]](#)

## How this Manual is Organized

This manual consists of the following chapters and appendices:

Chapter	Contents
<a href="#">Chapter 1 Messages Output by WINCOB and Compile Commands</a>	Details of the WINCOB messages and Compile Commands messages.
<a href="#">Chapter 2 COBOL Compiler Messages</a>	Details of the COBOL Compiler messages.
<a href="#">Chapter 3 COBOL Runtime System Messages</a>	Details of the COBOL Runtime System.
<a href="#">Chapter 4 COBOL Error Report Messages</a>	Details of the COBOL Error Report.
<a href="#">Appendix A System Error Codes</a>	Details of the System Error Codes.
<a href="#">Appendix B SCODE Type Error Codes</a>	Details of the SCODE Format Error Codes.
<a href="#">Appendix C COBOL File System Error Codes</a>	Details of the File System Error Codes.
<a href="#">Appendix D Notes</a>	Notes.

## Conventions Used in this Manual

This manual uses the following typographic conventions.

Example of Convention	Description
<b>setup</b>	Characters you enter appear in bold.
<u>Program-name</u>	Underlined text indicates a placeholder for information you supply.
ENTER	Small capital letters are used for the name of keys and key sequences such as ENTER and CTRL+R. A plus sign (+) indicates a combination of keys.
...	Ellipses indicate the item immediately preceding can be specified repeatedly.
Edit, Literal	Names of pull down menus and options appear with the initial letter capitalized.

Example of Convention	Description
[def]	Indicates that the enclosed item may be omitted.
{ABC DEF}	Indicates that one of the enclosed items (delimited by  ) is to be selected. If items are omitted, the underlined item is assumed.
CHECK WITH PASCAL LINKAGE ALL PARAGRAPH-ID COBOL <u>ALL</u>	Commands, statements, clauses, and options you enter or select appear in uppercase. Program section names and some proper names also appear in uppercase. Defaults are underlined.
PROCEDURE DIVISION : ADD 1 TO POW-FONTSIZE OF LABEL1. IF POW-FONTSIZE OF LABEL1 > 70 THEN MOVE 1 TOW POW-FONTSIZE OF LABEL1. END-IF.	This font is used for examples of program code.
The sheet acts as an application creation window.	Italics are occasionally used for emphasis.
"COBOL Language Reference" Refer to "Compile Options" in Chapter 5.	References to other publications or sections within publications are in quotation marks.

We have tried to make all of our examples position-sensitive. However, given the restrictions of the size of the page, in some examples we have not been able to accomplish this. You should be aware that NetCOBOL is a position-sensitive language, unless you specify that your source is free format by using the SRF compiler option.

The term national language or national in this manual indicates double byte character languages, such as Japanese, Korean, or Chinese. Functions that are only available in the national language version of this system are indicated by [\*XXXXXX\*].

## Product Names

Product names are abbreviated in this manual as follows:

Product Name	Abbreviation
Microsoft(R) Windows Server(R) 2012 R2 Datacenter Microsoft(R) Windows Server(R) 2012 R2 Standard Microsoft(R) Windows Server(R) 2012 R2 Essentials Microsoft(R) Windows Server(R) 2012 R2 Foundation	Windows Server 2012 R2
Microsoft(R) Windows Server(R) 2012 Datacenter Microsoft(R) Windows Server(R) 2012 Standard Microsoft(R) Windows Server(R) 2012 Essentials Microsoft(R) Windows Server(R) 2012 Foundation	Windows Server 2012
Microsoft(R) Windows Server(R) 2008 R2 Standard Microsoft(R) Windows Server(R) 2008 R2 Enterprise Microsoft(R) Windows Server(R) 2008 R2 Foundation Microsoft(R) Windows Server(R) 2008 R2 Datacenter	Windows Server 2008 R2
Windows(R) 8.1	Windows 8.1

Product Name	Abbreviation
Windows(R) 8.1 Pro Windows(R) 8.1 Enterprise	or Windows 8.1(x64)
Windows(R) 8 Windows(R) 8 Pro Windows(R) 8 Enterprise	Windows 8 or Windows 8(x64)
Windows(R) 7 Home Premium Windows(R) 7 Professional Windows(R) 7 Enterprise Windows(R) 7 Ultimate	Windows 7 or Windows 7(x64)
Microsoft(R) Visual C++(R) development system	Visual C++

- The Microsoft Windows products listed below are referred to in this manual as "Windows(32)".
  - Windows Server 2012 R2
  - Windows Server 2012
  - Windows Server 2008 R2
  - Windows 8.1(x64)
  - Windows 8(x64)
  - Windows 7(x64)
- The Microsoft Windows products listed below are referred to in this manual as "Windows(x64)".
  - Windows Server 2012 R2
  - Windows Server 2012
  - Windows Server 2008 R2
  - Windows 8.1(x64)
  - Windows 8(x64)
  - Windows 7(x64)

### System-specific Functions

Some parts of the articles described in this manual differ among systems. Such parts are indicated by Win32 and Winx64 and correspond to the following systems:

Indication	Corresponding system
[Win32]	Windows Server 2012 R2 NetCOBOL V11 Windows Server 2012 NetCOBOL V11 Windows Server 2008 R2 NetCOBOL V11 Windows 8.1 NetCOBOL V11 Windows 8 NetCOBOL V11 Windows 7 NetCOBOL V11
[Winx64]	Windows Server 2012 R2 NetCOBOL V11 Windows Server 2012 NetCOBOL V11 Windows Server 2008 R2 NetCOBOL V11

Indication	Corresponding system
	Windows 8.1(x64) NetCOBOL V11 Windows 8(x64) NetCOBOL V11 Windows 7(x64) NetCOBOL V11

## Product Differences

The following products are not supported in the US English-language version or other English-language versions of this product, but may be mentioned in this manual:

- BS\*NET
- IDCM
- MeFt/NET, MeFt/NET-SV, MeFt/Web
- PowerAIM
- RDB/7000 Server for Windows NT
- Print Walker/OVL option
- Systemwalker/List Works
- PowerRDBconnector

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- The permission of the Microsoft Corporation has been obtained for the use of the screen shots.

## Acknowledgment

The language specifications of COBOL are based on the original specifications developed by the work of the Conference on Data Systems Languages (CODASYL). The specifications described in this manual are also derived from the original. The following passages are quoted at the request of CODASYL.

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August 2015

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# Chapter 1 Messages Output by WINCOB and Compile Commands

This section explains the messages written by the WINCOB and compile commands, the action taken by the system, and appropriate programmer responses. Variable character strings are expressed as \$s in the messages below.



WINCOB is a peculiar function for [Win32].

---

## '\$s' is an invalid as source file name.

### System action

Compilation terminated.

### Response

Specify the correct file name, then re-execute.

---

## An invalid sub option is specified for '\$s'.

### System action

Compilation terminated.

### Response

Specify the correct sub-option, then re-execute.

---

## Source file name is missing.

### System action

Compilation terminated.

### Response

Specify the name of the file to be compiled, then re-execute.

---

## \$s is not COBOL97 Compiler options.

### System action

Compilation terminated.

### Response

Specify the correct option, then re-execute.

---

## Argument of \$s is not specified.

### System action

Compilation terminated.

### Response

Specify the argument for the option (\$s) correctly, then re-execute.

---

## '\$s' is not found.

### System action

Compilation terminated.



## Response

Specify the correct file name, then re-execute. The file name is written for \$s.

---

## **System error '\$s1' occurred on '\$s2'.**

### System action

Terminates compilation abnormally.

### Response

Check and eliminate the cause of the error. System error code errno=0xXXX (expressed in hexadecimal) is written for \$s1. The name of the processing in which the system error occurred is written for \$s2.

---

## **Repository is invalid. Compilation terminated.**

### System action

Terminates compilation abnormally.

### Response

Confirm that the compiler is installed correctly.

---

## **An invalid argument is specified for '\$s'.**

### System action

Compilation terminated.

### Response

Option file is invalid. Correct the option file and re-execute. Refer to "-i (Specify an option file)" in "Compiling Programs" of the "NetCOBOL User's Guide".

---

## **Insufficient memory for the compilation. Compilation terminated.**

### System action

Compilation terminated.

### Response

There is not enough memory to compile. When multiple applications are run at the same time, shut them down and re-compile them. Or, increase virtual memory. Or, Install more memory.

# Chapter 2 COBOL Compiler Messages

This section explains diagnostic messages generated by the COBOL compiler.

## 2.1 Message Format

The following shows the message format:

```
message-number line-number message-text
```

### Message-number

Message number is displayed in the format:

```
JMNnnnnI-S
```

- JMN : Prefix indicates a COBOL compiler message.
- nnnn : Message serial number.
- I : Indicates that operator response is not required.
- S : Indicates the severity code.

Meanings of severity codes are explained in the table below.

### Line-number

The line number of the line containing an error is displayed. Messages indicating the same error information are displayed collectively. In this case, more than one line number is displayed.

The line number outputs to the compilation list is displayed as follows.

- If compile option NUMBER is enabled:

```
[COPY-qualification-value-]user-line-number
```

- If compile option NONNUMBER is enabled:

```
[COPY-qualification-value-]sequence-number-in-line-number
```

### Message-text

Explains the content of the error.

There is a problem in an environmental setting at compilation when the message text is "There is a mistake of the environment. Please refer to the documents that described about installation".

Please confirm installation instructions and set the environment correctly.

When message number is output, the content of the error can be confirmed referring to this manual.

Table 2.1 Severity codes of messages output by the COBOL compiler

Severity Code	Level	Meaning	Return Code
I (INFORMATION)	Informational message	Information that may be helpful to you. An executable program will be generated.	0
W (WARNING)	Warning error	An executable program will still be generated (unless more severe errors are encountered), however, the compiler has encountered a statement that you may need to check to confirm that the results are as expected.	

Severity Code	Level	Meaning	Return Code
E (ERROR)	Recoverable error	An error has been encountered that prevents the compiler from generating an executable program, but the compiler will continue to compile the program to report on any other errors.	1
S (SERIOUS)	Serious error	An error has been encountered that prevents the compiler from generating an executable program, but the compiler will continue to compile the program to report on any other errors.	2
U (UNRECOVERABLE)	Unrecoverable error	An error has been encountered that prevents the compiler from proceeding any further. Compilation is terminated.  An executable program will not be generated.	3

## 2.2 Message Details

---

Messages are listed in numeric order.

### 2.2.1 JMN0000 - JMN0999

---

0007	0010	0013	0015	0016	0020	0021	0022	0023	0024
0025	0026	0027	0028	0029	0030	0031	0032	0033	0034
0035	0036	0037	0058	0061	0063	0064	0065	0071	0072
0077	0092	0093	0094	0096	0097	0100	0102	0103	0124
0125	0126	0127	0129	0130	0131				

#### JMN0007I-U

---

**The source program file cannot be opened. Compilation terminated.**

##### Explanation

Recompile after resolving the problems causing the errors when "System error '\$s1' occurred on '\$s2'." is displayed in addition to this message.

#### JMN0010I-S

---

**The object program file cannot be opened. Compile option '@1@' is ignored.**

##### Parameter Explanation

@1@ : OBJECT

##### Explanation

Recompile after resolving the problems causing the errors when " System error '\$s1' occurred on '\$s2'. " is displayed in addition to this message.

#### JMN0013I-S

---

**The repository file cannot be opened. The object file cannot be used.**

## Explanation

Recompile after resolving the problems causing the errors when "System error '\$s1' occurred on '\$s2'." is displayed in addition to this message.

### JMN0015I-U

---

#### The @1@ file cannot be opened. Compilation terminated.

## Explanation

Recompile after resolving the problems causing the errors when " System error '\$s1' occurred on '\$s2'. " is displayed in addition to this message.

## Parameter Explanation

@1@ : PRINT, DEBUG, SAI

### JMN0016I-U

---

#### Insufficient main storage for the compilation. Compilation terminated.

## Explanation

There is not enough memory to compile. Check the compiler environment again. Troubleshooting tips:

- When multiple applications are run at the same time, shut them down and recompile them, or
- Increase virtual memory, or
- Install more memory

### JMN0020I-U

---

#### The source program file is empty. Compilation terminated.

### JMN0021I-E

---

#### The character '@1@' is invalid as a compile option name or delimiter. Skips to next delimiter.

## Parameter Explanation

@1@ : incorrect characters

## Example

```
[C0021.cob]
000001 @OPTIONS INVALID
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C0021.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE DIVISION.
000008 P-START.
000009 STOP RUN.
```

JMN0021I-E The character0 'INVALID' is invalid as a compile option name or delimiter. Skips to next delimiter.

### JMN0022I-E

---

#### The delimiter for compiler options is "," (comma), not " " (space). The space is assumed to be a delimiter.

### JMN0023I-E

---

#### A quotation mark in a subparameter of compile option '@1@' is unpaired. Compile option '@1@' ignored.

Parameter Explanation

@1@ : compiler option name

**JMN0024I-E**

---

**A subparameter of compile option '@1@' is invalid. Compile option '@1@' ignored.**

Parameter Explanation

@1@ : compiler option name

**JMN0025I-E**

---

**The format of a subparameter in compile option '@1@' is invalid. Compile option '@1@' ignored.**

Parameter Explanation

@1@ : compiler option name

Example

```
[C0026.cob]
000001 @OPTIONS INITVALUE(XX)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C0025.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE DIVISION.
000008 P-START.
000009 STOP RUN.
```

JMN0025I-E The format of a subparameter in compile option 'INITVALUE' is invalid. Compile option 'INITVALUE' ignored.

**JMN0026I-E**

---

**The length of a subparameter in compile option '@1@' is invalid. Compile option '@1@' ignored.**

Parameter Explanation

@1@ : compiler option name

Example

```
[C0026.cob]
000001 @OPTIONS LINECOUNT(1000)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C0026.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE DIVISION.
000008 P-START.
000009 STOP RUN.
```

JMN0026I-E The length of a subparameter in compile option 'LINECOUNT' is invalid. Compile option 'LINECOUNT' ignored.

**JMN0027I-E**

---

**The keyword of a subparameter in compile option '@1@' is invalid. Compile option '@1@' ignored.**

Parameter Explanation

@1@ : compiler option name

## Example

```
[C0027.cob]
000001 @OPTIONS MAIN(WMAIN)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C0027.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE DIVISION.
000008 P-START.
000009 STOP RUN.
```

JMN0027I-E The keyword of a subparameter in compile option 'MAIN' is invalid. Compile option 'MAIN' ignored.

## JMN0028I-E

---

**The value of a subparameter in compile option '@1@' is invalid. Compile option '@1@' ignored.**

### Parameter Explanation

@1@ : compiler option name

### Example

```
[C0028.cob]
000001 @OPTIONS LINESIZE(1000)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C0028.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION .
000007 PROCEDURE DIVISION.
000008 P-START.
000009 STOP RUN.
```

JMN0028I-E The value of a subparameter in compile option 'LINESIZE' is invalid. Compile option 'LINESIZE' is ignored.

## JMN0029I-E

---

**A right parenthesis is missing in a subparameter of compile option '@1@' or the subparameter is too long. Compile option '@1@' ignored.**

### Parameter Explanation

@1@ : compiler option name

### Example

```
[C0029.cob]
000001 @OPTIONS LANGLVL(85
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C0029.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE DIVISION.
000008 P-START.
000009 STOP RUN.
```

JMN0029I-E A right parenthesis is missing in a subparameter of compile option 'LANGLVL', or the subparameter is too long. Compile option 'LANGLVL' is ignored.

## JMN0030I-E

---

**Compile option '@1@' is missing the second subparameter. Compile option '@1@' ignored.**

Parameter Explanation

@1@ : compiler option name

**JMN0031I-W**

---

**Since compile option '@1@' is specified, '@2@' is assumed.**

Parameter Explanation

@1@ : compiler option name

@2@ : The assumed compiler option name. (Specifying compile option @1@ causes related option @2@ to be set automatically.)

Example

```
[C0031.cob]
000001 @OPTIONS CONF(68),LANGLVL(68)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C0031.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE DIVISION.
000008 P-START.
```

JMN0031I-W Since compile option 'LANGLVL(68)' is specified, 'NOCONF' is assumed.

**JMN0032I-I**

---

**Compiler option '@1@' has no meaning when compiling multiple source files. Compiler option '@1@' is ignored.**

Parameter Explanation

@1@ : compiler option name

**JMN0033I-W**

---

**Compile option '@1@' can only be specified in a program definition. Compile option @2@ is assumed.**

Parameter Explanation

@1@ : compiler option name

@2@ : The assumed compiler option name. (Specifying compile option @1@ causes related option @2@ to be set automatically.)

Example

```
[C0033.cob]
000001 @OPTIONS CONF(OBS)
000002 IDENTIFICATION DIVISION.
000003 CLASS-ID. C0033.
000004 OBJECT.
000005 DATA DIVISION.
000006 PROCEDURE DIVISION.
000007 METHOD-ID. M1.
000008 END METHOD M1.
000009 END OBJECT.
000010 END CLASS C0033.
```

C0033.cob 0: JMN0033I-W Compile option 'CONF(OBS)' can only be specified in a program definition. Compile option CONF is assumed.

## JMN0034I-S

---

**Compile option '@1@' can only be specified in a program definition. Compile option '@1@' is ignored.**

### Parameter Explanation

@1@ : compiler option name

### Example

```
[C0034.cob]
000001 @OPTIONS LANGLVL(74)
000002 IDENTIFICATION DIVISION.
000003 CLASS-ID. C0034.
000004 OBJECT.
000005 DATA DIVISION.
000006 PROCEDURE DIVISION.
000007 METHOD-ID. M1.
000008 END METHOD M1.
000009 END OBJECT.
000010 END CLASS C0034.
```

C0034.cob 0: JMN0034I-S Compile option 'LANGLVL(74)' can only be specified in a program definition. Compile option 'LANGLVL(74)' is ignored.

### Explanation

Refer to "Compiler Options That Can Be Specified in the Program Definition (Source Code) Only" in Appendix A of the "NetCOBOL User's Guide".

## JMN0035I-S

---

**The compile options used to compile the method definition must be the same as those used for the method prototype definition. The compile options specified are ignored.**

### Explanation

Refer to "Compiler Options for Method Prototype Definitions and Separated Method Definitions" in Appendix A of the "NetCOBOL User's Guide".

## JMN0036I-S

---

**The subparameter keyword specified in compile option '@1@' is not supported in this operating system. Compile option '@1@' ignored.**

### Parameter Explanation

@1@ : compiler option name

## JMN0037I-E

---

**Compile option '@1@' can only be specified in a class definition. Compile option '@1@' is ignored.**

### Parameter Explanation

@1@ : compiler option name

### Example

```
[C0037.cob]
000001 @OPTIONS CREATE(REP)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C0035.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
```



```
000007 PROCEDURE DIVISION.  
000008 P-START.  
000009 STOP RUN.
```

C0037.cob 0: JMN0037I-E Compile option 'CREATE(REP)' can only be specified in a class definition. Compile option 'CREATE(REP)' is ignored.

#### Explanation

CREATE(REP) can only be specified in a class definition.

#### JMN0058I-W

---

**Compiler option '@1@' cannot be specified with '@2@'. Compiler option '@1@' is ignored.**

#### Parameter Explanation

@1@ : compiler option name

@2@ : compiler option name

#### JMN0061I-E

---

**Compiler option '@1@' cannot be specified for the @2@ compiler directive statement. Compiler option '@1@' is ignored.**

#### Parameter Explanation

@1@ : compiler option name

@2@ : @OPTIONS

#### Example

```
[C0061.cob]  
000001 @OPTIONS SCS(ACP)  
000002 IDENTIFICATION DIVISION.  
000003 PROGRAM-ID. C0061.  
000004 ENVIRONMENT DIVISION.  
000005 DATA DIVISION.  
000006 WORKING-STORAGE SECTION.  
000007 PROCEDURE DIVISION.  
000008 P-START.  
000009 STOP RUN.
```

JMN0061I-E Compiler option 'SCS' cannot be specified for the @OPTIONS compiler directive statement. Compiler option 'SCS' is ignored.

#### Explanation

Refer to "Compiler Options" in Appendix A of the "NetCOBOL User's Guide" for the options that can be specified in a compiler directive statement.

#### JMN0063I-W

---

**Compiler option '@1@' is invalid for this compiler. Compiler option '@1@' is ignored.**

#### Parameter Explanation

@1@ : compiler option name

#### JMN0064I-W

---

**Compiler option '@1@' is obsolete. Compiler option '@2@' is assumed.**

Parameter Explanation

@1@ : compiler option name

@2@ : compiler option name

**JMN0065I-W**

---

**The compiler option cannot be determined from the '@1@' specified. Compiler option '@1@' is ignored.**

Parameter Explanation

@1@ : compiler option name

**JMN0071I-W**

---

**Compiler option '@1@' is not supported. Compiler option '@1@' is ignored.**

Parameter Explanation

@1@ : compiler option name

**JMN0072I-W**

---

**Compiler option '@1@' is obsolete, and is not used in the current system. Compiler option '@2@' is assumed.**

Parameter Explanation

@1@ : compiler option name

@2@ : The assumed compiler option name. (Specifying compile option @1@ causes related option @2@ to be set automatically.)

**JMN0077I-I**

---

**Compiler option '@1@' is obsolete and will be invalid in the next version.**

Parameter Explanation

@1@ : compiler option name

**JMN0092I-U**

---

**An I/O error occurred during access of source program file. The compilation was terminated.**

**JMN0093I-U**

---

**An I/O error occurred during access of object file. The compilation was terminated.**

**JMN0094I-U**

---

**An I/O error occurred during access of debugging information file. Compilation terminated.**

**JMN0096I-U**

---

**An I/O error occurred during access of source analysis information file. The compilation was terminated.**

**JMN0097I-U**

---

**An I/O error occurred during access of repository file. The compilation was terminated.**

**JMN0100I-U**

---

**A fatal compiler error has occurred. (substep-name=@1@, module-name=@2@, detail-code=@3@, line-number=@4@)**

## Parameter Explanation

@1@ : error detected substep name  
@2@ : error detected module name  
@3@ : detail code  
@4@ : line number

## Explanation

If other messages are displayed, resolve those issues and then recompile.

If above steps do not resolve the problem, a compiler failure could be the cause. Please open a support incident to obtain assistance from a supplier.

## JMN0102I-U

---

**The compilation process cannot be continued. If other diagnostic messages have been generated, correct those errors and try the compilation again. (substep-name=@1 @, module-name=@2 @, detail-code=@3 @, line-number=@4 @)**

## Parameter Explanation

@1@ : error detected substep name  
@2@ : error detected module name  
@3@ : detail code  
@4@ : line number

## Explanation

Compiler failure. Please open a support incident to obtain assistance from a supplier.

## JMN0103I-U

---

**There is insufficient memory due to the processing of a type library. (substep-name=@1 @)**

## Parameter Explanation

@1@ : error detected in the substep name

## Explanation

There are not enough memories to process type library. Please check the compiler environment again. Here are some troubleshooting follow.

When multiple applications are run at the same time, shut down and recompile them, or

- increase virtual memory, or
- installed more memory

## JMN0124I-U

---

**This source file has an invalid character. The compilation is terminated. (substep-name=@1 @, line-number=@2 @.)**

## Parameter Explanation

@1@ : error detected in the substep name  
@2@ : line number

## Explanation

These error messages are generated when the source program or copybook is created in Unicode (UTF-8). The cause and response are given below.

- Compilation option SCS(UTF8) was not specified.

Specify compilation option SCS(UTF8).

- When the length of one line exceeds the maximum length that is decided by the reference format.

The maximum length of a line is 251 bytes for variable-length format and free format, and 80 bytes for fixed-length format. This is the physical length, not display length.

When this error message is displayed during compilation, lines may be truncated due to the limitations mentioned above. Divide up the line and use a line continuation character.

#### JMN0125I-U

---

**The character set of the source program file or library text file is not the same as the system. The compilation is terminated.**

#### JMN0126I-S

---

**Compile option '@1@' cannot be specified with '@2@'. Compile option '@1@' is ignored.**

Parameter Explanation

@1@: compile option name

@2@: compile option name

#### JMN0127I-E

---

**Since compile option '@1@' is specified, '@2@' is assumed.**

Parameter Explanation

@1@ : compiler option name

@2@ : compiler option name

#### JMN0129I-I

---

**By specifying the compile option @1@, compile option @2@ gets enabled.**

Parameter Explanation

@1@ : compile option name

@2@ : derived compile option name

Explanation

This message is given when compile option ENCODE (UTF8, UTF16) or ENCODE (UTF8, UTF32) is defined explicitly or implicitly. Specify the NSP compile option after checking the handling of spaces related to national items. For details refer to the following.

- "NSP (handling of spaces related to national data item)" in Appendix A of the "NetCOBOL User's Guide"

#### JMN0130I-E

---

**Compile option '@1@' cannot be specified in the system locale set being used. Compile option '@1@' is ignored.**

Parameter Explanation

@1@ : compiler option name

#### JMN0131I-E

---

**In the current system locale, compile option '@1@' cannot be specified with '@2@'. Compiler option '@1@' is assumed to be '@3@'.**

## Parameter Explanation

@1@ :compile option name

@2@ :compile option name

@3@ :compile option name

## Explanation

The possible combination of compile option SCS and ENCODE depends on the system locale. Refer to "ENCODE (encoding form specification) / SCS (code system of source file)" in Appendix A of the NetCOBOL User's Guide for more details.

## 2.2.2 JMN1000 - JMN1999

---

1000	1001	1002	1003	1004	1005	1007	1008	1009	1010
1011	1012	1013	1014	1015	1016	1017	1018	1019	1020
1021	1022	1023	1024	1025	1026	1027	1028	1029	1040
1041	1042	1043	1044	1049	1050	1051	1052	1057	1061
1062	1073	1074	1075	1076	1080	1081	1082	1083	1084
1085	1086	1087	1092	1093	1096	1097	1099	1100	1101
1103	1104	1105	1107	1110	1111I	1113	1114	1115	1116
1117	1118	1119	1121	1123	1125	1126	1127	1128	1129
1130	1131	1132	1133	1134	1141	1142	1143	1144	1145
1146	1147	1148	1149	1150	1151	1154	1155	1156	1158
1159	1161	1162	1163	1164	1165	1166	1167	1183	1184
1185	1187	1188	1190	1193	1194	1195	1197	1198	1207
1208	1209	1213	1214	1215	1216	1217	1218	1219	1220
1221	1222	1223	1224	1225	1227	1228	1229	1231	1232
1233	1234	1236	1237	1238	1239	1240	1241	1242	1243
1244	1246	1253	1254	1255	1256	1257	1258	1259	1260
1261	1265	1266	1267	1268	1269	1271	1273	1275	1276
1278	1279	1280	1281	1282	1284	1285	1286	1287	1288
1291	1292	1294	1298	1299	1301	1302	1303	1304	1305
1306	1307	1308	1309	1310	1312	1313	1314	1315	1317
1318	1319	1320	1321	1322	1323	1324	1325	1326	1327
1329	1330	1338	1339	1340	1342	1343	1353	1354	1355
1356	1357	1358	1359	1360	1362	1363	1371	1373	1376
1377	1388	1390	1391	1393	1394	1395	1396	1397	1401
1402	1404	1405	1411	1412	1413	1414	1416	1418	1421
1423	1424	1425	1426	1427	1428	1434	1436	1437	1438
1439	1450	1464	1465	1466	1469	1472	1475	1476	1477
1478	1479	1480	1481	1482	1486	1487	1488	1489	1490
1500	1501	1502	1503	1504	1505	1506	1507	1508	1509
1510	1511	1512	1513	1514	1515	1516	1517	1518	1519
1520	1521	1522	1523	1524	1525	1526	1527	1528	1529
1530	1531	1532	1533	1534	1535	1538	1539	1540	1544
1545	1547	1551	1552	1553	1555	1556	1557	1558	1559

1560	1561	1562	1563	1566	1567	1568	1569	1570	1571
1572	1573	1574	1576	1578	1579	1580	1581	1582	1583
1584	1586	1588	1589	1591	1592	1593	1594	1596	1597
1599	1600	1604	1608	1615	1661	1662	1664	1665	1668
1670	1671	1672	1674	1675	1676	1677	1678	1681	1683
1684	1685	1686	1687	1688	1689	1690	1692	1693	1694
1695	1696	1697	1698	1699	1701	1703	1704	1705	1706
1707	1708	1710	1715	1716	1717	1718	1724	1725	1726
1735	1736	1738	1739	1741	1742	1744	1745	1746	1748
1749	1750	1751	1752	1753	1754	1755	1756	1757	1758
1759	1760	1761	1762	1763	1764	1765	1766	1767	1768
1769	1770	1771	1772	1773	1774	1775	1776	1778	1780
1781	1782	1783	1784	1785	1786	1788	1790	1802	1805
1813	1814	1819	1845	1847	1852	1853	1854	1855	1856
1857	1858	1859	1900	1903	1904	1905			

### JMN1000I-S

**A character that is excluded from the COBOL character set is used. That character is ignored.**

#### Example

```
[C1000.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P^1.
000003 END PROGRAM     P^1.
```

C1000.cob 2: JMN1000I-S A character that is excluded from the COBOL character set is used. That character is ignored.

C1000.cob 3: JMN1000I-S A character that is excluded from the COBOL character set is used. That character is ignored.

#### Explanation

Only characters from the COBOL character set can be used in user-defined words and system-names.

### JMN1001I-W

**A period, comma, or semicolon was not followed by a space. A space is assumed to follow the period, comma, or semicolon.**

#### Example

```
[C1001.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.C1001.
```

C1001.cob 2: JMN1001I-W A period, comma, or semicolon was not followed by a space. A space is assumed to follow the period, comma, or semicolon.

### JMN1002I-S

**COBOL words are limited to 30 characters each. The first 30 characters are used as the COBOL word.**

#### Example

```
[C1002.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1002.
```

```
000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 ABCDEFGHIJKLMNOPQRSTUVWXYZ01234 PIC X.
000006 END PROGRAM    C1002.
```

C1002.cob 5: JMN1002I-S COBOL words are limited to 30 characters each. The first 30 characters are used as the COBOL word.

## JMN1003I-W

**The reserved word '@1@' must start in Area A. The reserved word is assumed to start in Area A.**

### Parameter Explanation

@1@ : reserved word

### Example

```
[C1003.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1003.
000003 END PROGRAM     C1003.
```

C1003.cob 1: JMN1003I-W The reserved word 'IDENTIFICATION' must start in Area A. The reserved word is assumed to start in Area A.

C1003.cob 2: JMN1003I-W The reserved word 'PROGRAM-ID' must start in Area A. The reserved word is assumed to start in Area A.

C1003.cob 3: JMN1003I-W The reserved word 'END' must start in Area A. The reserved word is assumed to start in Area A.

## JMN1004I-W

**Reserved word '@1@' must start in Area B. The reserved word is assumed to start in Area B.**

### Parameter Explanation

@1@ : reserved word

### Example

```
[C1004.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1004.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006 SYMBOLIC CONSTANT
000007 NUM IS 10.
000008 END PROGRAM     C1004.
```

C1004.cob 6: JMN1004I-W Reserved word 'SYMBOLIC' must start in Area B. The reserved word is assumed to start in Area B.

## JMN1005I-W

**Character string '@1@' must start in Area B. The character string is assumed to start in Area B.**

### Parameter Explanation

@1@ : character-string(user-defined word, system-name, PICTURE character-string)

### Example

```
[C1005.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1005.
000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
```

```
000005 01 LEN PIC 9(2).
000006 END PROGRAM      C1005.
```

C1005.cob 4: JMN1005I-W Character string 'WORKING-STORAGE' must start in Area B. The character string is assumed to start in Area B.

## JMN1007I-S

**A national user-defined word exceeded the 30 character limit. Only the first 30 characters of the national user-defined word are used.**

### Example

```
[C1007.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1007.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 あいうえおかきくけこさしすせそたちつてとなにぬねのはひふへほま PIC X.
000006 END PROGRAM      C1007.
```

C1007.cob 5: JMN1007I-S A national user-defined word exceeded the 30 character limit. Only the first 30 characters of the national user-defined word are used.

## JMN1008I-S

**A character not in the national character set is used in a national user-defined word. '@1@' is the assumed national user-defined word.**

### Parameter Explanation

@1@ : national character

### Example

```
[C1008.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1008.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 睡泣          PIC X.
000006 END PROGRAM      C1008.
```

C1008.cob 5: JMN1008I-S A character not in the national character set is used in a national user-defined word. '睡' is the assumed national user-defined word.

### Explanation

National characters that are not in the COBOL character set are included in national language user-defined words. Specify compiler option NCW(SYS) when using extended characters. Refer to "Characters and Character Sets" in Chapter 1 of the "NetCOBOL Language Reference" and "NCW (Japanese-language character set specification for the user language)" in Appendix A of the "NetCOBOL User's Guide" for more details.

When the source file is UNICODE(UTF-8), characters may be located outside of "Plane 0" (BMP (Basic Multilingual Plane) area) if national language user-defined words are included. National language user-defined words can only be located in "Plane 0".

## JMN1009I-S

**The first character of a national user-defined word is not in the national character set. The national user-defined word is ignored.**

### Example

```
[C1009.cob]
000001 IDENTIFICATION DIVISION.
```



```

000002 PROGRAM-ID.      C1009.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 ^             PIC X.
000006 END PROGRAM      C1009.

```

C1009.cob 5: JMN1009I-S The first character of a national user-defined word is not in the national character set. The national user-defined word is ignored.

### Explanation

National characters that are not in the COBOL character set are included at beginning of the National language user-defined words. Specify compiler option NCW(SYS) when using extended characters. Refer to "Characters and Character Sets" in Chapter 1 of the "NetCOBOL Language Reference" and "NCW (Japanese-language character set specification for the user language)" in Appendix A of the "NetCOBOL User's Guide" for more details.

When the source file is UNICODE(UTF-8), characters may be located outside of "Plane 0" (BMP (Basic Multilingual Plane) area) if national language user-defined words are included. National language user-defined words can only be used in "Plane 0".

## JMN1010I-S

**A hyphen or minus symbol must not be the first or last character of a national user-defined word. National user-defined word '@1@' is ignored.**

### Parameter Explanation

@1@ : national language user-defined word

### Example

```

[C1010.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1010.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 あいー PIC X.
000006 END PROGRAM      C1010.

```

C1010.cob 5: JMN1010I-S A hyphen or minus symbol must not be the first or last character of a national user-defined word. National user-defined word 'あいー' is ignored.

## JMN1011I-S

**A national user-defined word must contain at least one kanji, hiragana, katakana or long tone symbol character. The national user-defined word '@1@' is ignored.**

### Parameter Explanation

@1@ : national language user-defined word

### Example

```

[C1011.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1011.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A B C PIC X.
000006 END PROGRAM      C1011.

```

C1011.cob 5: JMN1011I-S A national user-defined word must contain at least one kanji, hiragana, katakana or long tone symbol character. The national user-defined word 'ABC' is ignored.

## JMN1012I-S

---

**The exponent (following E) of the floating-point literal is invalid. The mantissa (preceding E) is assumed to be a numeric literal.**

Example

```
[C1012.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1012.
000003 PROCEDURE       DIVISION.
000004     DISPLAY +1234.11E-AA
000005 END PROGRAM     C1012.
```

C1012.cob 4: JMN1012I-S The exponent (following E) of the floating-point literal is invalid. The mantissa (preceding E) is assumed to be a numeric literal.

### JMN1013I-S

---

**The mantissa of the floating-point literal has exceeded the 16 digit limit. The first 16 digits are used as the mantissa.**

Example

```
[C1013.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1013.
000003 PROCEDURE       DIVISION.
000004     DISPLAY +1234567890123456.7E+01
000005 END PROGRAM     C1013.
```

C1013.cob 4: JMN1013I-S The mantissa of the floating-point literal has exceeded the 16 digit limit. The first 16 digits are used as the mantissa.

### JMN1014I-S

---

**The exponent of the floating-point literal has exceeded the two digit limit. The first two digits are used as the exponent.**

Example

```
[C1014.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1014.
000003 PROCEDURE       DIVISION.
000004     DISPLAY 12.34E+001
000005 END PROGRAM     C1014.
```

C1014.cob 4: JMN1014I-S The exponent of the floating-point literal has exceeded the two digit limit. The first two digits are used as the exponent.

### JMN1015I-S

---

**The absolute value of the floating-point literal is less than minimum value (exponent underflow). The value of the floating-point literal is assumed to be zero.**

Example

```
[C1015.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1015.
000003 PROCEDURE       DIVISION.
000004     DISPLAY 54000000000000.0E-99
000005 END PROGRAM     C1015.
```

C1015.cob 4: JMN1015I-S The absolute value of the floating-point literal is less than minimum value (exponent underflow). The value of the floating-point literal is assumed to be zero.

### JMN1016I-S

---

**The absolute value of the floating-point literal is greater than the maximum value (exponent overflow). The absolute value of the floating-point literal is assumed to be 7.2E75.**

Example

```
[C1016.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1016.
000003 PROCEDURE       DIVISION.
000004     DISPLAY +720000000000000.0E+99
000005 END PROGRAM     C1016.
```

C1016.cob 4: JMN1016I-S The absolute value of the floating-point literal is greater than the maximum value (exponent overflow). The absolute value of the floating-point literal is assumed to be 7.2E75.

### JMN1017I-S

---

**The numeric literal has exceeded the @1@ digit limit. The first @1@ digits are used as the numeric literal.**

Parameter Explanation

@1@ : maximum digit of numeric literal

Example

```
[C1017.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1017.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.
000005 78 NUM-1 VALUE 12345678901234567890.
000006 END PROGRAM     C1017.
```

C1017.cob 5: JMN1017I-S The numeric literal has exceeded the 19 digit limit. The first @1@ digits are used as the numeric literal.

### JMN1018I-S

---

**The PICTURE character string has exceeded the 50 character limit. The first 50 characters are used as the PICTURE character string.**

Example

```
[C1018.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1018.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 CHR PIC XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX.
000006 END PROGRAM     C1018.
```

C1018.cob 5: JMN1018I-S The PICTURE character string has exceeded the 50 character limit. The first 50 characters are used as the PICTURE character string.

### JMN1019I-W

---

**The indicator area must contain '-', '\*', '/', 'D', or blank. A blank is assumed to be specified.**

## Example

```
[C1019.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1019.
000003 *COMMENT
000004+
000005 END PROGRAM      C1019.
```

C1019.cob 4: JMN1019I-W The indicator area must contain '-', '\*', '/', 'D', or blank. A blank is assumed to be specified.

## JMN1020I-W

**The literal must start in Area B. The literal is assumed to start in Area B.**

### Example

```
[C1020.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1020.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 CHRLIT PIC X(10) VALUE
000006 "ABCDEFGHJIJ".
000007 END PROGRAM      C1020.
```

C1020.cob 6: JMN1020I-W The literal must start in Area B. The literal is assumed to start in Area B.

## JMN1021I-S

**The continuation line of the literal must have a hyphen in the indicator area and must start with a quotation mark. The continuation of the literal is assumed.**

### Example

```
[C1021.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1021.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A1 PIC X(10) VALUE "12345
000006-        67890".
000007 01 A2 PIC X(10) VALUE "12345
000008        "67890".
000009 END PROGRAM      C1021.
```

C1021.cob 6: JMN1021I-S The continuation line of the literal must have a hyphen in the indicator area and must start with a quotation mark. The continuation of the literal is assumed.

C1021.cob 8: JMN1021I-S The continuation line of the literal must have a hyphen in the indicator area and must start with a quotation mark. The continuation of the literal is assumed.

## JMN1022I-S

**The ending quotation mark of the literal is missing. The characters at the end of Area B are assumed to be a literal.**

### Example

```
[C1022.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1022.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
```

```
000005 01 TEISU PIC X(10) VALUE "ABCDEF.  
000006 END PROGRAM C1022.
```

C1022.cob 5: JMN1022I-S The ending quotation mark of the literal is missing. The characters at the end of Area B are assumed to be a literal.

## JMN1023I-S

**The literal has exceeded the maximum length. The first x characters is assumed to be the literal.**

### Example

```
[C1023.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1023.  
000003 DATA DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005 78 MOJI VALUE "ABCDEFGHIJKLMNOPQRSTUVWXYZ  
000006- "ABCDEFGHIJKLMNOPQRSTUVWXYZ  
000007- "ABCDEFGHIJKLMNOPQRSTUVWXYZ  
000008- "ABCDEFGHIJKLMNOPQRSTUVWXYZ  
000009- "ABCDEFGHIJKLMNOPQRSTUVWXYZ  
000010- "ABCDEFGHIJKLMNOPQRSTUVWXYZ  
000011- "ABCDEFGHIJKLMNOPQRSTUVWXYZ  
000012- "ABCDEFGHIJKLMNOPQRSTUVWXYZ ".  
000013 END PROGRAM C1023.
```

C1023.cob 5: JMN1023I-S The literal has exceeded the maximum length. The first x characters is assumed to be the literal.

### Explanation

The maximum length of the literal is 160 bytes. The literal length must be a range in 1-160 bytes.

## JMN1024I-S

**Nonnumeric literals and hexadecimal nonnumeric literals must be greater than zero in length. A space is assumed.**

### Example

```
[C1024.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1024.  
000003 DATA DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005 01 CHAR1 PIC X VALUE X" ".  
000006 01 CHAR2 PIC X VALUE " ".  
000007 END PROGRAM C1024.
```

C1024.cob 5: JMN1024I-S Nonnumeric literals and hexadecimal nonnumeric literals must be greater than zero in length. A space is assumed.

C1024.cob 6: JMN1024I-S Nonnumeric literals and hexadecimal nonnumeric literals must be greater than zero in length. A space is assumed.

## JMN1025I-S

**Boolean literals must be greater than zero in length. It is assumed to be a literal containing the single digit '0'.**

### Example

```
[C1025.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1025.
```

```

000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 BOOL1 PIC X(1) VALUE B" ".
000006 END PROGRAM    C1025.

```

C1025.cob 5: JMN1025I-S Boolean literals must be greater than zero in length. It is assumed to be a literal containing the single digit '0'.

## JMN1026I-S

**National literals must be greater than zero in length. It is assumed to be a space.**

Example

```

[C1026.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     C1026.
000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 NCHAR PIC N(1) VALUE N" ".
000006 END PROGRAM    C1026.

```

C1026.cob 5: JMN1026I-S National literals must be greater than zero in length. It is assumed to be a space.

## JMN1027I-S

**A Boolean literal must consist of the Boolean characters 0 or 1. Characters other than 0 or 1 are assumed to be zeros.**

Example

```

[C1027.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     C1027.
000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 BOOL-1 PIC 1(8) VALUE B"00012000".
000006 END PROGRAM    C1027.

```

C1027.cob 5: JMN1027I-S A Boolean literal must consist of the Boolean characters 0 or 1. Characters other than 0 or 1 are assumed to be zeros.

## JMN1028I-S

**Hexadecimal nonnumeric literals must be an even number of characters. A zero is added at the end to make an even number of characters.**

Example

```

[C1028.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     C1028.
000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 CHAR1 PIC X(2) VALUE X"313".
000006 END PROGRAM    C1028.

```

C1028.cob 5: JMN1028I-S Hexadecimal nonnumeric literals must be an even number of characters. A zero is added at the end to make an even number of characters.

## JMN1029I-S

**@1@ must consist of hexadecimal characters (0 through 9 and A through F). Characters other than hexadecimal characters are assumed to be zero.**

## Parameter Explanation

@1@ : literal name

## Example

```
[C1029.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1029.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 CHAR1 PIC X(1) VALUE X"AZ".
000006 01 NUM1 PIC 9 VALUE H"AZ".
000007 END PROGRAM     C1029.
```

C1029.cob 5: JMN1029I-S Hexadecimal non-numeric literal must consist of hexadecimal characters (0 through 9 and A through F). Characters other than hexadecimal characters are assumed to be zero.

C1029.cob 6: JMN1029I-S Hexadecimal numeric literal must consist of hexadecimal characters (0 through 9 and A through F). Characters other than hexadecimal characters are assumed to be zero.

## JMN1040I-S

---

**The length of the national hexadecimal literal must be a multiple of @1@. The literal is truncated to render it a multiple of @1@.**

## Parameter Explanation

@1@ : 2, 4

## Example

```
[C1040.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1040.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 NHEX          PIC N(4) VALUE NX"93FA967B8C".
000007 PROCEDURE       DIVISION.
000008 END PROGRAM     C1040.
```

C1040.cob 6: JMN1040I-S The length of the national hexadecimal literal must be a multiple of 4. The literal is truncated to render it a multiple of 4.

## JMN1041I-W

---

**A separator must follow the character string. A separator after the character string is assumed.**

## Example

```
[C1041.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1041.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 LITERAL1 PIC X VALUE A".
000006 END PROGRAM     C1041.
```

C1041.cob 5: JMN1041I-W A separator must follow the character string. A separator after the character string is assumed.

## JMN1042I-S

---

**A character string that is continued on multiple lines is limited to 324 characters. The character string is assumed to be comprised of the first 324 characters.**

**Example**

```
[C1042.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1042.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 78  ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
000006-  ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
000007-  ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
000008-  ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
000009-  ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
000010-  ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
000011-  ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
000012-  ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
000013-  ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
000014-  ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
000015-  ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789 VALUE ZERO.
000016 END PROGRAM      C1042.
```

C1042.cob 14: JMN1042I-S A character string that is continued on multiple lines is limited to 324 characters. The character string is assumed to be comprised of the first 324 characters.

**JMN1043I-S**

---

**Area A of the continuation line must be blank, or the character-string that is presented across continuation lines is an invalid word in COBOL. The hyphen in the indicator area is ignored.**

**Example**

```
[C1043.cob]
000001 PROGRAM-ID.      C1043.
000002 DATA            DIVISION.
000003 WORKING-STORAGE SECTION.
000004 01  CHAR1  PIC 9(10) VALUE 12345
000005-67890.
000006 END PROGRAM      C1043.
```

C1043.cob 5: JMN1043I-S Area A of the continuation line must be blank, or the character-string that is presented across continuation lines is an invalid word in COBOL. The hyphen in the indicator area is ignored.

**JMN1044I-S**

---

**The program contained within program '@1@' must end with an end program header. An end program header is assumed.**

**Parameter Explanation**

@1@ : program-name

**Example**

```
[C1044.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1044.
000003 IDENTIFICATION DIVISION.
000004 PROGRAM-ID.      P1.
000005 PROCEDURE        DIVISION.
000006     STOP RUN.
000007 END PROGRAM      C1044.
```



C1044.cob 7: JMN1044I-S The program contained within program 'C1044' must end with an end program header. An end program header is assumed.

#### Explanation

There is not an end program header of an internal program of the program shown in @1@.

Please add the end program header of an internal program.

#### JMN1049I-S

---

**The end program header does not contain a period or it contains an invalid word.**

#### Example

```
[C1049.cob]
000001 PROGRAM-ID.    C1049.
000002 END PROGRAM   C1049
```

C1049.cob 2: JMN1049I-S The end program header does not contain a period or it contains an invalid word.

#### JMN1050I-S

---

**The end program header does not have a program-name.**

#### Example

```
[C1050.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    C1050.
000003 END PROGRAM.
```

C1050.cob 3: JMN1050I-S The end program header does not have a program-name.

#### JMN1051I-S

---

**A character string occurs after the end program header that is not part of another program. The character string is ignored.**

#### Example

```
[C1051.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    C1051.
000003 END PROGRAM   C1051. ABC
[P1.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P1.
000003 END PROGRAM   P1.
```

C1051.cob 3: JMN1051I-S A character string occurs after the end program header that is not part of another program. The character string is ignored.

#### JMN1052I-S

---

**Source program must not appear after the end program header of outermost program in library text.**

#### Explanation

There is a word not related with other programs after the end program header that exists in the library text.

#### JMN1057I-S

---

**An I/O error occurred while processing the COBOL library text. Processing of the library text was terminated.**

## Explanation

There was an I/O error when attempting to read a COBOL COPY library, so that no (more) text from that library is included. Possible reasons:

- There is no reading access permit of the COBOL library file.
- When the character-code of the source program is Unicode(UTF-8), the character outside the Shift JIS range is used in the text-name literal.

## JMN1061I-S

### The library text cannot include itself.

#### Example

```
[C1061.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1061.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 COPY C1061C.
[C1061C.cbl]
000001 COPY C1061C.
000002 END PROGRAM C1061.
```

C1061C.cbl 1: JMN1061I-S The library text cannot include itself.

## JMN1062I-S

### The COBOL library '@1@' could not be found, or the library has an invalid organization or record format.

#### Parameter Explanation

@1@ : COBOL library

#### Example

```
[C1062.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1062.
000003     COPY COPY1.
000004 END PROGRAM      C1062.
```

C1062.cob 3: JMN1062I-S The COBOL library 'COPY1' could not be found, or the library has an invalid organization or record format.

## Explanation

The following are the most likely causes of this error message:

- The specified library does not exist or could not be found. Check the following settings to ensure that they are pointing the compiler to the correct folder(s):
  - Specification of COBOL library name and position: Environment variable COB\_library-name, Setting of COBOL library name with compiler option file
  - PATH to COBOL library file: Command Option -I, Compiler option LIB, Environment variable COB\_COBCOPY
- The library name is wrong. Check the following setting to ensure it defines the extension(s) you are using for your copy libraries.
  - Extension of COBOL library file: Compiler option LIBEXT, Environment variable COB\_LIBSUFFIX
- The file specified in a "COPY filename OF XMDLIB" statement is not a PowerFORM descriptor file.

## JMN1073I-S

---

**Program '@1@' specified in the end program header is missing. The end program header uses the last unterminated program.**

Parameter Explanation

@1@ : program-name

Example

```
[C1073.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1073.
000003 END PROGRAM     C10731.
```

C1073.cob 3: JMN1073I-S Program 'C10731' specified in the end program header is missing. The end program header uses the last unterminated program.

### JMN1074I-S

---

**The @1@ statement cannot be specified in library text referenced by a COPY statement with a REPLACING or JOINING phrase.**

Parameter Explanation

@1@ : COPY,INCLUDE

Example

```
[C1074.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1074.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 COPY C1074C REPLACING ==DATA== BY ==COPY C1074CC.==.
000006 END PROGRAM C1074.
[C1074C.cbl]
000001 DATA
```

C1074C.cbl 1: JMN1074I-S The COPY statement cannot be specified in library text referenced by a COPY statement with a REPLACING or JOINING phrase.

Explanation

The source text manipulation replaced with the COPY statement or the INCLUDE statement is impossible.

### JMN1075I-S

---

**Word @1@ must be preceded by a space and followed by a space.**

Parameter Explanation

@1@ : COPY,INCLUDE,REPLACE

Example

```
[C1075.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1075.
000003 .REPLACE A BY B.
000004 REPLACE OFF.
000005 END PROGRAM     C1075.
```

C1075.cob 3: JMN1075I-S Word REPLACE must be preceded by a space and followed by a space.

### JMN1076I-S

---

**The @1@ statement is invalid, or the separator period is missing.**

Parameter Explanation

@1@ : COPY,INCLUDE

Example

```
[C1076.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1076.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     COPY CBLCPY REPLACING A BY B
000006 END PROGRAM      C1076.
```

C1076.cob 6: JMN1076I-S The COPY statement is invalid, or the separator period is missing.

### JMN1080I-W

---

**A pseudo-text-1 is used that has no text words, or only contains a separator comma and separator semicolon. That pseudo-text-1 is not used as replace object.**

Example

```
[C1080.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1080.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 COPY C1080C REPLACING ==,== BY ==:==.
[C1080C.cbl]
000001 01 WK-DATA      PIC X.
```

C1080.cob 5: JMN1080I-W A pseudo-text-1 is used that has no text words, or only contains a separator comma and separator semicolon. That pseudo-text-1 is not used as replace object.

### JMN1081I-S

---

**The period of the @1@ statement must be followed by a space.**

Parameter Explanation

@1@ : COPY,INCLUDE,REPLACE

Example

```
[C1081.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1081.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     REPLACE ==A== BY ==B==.
000006 01 A PIC X.
000007     REPLACE OFF.A
000008 END PROGRAM      C1081.
```

C1081.cob 7: JMN1081I-S The period of the REPLACE statement must be followed by a space.

### JMN1082I-S

---

**The REPLACE statement must be preceded by a separator period.**

## Example

```
[C1082.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1082.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION
000005     REPLACE A BY B.
000006     REPLACE OFF.
000007 END PROGRAM      C1082.
```

C1082.cob 5: JMN1082I-S The REPLACE statement must be preceded by a separator period.

## JMN1083I-S

---

**The REPLACE statement is invalid or a separator period is missing.**

### Example

```
[C1083.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1083.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     REPLACE A A BY B.
000006     REPLACE OFF
000007 END PROGRAM      C1083.
```

C1083.cob 5: JMN1083I-S The REPLACE statement is invalid or a separator period is missing.

C1083.cob 7: JMN1083I-S The REPLACE statement is invalid or a separator period is missing.

## JMN1084I-I

---

**The REPLACE statement corresponding to the REPLACE OFF statement is missing.**

### Example

```
[C1084.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1084.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     REPLACE OFF.
000006 END PROGRAM      C1084.
```

C1084.cob 5: JMN1084I-I The REPLACE statement corresponding to the REPLACE OFF statement is missing.

## JMN1085I-S

---

**An open or close error occurred in the AIM directory data set. The AIM spread record area and special register 'FCOM' are not reserved.**

### Example

```
[C1085.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1085.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION     SECTION.
000005 SUBSCHEMA-NAME.    "SUB01".
000006 END PROGRAM      C1085.
```

C1085.cob 5: JMN1085I-S An open or close error occurred in the AIM directory data set. The AIM spread record area and special register 'FCOM' are not reserved.

## Explanation

The specified subschema descriptor file does not exist or could not be found. Check the setting of the following,os4g compiler options to ensure that they are pointing the compiler to the correct folder(s):

- AIMLIB

## JMN1086I-S

---

**The subschema specified in the SUBSCHEMA-NAME paragraph is missing in the AIM directory data set. The SUBSCHEMA-NAME paragraph is ignored.**

### Example

```
[C1086.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1086.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SUBSCHEMA-NAME. "SUB01".
000006 END PROGRAM     C1086.
```

C1086.cob 5: JMN1086I-S The subschema specified in the SUBSCHEMA-NAME paragraph is missing in the AIM directory data set. The SUBSCHEMA-NAME paragraph is ignored.

## Explanation

The specified subschema descriptor file does not exist or could not be found. Check the setting of the following,os4g compiler options to ensure that they are pointing the compiler to the correct folder(s):

- AIMLIB

## JMN1087I-W

---

**The @1@ statement must start in Area B. The statement is assumed to start in Area B.**

### Parameter Explanation

@1@ : AQL,SQL

### Example

```
[C1087.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1087.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01  SQLSTATE PIC X(5).
000007     EXEC SQL END DECLARE SECTION END-EXEC.
000008 PROCEDURE          DIVISION.
000009     EXEC SQL
000010     SELECT A
000011     END-EXEC
000012 END PROGRAM         C1087.
```

C1087.cob 10: JMN1087I-W The SQL statement must start in Area B. The statement is assumed to start in Area B.

## JMN1092I-S

---

**The first word of the library text copied by a COPY statement after a level 01 or 77 item must be '01' or '77'. The compilation continues.**

## JMN1093I-S

---

The text generated by a REPLACE statement execution contains a REPLACE statement.

Example

```
[C1093.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1093.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     REPLACE  ==A== BY ==REPLACE==.
000006     A OFF.
000007     REPLACE OFF.
000008 END PROGRAM      C1093.
```

C1093.cob 6: JMN1093I-S The text generated by a REPLACE statement execution contains a REPLACE statement.

Explanation

The source text manipulation replaced with the REPLACE statement is impossible.

**JMN1096I-I**

---

(CONF)The COPY statement is specified after a level 01 or 77 item.

Example

```
[C1096.cob]
000001 @OPTIONS CONF(68)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C1096.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 COPY C1096C.
000007 END PROGRAM C1096.
[C1096C.cbl]
000001     WNAME     PIC X(10).
```

C1096.cob 6: JMN1096I-I (CONF)The COPY statement is specified after a level 01 or 77 item.

**JMN1097I-I**

---

(CONF)Only '\*' is specified as pseudo-text-1 in the COPY statement.

Example

```
[C1097.cob]
000001 @OPTIONS CONF(V10)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C1097.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 COPY C1097C REPLACING ==*== BY == ==.
000007 END PROGRAM C1097.
[C1097C.cbl]
000001*01 WNAME1     PIC X(10).
000002*01 WNAME2     PIC X(10).
```

C1097.cob 6: JMN1097I-I (CONF)Only '\*' is specified as pseudo-text-1 in the COPY statement.

**JMN1099I-I**

---

When the NONUMBER option is specified, diagnostic messages relating to COPY statements display the line number of the REPLACE statement rather than that of the COPY statement. Use the NUMBER option to get the exact line number of invalid COPY statements.

## Example

```
[C1099.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1099.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 DATA-SS PIC X(3) VALUE "NG!".
000006 01 DATA-DD PIC X(3) VALUE "OK!".
000007 PROCEDURE       DIVISION.
000008     REPLACE ==DATA-SS== BY ==DATA-DD==.
000009     COPY "C1099C.CBL"
000010     REPLACE OFF
000011     .
000012 END PROGRAM C1099.
```

C1099.cob 8: JMN1099I-I When the NONNUMBER option is specified, diagnostic messages relating to COPY statements display the line number of the REPLACE statement rather than that of the COPY statement. Use the NUMBER option to get the exact line number of invalid COPY statements.

## JMN1100I-W

---

**The word 'DIVISION' or 'SECTION' is missing. 'DIVISION' or 'SECTION' is assumed to be coded.**

### Example

```
[C1100.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1100.
000003 DATA.
000004 END PROGRAM      C1100.
```

C1100.cob 3: JMN1100I-W The word 'DIVISION' or 'SECTION' is missing. 'DIVISION' or 'SECTION' is assumed to be coded.

## JMN1101I-S

---

**In programs included in other programs, the APPLY SAVED-AREA clause must have the ON phrase, and the APPLY MULTICONVERSATION-MODE clause must include a file-name.**

### Example

```
[C1101.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1101.
000003 IDENTIFICATION DIVISION.
000004 PROGRAM-ID.      P1.
000005 ENVIRONMENT      DIVISION.
000006 INPUT-OUTPUT     SECTION.
000007   I-O-CONTROL.
000008     APPLY SAVED-AREA
000009     APPLY MULTICONVERSATION-MODE.
000010 END PROGRAM      P1.
000011 END PROGRAM      C1101.
```

C1101.cob 9: JMN1101I-S In programs included in other programs, the APPLY SAVED-AREA clause must have the ON phrase, and the APPLY MULTICONVERSATION-MODE clause must include a file-name.

### Explanation

In internal program, the APPLY SAVED-AREA clause must have the ON phrase, and the APPLY MULTICONVERSATION-MODE clause must include a file-name.

## JMN1103I-W



---

**The period is missing. The period is assumed to be coded.**

Example

```
[C1103.cob]
000001 IDENTIFICATION DIVISION
000002 PROGRAM-ID      C1103
000003 ENVIRONMENT     DIVISION
000004 CONFIGURATION   SECTION
000005 FILE            SECTION
000006 DATA           DIVISION
000007 BASED-STORAGE   SECTION
000008 WORKING-STORAGE SECTION
000009 CONSTANT       SECTION
000010 END PROGRAM     C1103
```

C1103.cob 1: JMN1103I-W The period is missing. The period is assumed to be coded.  
C1103.cob 3: JMN1103I-W The period is missing. The period is assumed to be coded.  
C1103.cob 4: JMN1103I-W The period is missing. The period is assumed to be coded.  
C1103.cob 6: JMN1103I-W The period is missing. The period is assumed to be coded.  
C1103.cob 7: JMN1103I-W The period is missing. The period is assumed to be coded.  
C1103.cob 8: JMN1103I-W The period is missing. The period is assumed to be coded.  
C1103.cob 9: JMN1103I-W The period is missing. The period is assumed to be coded.

#### JMN1104I-S

---

**The PROGRAM-ID paragraph is missing. The program-name is generated by the system.**

Example

```
[C1104.cob]
000001 IDENTIFICATION DIVISION.
000002 ENVIRONMENT     DIVISION.
000003 DATA           DIVISION.
000004 PROCEDURE       DIVISION.
000005 END PROGRAM     C1104.
```

C1104.cob 2: JMN1104I-S The PROGRAM-ID paragraph is missing. The program-name is generated by the system.

#### JMN1105I-W

---

**The PROGRAM-ID paragraph must be the first paragraph in the IDENTIFICATION DIVISION. The PROGRAM-ID paragraph is assumed to be the first paragraph in the IDENTIFICATION DIVISION.**

Example

```
[C1105.cob]
000001 IDENTIFICATION DIVISION.
000002 DATE-COMPILED.  20040402.
000003 PROGRAM-ID.    C1105.
000004 END PROGRAM     C1105.
```

C1105.cob 3: JMN1105I-W The PROGRAM-ID paragraph must be the first paragraph in the IDENTIFICATION DIVISION. The PROGRAM-ID paragraph is assumed to be the first paragraph in the IDENTIFICATION DIVISION.

#### JMN1107I-S

---

**An invalid character-string is specified in the program-id, or the program-id is missing. The program-name of the next paragraph or division is used.**

## Example

```
[C1107.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      1107.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 PROCEDURE       DIVISION.
000006 END PROGRAM     1107.
```

C1107.cob 2: JMN1107I-S An invalid character-string is specified in the program-id, or the program-id is missing. The program-name of the next paragraph or division is used.

## Explanation

Please follow the rule of the user-defined word about the program-name.

## JMN1110I-S

---

**'COMMON' can only be specified for internal programs.**

## Example

```
[C1110.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     C1110 COMMON.
000003 END PROGRAM     C1110.
```

C1110.cob 2: JMN1110I-S 'COMMON' can only be specified for internal programs.

## JMN1111I-S

---

**The program-name '@1@' is already specified in another PROGRAM-ID paragraph or ENTRY statement. Program-name '@1@' ignored.**

## Parameter Explanation

@1@ : program-name

## Example

```
[C1111.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     C1111.
000003 IDENTIFICATION DIVISION.
000004 PROGRAM-ID.     C1111.
000005 END PROGRAM     C1111.
000006 END PROGRAM     C1111.
```

C1111.cob 4: JMN1111I-S The program-name 'C1111' is already specified in another PROGRAM-ID paragraph or ENTRY statement. Program-name 'C1111' ignored.

## JMN1113I-S

---

**CONFIGURATION SECTION cannot be specified in an internal program.**

## Example

```
[C1113.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     C1113.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005     SPECIAL-NAMES.
000006     SYMBOLIC CONSTANT
```

```

000007      NUM1 IS 1234.
000008 IDENTIFICATION  DIVISION.
000009 PROGRAM-ID.     P1.
000010 ENVIRONMENT     DIVISION.
000011 CONFIGURATION   SECTION.
000012 END PROGRAM     P1.
000013 END PROGRAM     C1113.

```

C1113.cob 11: JMN1113I-S CONFIGURATION SECTION cannot be specified in an internal program.

## JMN1114I-S

**The CONFIGURATION SECTION must be specified before the INPUT-OUTPUT SECTION.**

Example

```

[C1114.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1114.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 CONFIGURATION   SECTION.
000006 END PROGRAM     C1114.

```

C1114.cob 5: JMN1114I-S The CONFIGURATION SECTION must be specified before the INPUT-OUTPUT SECTION.

## JMN1115I-S

**The CONFIGURATION SECTION or INPUT-OUTPUT SECTION is already specified.**

Example

```

[C1115.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1115.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 CONFIGURATION   SECTION.
000006 INPUT-OUTPUT    SECTION.
000007 INPUT-OUTPUT    SECTION.
000008 END PROGRAM     C1115.

```

C1115.cob 5: JMN1115I-S The CONFIGURATION SECTION or INPUT-OUTPUT SECTION is already specified.

C1115.cob 7: JMN1115I-S The CONFIGURATION SECTION or INPUT-OUTPUT SECTION is already specified.

## JMN1116I-S

**Each paragraph of the CONFIGURATION SECTION or INPUT-OUTPUT SECTION is already specified.**

Example

```

[C1116.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1116.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005     SPECIAL-NAMES.
000006     SPECIAL-NAMES.
000007 INPUT-OUTPUT    SECTION.
000008     FILE-CONTROL.
000009     FILE-CONTROL.
000010 END PROGRAM     C1116.

```

C1116.cob 6: JMN1116I-S Each paragraph of the CONFIGURATION SECTION or INPUT-OUTPUT SECTION is already specified.

C1116.cob 9: JMN1116I-S Each paragraph of the CONFIGURATION SECTION or INPUT-OUTPUT SECTION is already specified.

### JMN1117I-S

**A FILE-CONTROL paragraph or SELECT clause must be specified before the I-O-CONTROL paragraph.**

Example

```
[C1117.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1117.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 I-O-CONTROL.
000006 FILE-CONTROL.
000007 END PROGRAM     C1117.
```

C1117.cob 6: JMN1117I-S A FILE-CONTROL paragraph or SELECT clause must be specified before the I-O-CONTROL paragraph.

### JMN1118I-W

**The CONFIGURATION SECTION header is missing. The header is assumed to be coded.**

Example

```
[C1118.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1118.
000003 ENVIRONMENT     DIVISION.
000004 SPECIAL-NAMES.
000005 END PROGRAM     C1118.
```

C1118.cob 4: JMN1118I-W The CONFIGURATION SECTION header is missing. The header is assumed to be coded.

### JMN1119I-W

**The INPUT-OUTPUT SECTION header is missing. The header is assumed to be coded.**

Example

```
[C1119.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1119.
000003 ENVIRONMENT     DIVISION.
000004 FILE-CONTROL.
000005 END PROGRAM     C1119.
```

C1119.cob 4: JMN1119I-W The INPUT-OUTPUT SECTION header is missing. The header is assumed to be coded.

### JMN1121I-S

**The syntax of the '@1@' clause is invalid, or the symbolic constant '@2@' is undefined.**

Parameter Explanation

@1@ : Clause for which a symbolic constant can be specified

@2@ : Undefined symbolic constant

Example

```
[C1121.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1121.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
```

```

000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN TO SYS000.
000007 DATA          DIVISION.
000008 FILE           SECTION.
000009 FD  IN-F REPORT RP-F.
000010 REPORT        SECTION.
000011 RD  RP-F PAGE LIMIT IS CON1.
000012 01  RP1 TYPE RH.
000013 END PROGRAM   C1121.

```

C1121.cob 11: JMN1121I-S The syntax of the 'PAGE' clause is invalid, or the symbolic constant 'CON1' is undefined.

## JMN1123I-S

**An invalid word '@1@' was found. The invalid word and any following code is ignored until the next valid paragraph, section or division.**

### Parameter Explanation

@1@ : Word which cannot be recognized

### Example

```

[C1123.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     C1123.
000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01  DATA1 PIC X(5). END
000006 PROCEDURE       DIVISION.
000007     MOVE "ABC" TO DATA1
000008 END PROGRAM     C1123.

```

C1123.cob 5: JMN1123I-S An invalid word 'END' was found. The invalid word and any following code is ignored until the next valid paragraph, section or division.

### Explanation

A word is included that does not follow the syntax format. Refer to the "NetCOBOL Language Reference" and correct the format. In addition, the compiler does not allow combining half size characters and full size characters. When half size and full size characters are combined in user-defined words, only the first block of same-size characters are recognized in row. Therefore, this message may be displayed at the point in the word where a different sized character is used.

```
ex. 01 A B CABC  PIC X. *> JMN1123I-S An invalid word "ABC" was found.
```

## JMN1125I-S

**The @1@ clause is already specified.**

### Parameter Explanation

@1@ : clause name

### Example

```

[C1125.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     C1125.
000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01  DATA1 PIC 9(4) PIC X(5).
000006 01  DATA2 PIC 9(4) VALUE 1234 VALUE 5678.
000007 END PROGRAM     C1125.

```

C1125.cob 5: JMN1125I-S The PIC clause is already specified.

C1125.cob 6: JMN1125I-S The VALUE clause is already specified.

### JMN1126I-S

---

**A file-name must be specified in the SELECT clause.**

Example

```
[C1126.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1126.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006 SELECT ASSIGN TO A.
000007 END PROGRAM     C1126.
```

C1126.cob 6: JMN1126I-S A file-name must be specified in the SELECT clause.

### JMN1127I-S

---

**The syntax of the @1@ clause is invalid.**

Parameter Explanation

@1@ : clause name

Example

```
[C1127.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1127.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 DATA1 PIC S9(4) SIGN VALUE 1.
000006 END PROGRAM     C1127.
```

C1127.cob 5: JMN1127I-S The syntax of the SIGN clause is invalid.

### JMN1128I-S

---

**The file-name must be specified in the file description entry.**

Example

```
[C1128.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1128.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006 SELECT INFILE ASSIGN TO A.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD 1234.
000010 01 INREC PIC X(80).
000011 END PROGRAM     C1128.
```

C1128.cob 9: JMN1128I-S The file-name must be specified in the file description entry.

### JMN1129I-S

---

**'RECURSIVE' can only be specified for external programs.**

## Example

```
[P1129.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P1129.
000003 PROCEDURE DIVISION.
000004 PROGRAM-ID.      SUB RECURSIVE.
000005 END PROGRAM      SUB.
000006 END PROGRAM      P1129.
```

P1129.cob 4: JMN1129I-S 'RECURSIVE' can only be specified for external programs.

## JMN1130I-S

**The LOCAL-STORAGE SECTION can only be specified for an external program that does not contain the INITIAL attribute.**

### Example

```
[P1130.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P1130.
000003 PROCEDURE DIVISION.
000004 PROGRAM-ID.      SUB.
000005 DATA DIVISION.
000006 LOCAL-STORAGE SECTION.
000007 END PROGRAM      SUB.
000008 END PROGRAM      P1130.
```

P1130.cob 6: JMN1130I-S The LOCAL-STORAGE SECTION can only be specified for an external program that does not contain the INITIAL attribute.

## JMN1131I-S

**FILLER cannot be specified after level-number '66', '78', or '88'.**

### Example

```
[C1131.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1131.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A PIC XX.
000006 88 FILLER VALUE "OK".
000007 78 FILLER VALUE A.
000008 66 FILLER RENAMES A THRU B.
000009 END PROGRAM      C1131.
```

C1131.cob 6: JMN1131I-S FILLER cannot be specified after level-number '66', '78', or '88'.

C1131.cob 7: JMN1131I-S FILLER cannot be specified after level-number '66', '78', or '88'.

C1131.cob 8: JMN1131I-S FILLER cannot be specified after level-number '66', '78', or '88'.

## JMN1132I-S

**A condition-name must be specified after level-number '88'.**

### Example

```
[C1132.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1132.
000003 DATA DIVISION.
```

```

000004 WORKING-STORAGE SECTION.
000005     01  A  PIC X(2).
000006     88  VALUE "OK".
000007 END PROGRAM      C1132.

```

C1132.cob 6: JMN1132I-S A condition-name must be specified after level-number '88'.

### JMN1133I-S

**A VALUE clause must immediately follow the condition-name in the condition-name description entry.**

#### Example

```

[C1133.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1133.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     01  A  PIC X(2).
000006     88  RES PIC X(2) VALUE "OK".
000007 END PROGRAM      C1133.

```

C1133.cob 6: JMN1133I-S A VALUE clause must immediately follow the condition-name in the condition-name description entry.

### JMN1134I-S

**A RENAMES clause must immediately follow the data-name in '66' level-number data description entries.**

#### Example

```

[C1134.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1134.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     01  WK-TBL PIC X(10).
000006     66  RE-TBL PIC 9 RENAMES WK-TBL.
000007 END PROGRAM      C1134.

```

C1134.cob 6: JMN1134I-S A RENAMES clause must immediately follow the data-name in '66' level-number data description entries.

### JMN1141I-S ([Win32])

**COMMON, INITIAL, or PROTOTYPE is already specified. This COMMON, INITIAL or PROTOTYPE is ignored.**

#### Example

```

[C1141.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1141 IS INITIAL INITIAL.
000003 END PROGRAM      C1141.

```

C1141.cob 2: JMN1141I-S COMMON, INITIAL, or PROTOTYPE is already specified. This COMMON, INITIAL or PROTOTYPE is ignored.

### JMN1141I-S ([Winx64])

**COMMON, INITIAL or RECURSIVE is already specified. This COMMON, INITIAL or RECURSIVE is ignored.**

#### Example

```

[C1141.cob]
000001 IDENTIFICATION DIVISION.

```



```
000002 PROGRAM-ID.      C1141 IS INITIAL INITIAL.
000003 END PROGRAM      C1141.
```

C1141.cob 2: JMN1141I-S COMMON, INITIAL or RECURSIVE is already specified. This COMMON, INITIAL or RECURSIVE is ignored.

### JMN1142I-S

**An invalid character is specified in the PICTURE character-string. PICTURE 9 is assumed.**

Example

```
[C1142.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1142.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WORK1 PIC F.
000006 END PROGRAM     C1142.
```

C1142.cob 5: JMN1142I-S An invalid character is specified in the PICTURE character-string. PICTURE 9 is assumed.

### JMN1143I-S

**A nonnumeric character cannot be specified in parentheses. PICTURE 9 is assumed.**

Example

```
[C1143.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1143.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WORK1 PIC X(A).
000006 END PROGRAM     C1143.
```

C1143.cob 5: JMN1143I-S A nonnumeric character cannot be specified in parentheses. PICTURE 9 is assumed.

### JMN1144I-S

**The numeric in parentheses in the PICTURE character-string is zero or is not a valid numeric. 1 is assumed.**

Example

```
[C1144.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1144.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WORK1 PIC X(0).
000006 END PROGRAM     C1144.
```

C1144.cob 5: JMN1144I-S The numeric in parentheses in the PICTURE character-string is zero or is not a valid numeric. 1 is assumed.

### JMN1145I-S

**The right parenthesis corresponding to the left parenthesis is missing. PICTURE 9 is assumed.**

Example

```
[C1145.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1145.
000003 DATA            DIVISION.
```

```
000004 WORKING-STORAGE SECTION.  
000005 01 WORK1 PIC X(10).  
000006 END PROGRAM C1145.
```

C1145.cob 5: JMN1145I-S The right parenthesis corresponding to the left parenthesis is missing. PICTURE 9 is assumed.

## JMN1146I-S

**The numeric in parentheses in the PICTURE clause or consecutive same character length must not exceed 2147483647. 2147483647 is assumed.**

### Example

```
[C1146.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1146.  
000003 DATA DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005 01 WORK1 PIC X(2147483648).  
000006 END PROGRAM C1146.
```

C1146.cob 5: JMN1146I-S The numeric in parentheses in the PICTURE clause or consecutive same character length must not exceed 2147483647. 2147483647 is assumed.

## JMN1147I-S

**CR or DB can be specified only at the end of a PICTURE character-string. PICTURE 9 is assumed.**

### Example

```
[C1147.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1147.  
000003 DATA DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005 01 WORK1 PIC 9CR9.  
000006 END PROGRAM C1147.
```

C1147.cob 5: JMN1147I-S CR or DB can be specified only at the end of a PICTURE character-string. PICTURE 9 is assumed.

## JMN1148I-S

**The END DECLARATIVES corresponding to the DECLARATIVES is missing. An END DECLARATIVES is assumed to be specified.**

### Example

```
[C1148.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1148.  
000003 ENVIRONMENT DIVISION.  
000004 CONFIGURATION SECTION.  
000005 INPUT-OUTPUT SECTION.  
000006 FILE-CONTROL.  
000007 SELECT INMSG  
000008 ASSIGN TO INFILE.  
000009 DATA DIVISION.  
000010 FILE SECTION.  
000011 FD INMSG.  
000012 01 MSGFORM PIC X(50).  
000013 PROCEDURE DIVISION.  
000014 DECLARATIVES.  
000015 IO-ERR SECTION.
```

```
000016 USE AFTER EXCEPTION PROCEDURE INMSG.  
000017 END PROGRAM C1148.
```

C1148.cob 16: JMN1148I-S The END DECLARATIVES corresponding to the DECLARATIVES is missing. An END DECLARATIVES is assumed to be specified.

## JMN1149I-W

**Level-number 01 or 77 must be specified from area A. The level-number is assumed to be specified from area A.**

### Example

```
[C1149.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1149.  
000003 DATA DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005 01 WORK1 PIC X.  
000006 77 WORK2 PIC 9.  
000007 END PROGRAM C1149.
```

C1149.cob 5: JMN1149I-W Level-number 01 or 77 must be specified from area A. The level-number is assumed to be specified from area A.

C1149.cob 6: JMN1149I-W Level-number 01 or 77 must be specified from area A. The level-number is assumed to be specified from area A.

## JMN1150I-S

**The integer in the TRACK-AREA clause must not exceed 32760. 32760 is assumed.**

### Example

```
[C1150.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1150.  
000003 ENVIRONMENT DIVISION.  
000004 INPUT-OUTPUT SECTION.  
000005 FILE-CONTROL.  
000006 SELECT MSGFILE ASSIGN TO I-INFILE  
000007 ACCESS MODE IS RANDOM  
000008 RECORD KEY IS INFNUM  
000009 NOMINAL KEY IS WINF  
000010 TRACK-AREA IS 32761 CHARACTERS  
000011 .  
000012 DATA DIVISION.  
000013 FILE SECTION.  
000014 FD MSGFILE.  
000015 01 INFDAT.  
000016 02 INFNUM PIC S9(8) BINARY.  
000017 02 INFMSG PIC X(50).  
000018 WORKING-STORAGE SECTION.  
000019 01 WINF PIC S9(8) BINARY.  
000020 END PROGRAM C1150.
```

C1150.cob 10: JMN1150I-S The integer in the TRACK-AREA clause must not exceed 32760. 32760 is assumed.

## JMN1151I-S

**The integer in the @1@ clause must not exceed 32767. 32767 is assumed.**

### Parameter Explanation

@1@ : clause name

## Example

```
[C1151.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1151.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT MSGFILE ASSIGN TO D-INFILE
000007     TRACK-LIMIT  IS 32768
000008     .
000009 DATA           DIVISION.
000010 FILE            SECTION.
000011 FD MSGFILE.
000012 01 INFDAT.
000013 02 INFNUM      PIC S9(8) BINARY.
000014 02 INFMSG     PIC X(50).
000015 END PROGRAM    C1151.
```

C1151.cob 7: JMN1151I-S The integer in the TRACK-LIMIT clause must not exceed 32767. 32767 is assumed.

## JMN1154I-S

**The FOOTING, TOP, or BOTTOM operand in the LINAGE clause is invalid.**

### Example

```
[C1154.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1154.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT INFILE ASSIGN TO IN-F.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD INFILE
000010     LINAGE IS 10
000011     WITH AT 1234.
000012 01 INREC      PIC X(80).
000013 END PROGRAM    C1154.
```

C1154.cob 11: JMN1154I-S The FOOTING, TOP, or BOTTOM operand in the LINAGE clause is invalid.

## JMN1155I-S

**The data-name in the REDEFINES clause cannot be qualified. The qualifier is ignored.**

### Example

```
[C1155.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1155.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WORK1.
000006 02 CHR PIC X(10) VALUE "ABCDEFGHIJ".
000007 01 WK2 REDEFINES WORK1 OF WK1.
000008 02 CHR PIC X(10).
000009 END PROGRAM    C1155.
```

C1155.cob 7: JMN1155I-S The data-name in the REDEFINES clause cannot be qualified. The qualifier is ignored.

## JMN1156I-W

The syntax is invalid. This syntax is ignored.

### Example

```
[C1156.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1156.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT MSGFILE ASSIGN TO F-INFILE
000007     FILE-LIMIT IS "256" THRU "512"
000008     .
000009 DATA            DIVISION.
000010 FILE             SECTION.
000011 FD MSGFILE.
000012 01 INFDAT.
000013 02 INFNUM       PIC S9(8) BINARY.
000014 02 INFMSG       PIC X(50).
000015 END PROGRAM     C1156.
```

C1156.cob 7: JMN1156I-W The syntax is invalid. This syntax is ignored.

### Explanation

The mistake is found in the syntax (obsolete element) treated as a comment. However, it doesn't influence the operation of the program because it is treated as a comment.

## JMN1158I-W

Two or more file-names must be specified in a SAME clause. The SAME clause is accepted as written.

### Example

```
[C1158.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1158.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE1 ASSIGN TO F1.
000007     SELECT FILE2 ASSIGN TO F2.
000008 I-O-CONTROL.
000009     SAME FILE1.
000010 DATA            DIVISION.
000011 FILE             SECTION.
000012 FD FILE1.
000013 01 REC1.
000014 02 RECNO1       PIC S9(8) BINARY.
000015 FD FILE2.
000016 01 REC2.
000017 02 RECNO2       PIC S9(8) BINARY.
000018 END PROGRAM     C1158.
```

C1158.cob 9: JMN1158I-W Two or more file-names must be specified in a SAME clause. The SAME clause is accepted as written.

## JMN1159I-S

The file-identifier '@1@' in the RERUN clause is invalid.

### Parameter Explanation

@1@ : file identifier

## Example

```
[C1159.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1159.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT MSGFILE ASSIGN TO INFILE.
000007 I-O-CONTROL.
000008     RERUN ON A1-DB-1.
000009 DATA            DIVISION.
000010 FILE             SECTION.
000011 FD MSGFILE.
000012 01 INFDAT.
000013  02 INFNUM      PIC S9(8) BINARY.
000014  02 INFMSG     PIC X(50).
000015 END PROGRAM    C1159.
```

C1159.cob 8: JMN1159I-S The file-identifier 'A1-DB-1' in the RERUN clause is invalid.

## JMN1161I-S

**The integer in the RECORDS phrase of the RERUN clause must be between 1 and 2147483647.**

### Example

```
[C1161.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1161.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT MSGFILE ASSIGN TO INFILE.
000007 I-O-CONTROL.
000008     RERUN ON INFILE 0 RECORDS OF MSGFILE.
000009 DATA            DIVISION.
000010 FILE             SECTION.
000011 FD MSGFILE.
000012 01 INFDAT.
000013  02 INFNUM      PIC S9(8) BINARY.
000014  02 INFMSG     PIC X(50).
000015 END PROGRAM    C1161.
```

C1161.cob 8: JMN1161I-S The integer in the RECORDS phrase of the RERUN clause must be between 1 and 2147483647.

## JMN1162I-S

**The file-name in the @1@ clause is missing or the syntax is invalid.**

### Parameter Explanation

@1@ : clause name

### Example

```
[C1162.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1162.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT MSGFILE ASSIGN TO INFILE.
000007 I-O-CONTROL.
```

```

000008     APPLY RECORD-OVERFLOW ON "MSGFILE".
000009 DATA          DIVISION.
000010 FILE           SECTION.
000011 FD MSGFILE.
000012 01 INFDAT.
000013 02 INFNUM     PIC S9(8) BINARY.
000014 02 INFMSG     PIC X(50).
000015 END PROGRAM   C1162.

```

C1162.cob 8: JMN1162I-S The file-name in the APPLY RECORD-OVERFLOW clause is missing or the syntax is invalid.

## JMN1163I-S

**The syntax of the APPLY clause is invalid.**

Example

```

[C1163.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     C1163.
000003 ENVIRONMENT    DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT MSGFILE ASSIGN TO INFILE.
000007 I-O-CONTROL.
000008     APPLY OVERFLOW ON MSGFILE.
000009 DATA          DIVISION.
000010 FILE           SECTION.
000011 FD MSGFILE.
000012 01 INFDAT.
000013 02 INFNUM     PIC S9(8) BINARY.
000014 02 INFMSG     PIC X(50).
000015 END PROGRAM   C1163.

```

C1163.cob 8: JMN1163I-S The syntax of the APPLY clause is invalid.

## JMN1164I-S

**FILE must be specified in the MULTIPLE FILE TAPE clause. FILE is assumed to be specified.**

Example

```

[C1164.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     C1164.
000003 ENVIRONMENT    DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT MSGFILE ASSIGN TO INFILE.
000007 I-O-CONTROL.
000008     MULTIPLE TAPE MSGFILE.
000009 DATA          DIVISION.
000010 FILE           SECTION.
000011 FD MSGFILE.
000012 01 INFDAT.
000013 02 INFNUM     PIC S9(8) BINARY.
000014 02 INFMSG     PIC X(50).
000015 END PROGRAM   C1164.

```

C1164.cob 8: JMN1164I-S FILE must be specified in the MULTIPLE FILE TAPE clause. FILE is assumed to be specified.

## JMN1165I-S

**The syntax of the MULTIPLE FILE TAPE clause is invalid.**

## Example

```
[C1165.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1165.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT MSGFILE ASSIGN TO INFILE.
000007 I-O-CONTROL.
000008     MULTIPLE FILE TAPE "MSGFILE".
000009 DATA             DIVISION.
000010 FILE              SECTION.
000011 FD MSGFILE.
000012 01 INFDAT.
000013 02 INFNUM        PIC S9(8) BINARY.
000014 02 INFMSG       PIC X(50).
000015 END PROGRAM     C1165.
```

C1165.cob 8: JMN1165I-S The syntax of the MULTIPLE FILE TAPE clause is invalid.

## JMN1166I-S

**An integer must be specified in the POSITION clause of the MULTIPLE FILE TAPE clause.**

### Example

```
[C1166.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1166.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT MSGFILE ASSIGN TO INFILE.
000007 I-O-CONTROL.
000008     MULTIPLE FILE TAPE MSGFILE POSITION CNT.
000009 DATA             DIVISION.
000010 FILE              SECTION.
000011 FD MSGFILE.
000012 01 INFDAT.
000013 02 INFNUM        PIC S9(8) BINARY.
000014 02 INFMSG       PIC X(50).
000015 WORKING-STORAGE SECTION.
000016 01 CNT          PIC S9(4) BINARY.
000017 END PROGRAM     C1166.
```

C1166.cob 8: JMN1166I-S An integer must be specified in the POSITION clause of the MULTIPLE FILE TAPE clause.

## JMN1167I-W

**A period can be specified only at the end of an I-O-CONTROL paragraph. The period is ignored.**

### Example

```
[C1167.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1167.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT INFILE  ASSIGN TO INDATA.
000007     SELECT OUTFILE ASSIGN TO OUTDATA.
000008 I-O-CONTROL.
000009     MULTIPLE FILE TAPE INFILE.
```



```

000010     SAME INFILE OUTFILE.
000011 DATA          DIVISION.
000012 FILE           SECTION.
000013 FD INFILE.
000014 01 INFDAT.
000015 02 INFNUM      PIC S9(8) BINARY.
000016 02 INFMSG     PIC X(50).
000017 FD OUTFILE.
000018 01 OUTDAT.
000019 02 OUTFNUM    PIC S9(8) BINARY.
000020 02 OUTMSG     PIC X(50).
000021 END PROGRAM   C1167.

```

C1167.cob 9: JMN1167I-W A period can be specified only at the end of an I-O-CONTROL paragraph. The period is ignored.

## JMN1183I-S

**The integer in the OCCURS clause must not exceed the value of the integer in the TO phrase. The integer in the TO phrase is used in the OCCURS clause.**

### Example

```

[C1183.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     C1183.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WK-TBL.
000006 02 WK           PIC X OCCURS 3 TO 1
000007                   DEPENDING ON LENGCNT.
000008 01 LENGCNT     PIC S9(4) BINARY.
000009 END PROGRAM    C1183.

```

C1183.cob 6: JMN1183I-S The integer in the OCCURS clause must not exceed the value of the integer in the TO phrase. The integer in the TO phrase is used in the OCCURS clause.

## JMN1184I-S

**If the maximum number of occurrences is specified in the OCCURS clause, a DEPENDING ON phrase must also be specified. The maximum number of occurrences is assumed to be the exact number of occurrences.**

### Example

```

[C1184.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     C1184.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WK-TBL.
000006 02 WK           PIC X OCCURS 1 TO 10.
000007 01 LENGCNT     PIC S9(4) BINARY.
000008 END PROGRAM    C1184.

```

C1184.cob 6: JMN1184I-S If the maximum number of occurrences is specified in the OCCURS clause, a DEPENDING ON phrase must also be specified. The maximum number of occurrences is assumed to be the exact number of occurrences.

### Explanation

Please describe the DEPENDING ON phrase when you specify the TO phrase of the OCCURS clause.

## JMN1185I-S

---

**The exact or maximum number of occurrences in the OCCURS clause must be greater than or equal to 1. 1 is assumed to be specified.**

Example

```
[C1185.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1185.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WK-TBL.
000006 02 WK PIC 9 OCCURS 0.
000007 END PROGRAM     C1185.
```

C1185.cob 6: JMN1185I-S The exact or maximum number of occurrences in the OCCURS clause must be greater than or equal to 1. 1 is assumed to be specified.

### JMN1187I-S

---

**A file-name must be specified after level indicator SD. This entry ignored, and processing skips to the next division, paragraph, level indicator, or level-number.**

Example

```
[C1187.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1187.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SORTFILE ASSIGN TO S-FILE.
000007 DATA            DIVISION.
000008 FILE             SECTION.
000009 SD 1234.
000010 01 SORTREC PIC X(80).
000011 END PROGRAM     C1187.
```

C1187.cob 9: JMN1187I-S A file-name must be specified after level indicator SD. This entry ignored, and processing skips to the next division, paragraph, level indicator, or level-number.

### JMN1188I-S

---

**A data-name must be specified in the PROCESSING MODE clause of a presentation file.**

Example

```
[C1188.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1188.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN GS-DISP
000007     SYMBOLIC DESTINATION IS "DSP"
000008     PROCESSING MODE IS SEQUENTIAL
000009     .
000010 DATA            DIVISION.
000011 FILE             SECTION.
000012 FD IN-F.
000013 01 IN-R PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 END PROGRAM     C1188.
```

C1188.cob 8: JMN1188I-S A data-name must be specified in the PROCESSING MODE clause of a presentation file.

## JMN1190I-S

**The @1@ clause can be specified only for a presentation file.**

### Parameter Explanation

@1@ : clause name of presentation file

### Example

```
[C1190.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1190.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN SYS000
000007     SYMBOLIC DESTINATION IS "DSP"
000008     .
000009 DATA           DIVISION.
000010 FILE             SECTION.
000011 FD  IN-F.
000012 01  IN-R PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 END PROGRAM     C1190.
```

C1190.cob 7: JMN1190I-S The SYMBOLIC DESTINATION clause can be specified only for a presentation file.

### Explanation

The hint: "GS" is necessary for the prefix for the file identifier of the presentation file.

## JMN1193I-S

**The FORMAT clause can be specified only for a presentation file or a sequential file.**

### Example

```
[C1193.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1193.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT MSGFILE ASSIGN TO INFILE
000007     ORGANIZATION IS INDEXED
000008     RECORD KEY    IS INFNUM
000009     FORMAT        IS WINF
000010     .
000011 DATA           DIVISION.
000012 FILE             SECTION.
000013 FD MSGFILE.
000014 01 INFDAT.
000015 02 INFNUM      PIC S9(8) BINARY.
000016 02 INFMSG     PIC X(50).
000017 WORKING-STORAGE SECTION.
000018 01 WINF        PIC X(8).
000019 END PROGRAM     C1193.
```

C1193.cob 9: JMN1193I-S The FORMAT clause can be specified only for a presentation file or a sequential file.

## JMN1194I-S

**The GROUP clause can be specified only for a presentation file or a print file with a FORMAT clause.**

## Example

```
[C1194.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1194.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT MSGFILE ASSIGN TO INFILE
000007     ORGANIZATION IS SEQUENTIAL
000008     GROUP         IS WGRP
000009     .
000010 DATA           DIVISION.
000011 FILE             SECTION.
000012 FD MSGFILE.
000013 01 INFDAT.
000014 02 INFNUM       PIC S9(8) BINARY.
000015 02 INFMSG       PIC X(50).
000016 WORKING-STORAGE SECTION.
000017 01 WGRP         PIC X(8).
000018 END PROGRAM     C1194.
```

C1194.cob 8: JMN1194I-S The GROUP clause can be specified only for a presentation file or a print file with a FORMAT clause.

## JMN1195I-S

**SEQUENTIAL must be specified in the ACCESS MODE clause of a presentation file. SEQUENTIAL is assumed.**

## Example

```
[C1195.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1195.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN GS-DISP
000007     SYMBOLIC DESTINATION IS "DSP"
000008     ACCESS MODE IS RANDOM
000009     .
000010 DATA           DIVISION.
000011 FILE             SECTION.
000012 FD IN-F.
000013 01 IN-R         PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 END PROGRAM     C1195.
```

C1195.cob 8: JMN1195I-S SEQUENTIAL must be specified in the ACCESS MODE clause of a presentation file. SEQUENTIAL is assumed.

## JMN1197I-S

**The syntax of the MESSAGE MODE, MESSAGE CLASS, MESSAGE OWNER, or MESSAGE CODE clause is invalid.**

## Example

```
[C1197.cob]
000001 @OPTIONS
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C1197.
000004 ENVIRONMENT     DIVISION.
000005 INPUT-OUTPUT    SECTION.
```

```

000006 FILE-CONTROL.
000007     SELECT GSFILE ASSIGN TO GS-DD1
000008         SYMBOLIC DESTINATION IS "ACM"
000009     MESSAGE .
000010 DATA    DIVISION.
000011 FILE     SECTION.
000012 FD      GSFILE.
000013 01      GSREC1.
000014 02      GSREC11  PIC X(80).

```

C1197.cob 9: JMN1197I-S The syntax of the MESSAGE MODE, MESSAGE CLASS, MESSAGE OWNER, or MESSAGE CODE clause is invalid.

## JMN1198I-S

**The literal in the SYMBOLIC CONSTANT clause must be a numeric literal, nonnumeric literal, national literal, Boolean literal, hexadecimal nonnumeric literal, or pointer literal.**

### Example

```

[C1198.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1198.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     SYMBOLIC CONSTANT
000007     CON1 IS CON1.
000008 END PROGRAM       C1198.

```

C1198.cob 7: JMN1198I-S The literal in the SYMBOLIC CONSTANT clause must be a numeric literal, nonnumeric literal, national literal, Boolean literal, hexadecimal nonnumeric literal, or pointer literal.

## JMN1207I-S

**Two or more @1@ clauses are specified.**

### Parameter Explanation

@1@ : clause name

### Example

```

[C1207.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1207.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SOURCE-COMPUTER. COMS01
000006     WITH DEBUGGING MODE
000007     WITH DEBUGGING MODE.
000008 END PROGRAM       C1207.

```

C1207.cob 7: JMN1207I-S Two or more DEBUGGING clauses are specified.

## JMN1208I-S

**The syntax of the PROGRAM COLLATING SEQUENCE clause is invalid.**

### Example

```

[C1208.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1208.
000003 ENVIRONMENT     DIVISION.

```

```
000004 CONFIGURATION SECTION.
000005 OBJECT-COMPUTER. COMS1
000006 PROGRAM SEQUENCE.
000007 END PROGRAM C1208.
```

C1208.cob 6: JMN1208I-S The syntax of the PROGRAM COLLATING SEQUENCE clause is invalid.

## JMN1209I-S

**The ALPHABET clause must be specified before the SYMBOLIC CHARACTERS clause.**

### Example

```
[C1209.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1209.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006 SYMBOLIC CHARACTERS
000007 MCHR IS 10
000008 ALPHABET
000009 ABC IS NATIVE.
000010 END PROGRAM C1209.
```

C1209.cob 8: JMN1209I-S The ALPHABET clause must be specified before the SYMBOLIC CHARACTERS clause.

## JMN1213I-S

**The mnemonic-name is missing from the FUNCTION-NAME clause.**

### Example

```
[C1213.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1213.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006 SYSOUT.
000007 END PROGRAM C1213.
```

C1213.cob 6: JMN1213I-S The mnemonic-name is missing from the FUNCTION-NAME clause.

## JMN1214I-S

**The mnemonic-name or the switch-status condition-name is missing from the FUNCTION-NAME clause with an external switch.**

### Example

```
[C1214.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1214.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006 SWITCH-0.
000007 END PROGRAM C1214.
```

C1214.cob 6: JMN1214I-S The mnemonic-name or the switch-status condition-name is missing from the FUNCTION-NAME clause with an external switch.

## JMN1215I-S

The condition-name is missing from the ON/OFF STATUS clause.

### Example

```
[C1215.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1215.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     SWITCH-0 IS STO
000007     ON STATUS.
000008 END PROGRAM     C1215.
```

C1215.cob 7: JMN1215I-S The condition-name is missing from the ON/OFF STATUS clause.

## JMN1216I-S

The syntax of the FUNCTION-NAME clause or ALPHABET clause is invalid.

### Example

```
[C1216.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1216.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET ABC IS DD.
000007 END PROGRAM     C1216.
```

C1216.cob 6: JMN1216I-S The syntax of the FUNCTION-NAME clause or ALPHABET clause is invalid.

## JMN1217I-S

The numeric literal in the ALPHABET or CLASS clause must be between 1 and 256. 1 is the assumed numeric literal for 0. 256 is the assumed numeric literal for values greater than 256.

### Example

```
[C1217.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1217.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET ABC IS 257.
000007 END PROGRAM     C1217.
```

C1217.cob 6: JMN1217I-S The numeric literal in the ALPHABET or CLASS clause must be between 1 and 256. 1 is the assumed numeric literal for 0. 256 is the assumed numeric literal for values greater than 256.

## JMN1218I-S

The nonnumeric literal in the ALPHABET clause must be 1 byte in length. The first byte is used as the nonnumeric literal.

### Example

```
[C1218.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1218.
000003 ENVIRONMENT     DIVISION.
```

```

000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET ABC IS "ABC" THRU "XYZ".
000007 END PROGRAM      C1218.

```

C1218.cob 6: JMN1218I-S The nonnumeric literal in the ALPHABET clause must be 1 byte in length. The first byte is used as the nonnumeric literal.

C1218.cob 6: JMN1218I-S The nonnumeric literal in the ALPHABET clause must be 1 byte in length. The first byte is used as the nonnumeric literal.

## JMN1219I-S

**Each native character must be represented by only one literal in the ALPHABET clause.**

Example

```

[C1219.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1219.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET ABC IS "A" THRU "A".
000007 END PROGRAM      C1219.

```

C1219.cob 6: JMN1219I-S Each native character must be represented by only one literal in the ALPHABET clause.

## JMN1220I-S

**The syntax of the SYMBOLIC CHARACTERS clause is invalid.**

Example

```

[C1220.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1220.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET ALP IS "A" THRU "Z"
000007     SYMBOLIC CHARACTERS
000008     TAB IS 10 IN
000009     .
000010 END PROGRAM      C1220.

```

C1220.cob 7: JMN1220I-S The syntax of the SYMBOLIC CHARACTERS clause is invalid.

## JMN1221I-S

**The number of symbolic characters and integers in the SYMBOLIC CHARACTERS clause must correspond.**

Example

```

[C1221.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1221.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET ALP IS "A" THRU "Z"
000007     SYMBOLIC CHARACTERS
000008     TAB IS 10 11 12

```



```
000009 .
000010 END PROGRAM      C1221.
```

C1221.cob 7: JMN1221I-S The number of symbolic characters and integers in the SYMBOLIC CHARACTERS clause must correspond.

### JMN1222I-S

**The integer in the SYMBOLIC CHARACTERS clause must not exceed 256. The integer 256 is used.**

Example

```
[C1222.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1222.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET ALP IS "A" THRU "Z"
000007     SYMBOLIC CHARACTERS
000008     TAB IS 257
000009 .
000010 END PROGRAM      C1222.
```

C1222.cob 8: JMN1222I-S The integer in the SYMBOLIC CHARACTERS clause must not exceed 256. The integer 256 is used.

### JMN1223I-S

**The syntax of the CLASS clause is invalid.**

Example

```
[C1223.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1223.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     CLASS CHAR1 IS.
000007 END PROGRAM      C1223.
```

C1223.cob 6: JMN1223I-S The syntax of the CLASS clause is invalid.

### JMN1224I-S

**The nonnumeric literal must be 1 character in length in a CLASS clause with a THROUGH phrase. The first character is used as the nonnumeric literal.**

Example

```
[C1224.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1224.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     CLASS ABC IS "ABC" THRU "XYZ".
000007 END PROGRAM      C1224.
```

C1224.cob 6: JMN1224I-S The nonnumeric literal must be 1 character in length in a CLASS clause with a THROUGH phrase. The first character is used as the nonnumeric literal.

C1224.cob 6: JMN1224I-S The nonnumeric literal must be 1 character in length in a CLASS clause with a THROUGH phrase. The first character is used as the nonnumeric literal.

## JMN1225I-S

**The syntax of the BLOCK CONTAINS clause is invalid.**

### Example

```
[C1225.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1225.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT INFILE ASSIGN TO IN-F.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD INFILE BLOCK CONTAINS WCNT.
000010 01 INREC PIC X(80).
000011 WORKING-STORAGE SECTION.
000012 01 WCNT PIC S9(4) BINARY.
000013 END PROGRAM     C1225.
```

C1225.cob 9: JMN1225I-S The syntax of the BLOCK CONTAINS clause is invalid.

## JMN1227I-S

**The integer in the BLOCK CONTAINS clause exceeds 32760. 32760 is used.**

### Example

```
[C1227.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1227.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT INFILE ASSIGN TO IN-F.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD INFILE BLOCK CONTAINS 32761.
000010 01 INREC PIC X(80).
000011 END PROGRAM     C1227.
```

C1227.cob 9: JMN1227I-S The integer in the BLOCK CONTAINS clause exceeds 32760. 32760 is used.

## JMN1228I-S

**In a BLOCK CONTAINS clause, the smallest block size specified must be less than the greatest block size specified. The greatest block size is assumed to be the same as the smallest block size.**

### Example

```
[C1228.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1228.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN TO ABC.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD IN-F BLOCK CONTAINS 10 TO 1.
000010 01 IN-R PIC X(80).
000011 END PROGRAM     C1228.
```

C1228.cob 9: JMN1228I-S In a BLOCK CONTAINS clause, the smallest block size specified must be less than the greatest block size specified. The greatest block size is assumed to be the same as the smallest block size.

## JMN1229I-S

**The syntax of the RECORD clause is invalid.**

Example

```
[C1229.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1229.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN TO SYS006.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F RECORD.
000010 01 IN-R PIC X(80).
000011 END PROGRAM C1229.
```

C1229.cob 9: JMN1229I-S The syntax of the RECORD clause is invalid.

## JMN1231I-S

**In a RECORD clause data record, the smallest character size must be less than greatest character size. The greatest character size is assumed to be the same as the smallest character size.**

Example

```
[C1231.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1231.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN TO SYS006.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F RECORD 80 TO 10.
000010 01 IN-R PIC X(80).
000011 END PROGRAM C1231.
```

C1231.cob 9: JMN1231I-S In a RECORD clause data record, the smallest character size must be less than greatest character size. The greatest character size is assumed to be the same as the smallest character size.

## JMN1232I-S

**An integer must be specified in the RECORD CONTAINS clause.**

Example

```
[C1232.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1232.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN TO SYS006.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F RECORD CONTAINS RECCNT.
000010 01 IN-R PIC X(80).
```

```
000011 WORKING-STORAGE SECTION.  
000012 01 RECCNT      PIC S9(4) BINARY.  
000013 END PROGRAM    C1232.
```

C1232.cob 9: JMN1232I-S An integer must be specified in the RECORD CONTAINS clause.

## JMN1233I-S

**The syntax of the VALUE clause of the condition-name is invalid.**

Example

```
[C1233.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.     C1233.  
000003 DATA           DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005 01 ST1 PIC 9.  
000006 88 FLG VALUE ALL 9.  
000007 END PROGRAM    C1233.
```

C1233.cob 6: JMN1233I-S The syntax of the VALUE clause of the condition-name is invalid.

## JMN1234I-S

**The syntax of the RENAMES clause is invalid.**

Example

```
[C1234.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.     C1234.  
000003 DATA           DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005 01 WK-TBL.  
000006 02 WK1 PIC X.  
000007 02 WK2 PIC X.  
000008 02 WK3 PIC X.  
000009 66 RNML RENAMES "WK-TBL".  
000010 END PROGRAM    C1234.
```

C1234.cob 9: JMN1234I-S The syntax of the RENAMES clause is invalid.

## JMN1236I-S

**The subschema-name must not exceed 8 characters.**

Example

```
[C1236.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.     C1236.  
000003 ENVIRONMENT     DIVISION.  
000004 CONFIGURATION   SECTION.  
000005 SUBSCHEMA-NAME. "ABCDEFGHI".  
000006 END PROGRAM    C1236.
```

C1236.cob 5: JMN1236I-S The subschema-name must not exceed 8 characters.

## JMN1237I-S

**The invalid character-string '@1@' is specified as a subschema-name.**

## Parameter Explanation

@1@ : subschema name

### Example

```
[C1237.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1237.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SUBSCHEMA-NAME. "ABCDEF!H".
000006 END PROGRAM     C1237.
```

C1237.cob 5: JMN1237I-S The invalid character-string 'ABCDEF!H' is specified as a subschema-name.

### Explanation

It is necessary to compose the subschema-name of A-Z and 0-9.

## JMN1238I-S

---

### The subschema-name is missing.

### Example

```
[C1238.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1238.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SUBSCHEMA-NAME. ABCDEF.
000006 END PROGRAM     C1238.
```

C1238.cob 5: JMN1238I-S The subschema-name is missing.

### Explanation

The subschema-name has the following rules.

- Within eight characters
- It is composed of A-Z and 0-9.

## JMN1239I-S

---

### The syntax of the SUBSCHEMA-NAME paragraph is invalid.

### Example

```
[C1239.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1239.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SUBSCHEMA-NAME. "ABCDEF" IS PROTOTYPE.
000006 END PROGRAM     C1239.
```

C1239.cob 5: JMN1239I-S The syntax of the SUBSCHEMA-NAME paragraph is invalid.

## JMN1240I-S

---

### A period is required at the end of the SUBSCHEMA-NAME paragraph.

## Example

```
[C1240.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1240.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SUBSCHEMA-NAME. "ABCDEF"
000006 END PROGRAM     C1240.
```

C1240.cob 5: JMN1240I-S A period is required at the end of the SUBSCHEMA-NAME paragraph.

## JMN1241I-S

---

**EXTERNAL or GLOBAL is specified more than once in the SUBSCHEMA-NAME paragraph.**

### Example

```
[C1241.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1241.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SUBSCHEMA-NAME. "ABCDEF" GLOBAL GLOBAL.
000006 END PROGRAM     C1241.
```

C1241.cob 5: JMN1241I-S EXTERNAL or GLOBAL is specified more than once in the SUBSCHEMA-NAME paragraph.

## JMN1242I-S

---

**The alphabet-name '@1@' in the SYMBOLIC CHARACTERS clause is undefined.**

### Parameter Explanation

@1@ : alphabet-name

### Example

```
[C1242.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1242.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET ALP01 IS "A" THRU "Z"
000007         "a" THRU "z"
000008     SYMBOLIC CHARACTERS
000009     TAB IS 10 IN ALP.
000010 END PROGRAM     C1242.
```

C1242.cob 8: JMN1242I-S The alphabet-name 'ALP' in the SYMBOLIC CHARACTERS clause is undefined.

## JMN1243I-S

---

**The alphabet-name in the SYMBOLIC CHARACTERS clause must correspond to STANDARD-1, STANDARD-2, NATIVE, or literal.**

### Example

```
[C1243.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1243.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
```

```

000006     ALPHABET HUGO1 IS CODE-1
000007     SYMBOLIC CHARACTERS A IS 12 IN HUGO1.
000008 END PROGRAM      C1243.

```

C1243.cob 7: JMN1243I-S The alphabet-name in the SYMBOLIC CHARACTERS clause must correspond to STANDARD-1, STANDARD-2, NATIVE, or literal.

## JMN1244I-W

**The word RECORD or RECORDS is missing from the LABEL RECORDS clause. The word is assumed to be specified.**

### Example

```

[C1244.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1244.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN TO INFILE.
000007 DATA            DIVISION.
000008 FILE             SECTION.
000009 FD  IN-F LABEL IS STANDARD.
000010 01  IN-R  PIC X(80).
000011 END PROGRAM     C1244.

```

C1244.cob 9: JMN1244I-W The word RECORD or RECORDS is missing from the LABEL RECORDS clause. The word is assumed to be specified.

## JMN1246I-W

**The SECTION header is missing. The following is assumed: FILE SECTION for FD or SD, REPORT SECTION for rd, or WORKING-STORAGE SECTION for level-number.**

### Example

```

[C1246.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1246.
000003 DATA            DIVISION.
000004 01  DATA-1  PIC 9(4).
000005 END PROGRAM     C1246.

```

C1246.cob 4: JMN1246I-W The SECTION header is missing. The following is assumed: FILE SECTION for FD or SD, REPORT SECTION for rd, or WORKING-STORAGE SECTION for level-number.

## JMN1253I-S

**A Level 66 item must be specified only after an item with a level-number of 01 through 49, or 66. The Level 66 item is ignored.**

### Example

```

[C1253.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1253.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 66  TBL RENAMES DATA-TBL.
000006 01  DATA-TBL.
000007 02  A  PIC X.
000008 02  B  PIC 9.
000009 END PROGRAM     C1253.

```

C1253.cob 5: JMN1253I-S A Level 66 item must be specified only after an item with a level-number of 01 through 49, or 66. The Level 66 item is ignored.

## JMN1254I-S

---

**A Level 77 item cannot be specified in a FILE SECTION. The item is assumed to be a level 01.**

### Example

```
[C1254.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1254.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD IN-F.
000010 01 IN-R PIC X(80).
000011 77 DATA-1 PIC 9 VALUE ZERO.
000012 END PROGRAM     C1254.
```

C1254.cob 11: JMN1254I-S A Level 77 item cannot be specified in a FILE SECTION. The item is assumed to be a level 01.

## JMN1255I-S

---

**An item with a level-number of 02 through 49 is specified without a level 01 item. The item is assumed to be a level 01.**

### Example

```
[C1255.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1255.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.
000005 02 DATA-1 PIC X.
000006 END PROGRAM     C1255.
```

C1255.cob 5: JMN1255I-S An item with a level-number of 02 through 49 is specified without a level 01 item. The item is assumed to be a level 01.

## JMN1256I-S

---

**0 cannot be specified as an integer in the @1@ clause.**

### Parameter Explanation

@1@ : TRACK-AREA,TRACK-LIMIT,PRINTING POSITION

### Example

```
[C1256.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1256.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION    SECTION.
000005 SPECIAL-NAMES.
000006     POSITIONING UNIT PUN-A IS 12 CPI.
000007 DATA           DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 REC-A PIC X(10) PRINTING POSITION IS 0 BY PUN-A.
000010 END PROGRAM     C1256.
```



C1256.cob 9: JMN1256I-S 0 cannot be specified as an integer in the PRINTING POSITION clause.

## JMN1257I-S

**The ordinal position corresponding to the integer in the SYMBOLIC CHARACTERS clause does not exist in the specified character set. Assumed to be ordinal position in the native character set.**

Example

```
[C1257.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1257.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET EBC IS EBCDIC
000007     SYMBOLIC CHARACTERS
000008     TAB IS 255 IN EBC
000009     .
000010 END PROGRAM C1257.
```

C1257.cob 7: JMN1257I-S The ordinal position corresponding to the integer in the SYMBOLIC CHARACTERS clause does not exist in the specified character set. Assumed to be ordinal position in the native character set.

## JMN1258I-W

**A section-name is required immediately after DECLARATIVES. The section-name is assumed.**

Example

```
[C1258.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1258.
000003 PROCEDURE        DIVISION.
000004 DECLARATIVES.
000005     USE AFTER STANDARD EXCEPTION PROCEDURE ON INPUT.
000006 END DECLARATIVES.
000007 END PROGRAM        C1258.
```

C1258.cob 5: JMN1258I-W A section-name is required immediately after DECLARATIVES. The section-name is assumed.

## JMN1259I-W

**A paragraph-name is specified immediately after a DECLARATIVES. The paragraph-name is used as the section-name.**

Example

```
[C1259.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1259.
000003 PROCEDURE        DIVISION.
000004 DECLARATIVES.
000005     SAMPLE.
000006     USE AFTER STANDARD EXCEPTION PROCEDURE ON INPUT.
000007 END DECLARATIVES.
000008 END PROGRAM        C1259.
```

C1259.cob 5: JMN1259I-W A paragraph-name is specified immediately after a DECLARATIVES. The paragraph-name is used as the section-name.

## JMN1260I-W

---

**A section name must be specified immediately in front of the USE statement. The paragraph-name is used as the section-name.**

Example

```
[C1260.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1260.
000003 PROCEDURE       DIVISION.
000004 DECLARATIVES.
000005 SAMPLE SECTION.
000006     USE AFTER STANDARD EXCEPTION PROCEDURE ON INPUT.
000007     USE1.
000008     USE AFTER STANDARD EXCEPTION PROCEDURE ON OUTPUT.
000009 END DECLARATIVES.
000010 END PROGRAM     C1260.
```

C1260.cob 7: JMN1260I-W A section name must be specified immediately in front of the USE statement. The paragraph-name is used as the section-name.

### JMN1261I-W

---

**A section-header is required immediately in front of a USE statement.**

Example

```
[C1261.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1261.
000003 PROCEDURE       DIVISION.
000004 DECLARATIVES.
000005 SAMPLE SECTION.
000006     USE AFTER STANDARD EXCEPTION PROCEDURE ON INPUT.
000007     USE AFTER STANDARD EXCEPTION PROCEDURE ON OUTPUT.
000008 END DECLARATIVES.
000009 END PROGRAM     C1261.
```

C1261.cob 7: JMN1261I-W A section-header is required immediately in front of a USE statement.

### JMN1265I-S

---

**The alphabet-name '@1@' of the PROGRAM COLLATING SEQUENCE clause must correspond to STANDARD-1, STANDARD-2, NATIVE, or literal.**

Parameter Explanation

@1@ : alphabet-name

Example

```
[C1265.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1265.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION    SECTION.
000005 OBJECT-COMPUTER. OCL PROGRAM COLLATING SEQUENCE IS HUGO1.
000006 SPECIAL-NAMES.
000007     ALPHABET HUGO1 IS CODE-1.
000008 END PROGRAM     C1265.
```

C1265.cob 5: JMN1265I-S The alphabet-name 'HUGO1' of the PROGRAM COLLATING SEQUENCE clause must correspond to STANDARD-1, STANDARD-2, NATIVE, or literal.

### JMN1266I-S

---

**The alphabet-name '@1@' specified in the PROGRAM COLLATING SEQUENCE clause is undefined.**

Parameter Explanation

@1@ : alphabet-name

Example

```
[C1266.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1266.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 OBJECT-COMPUTER. OC1 PROGRAM COLLATING SEQUENCE IS HUGO1.
000006 SPECIAL-NAMES.
000007     ALPHABET EBC IS EBCDIC.
000008 END PROGRAM     C1266.
```

C1266.cob 5: JMN1266I-S The alphabet-name 'HUGO1' specified in the PROGRAM COLLATING SEQUENCE clause is undefined.

**JMN1267I-S**

---

**The ALTERNATE RECORD KEY must not exceed 125.**

Example

```
[C1267.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1267.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IDX-F ASSIGN TO IDXFILE
000007     ORGANIZATION IS INDEXED
000008     RECORD KEY IS MAINKEY
000009     ALTERNATE RECORD KEY IS KEY1
000010     ALTERNATE RECORD KEY IS KEY2
:
000133     ALTERNATE RECORD KEY IS KEY125
000134     ALTERNATE RECORD KEY IS KEY126.
000135 DATA           DIVISION.
000136 FILE             SECTION.
000137 FD  IDX-F.
000138 01  IDX-R  PIC X(130).
000139 01  MAINKEY PIC X.
000140 01  KEY1  PIC X.
:
000264 01  KEY125 PIC X.
000265 01  KEY126 PIC X.
000270 END PROGRAM C1267.
```

C1267.cob 134: JMN1267I-S The ALTERNATE RECORD KEY must not exceed 125.

**JMN1268I-S**

---

**A qualifier must follow the connective word OF or IN. OF or IN is ignored.**

Example

```
[C1268.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1268.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01  WK-TBL.
```

```

000006 02 WK      PIC X OCCURS 255
000007          DEPENDING ON LENGCNT OF.
000008 01 AREA1.
000009 02 LENGCNT PIC S9(4) BINARY.
000010 END PROGRAM C1268.

```

C1268.cob 7: JMN1268I-S A qualifier must follow the connective word OF or IN. OF or IN is ignored.

## JMN1269I-S

**SEPARATE must precede CHARACTER in the SIGN clause. SEPARATE is assumed.**

### Example

```

[C1269.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1269.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 DATA-1 PIC S9(4) SIGN LEADING CHARACTER.
000006 END PROGRAM     C1269.

```

C1269.cob 5: JMN1269I-S SEPARATE must precede CHARACTER in the SIGN clause. SEPARATE is assumed.

## JMN1271I-S

**The number of index-names specified for one item must not exceed 60. The first 60 index-names are used.**

### Example

```

[C1271.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1271.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A-TBL.
000006 02 DATA-1 PIC X OCCURS 3
000007          INDEXED BY I0 I1 I2 I3 I4 I5 I6 I7 I8 I9 I10
000008                    I11 I12 I13 I14 I15 I16 I17 I18 I19 I20
000009                    I21 I22 I23 I24 I25 I26 I27 I28 I29 I30
000010                    I31 I32 I33 I34 I35 I36 I37 I38 I39 I40
000011                    I41 I42 I43 I44 I45 I46 I47 I48 I49 I50
000012                    I51 I52 I53 I54 I55 I56 I57 I58 I59 I60.
000013 END PROGRAM     C1271.

```

C1271.cob 12: JMN1271I-S The number of index-names specified for one item must not exceed 60. The first 60 index-names are used.

## JMN1273I-S

**EXEC @1@ cannot be specified in the CONSTANT SECTION.**

### Parameter Explanation

@1@ : AQL,SQL

### Example

```

[C1273.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1273
000003 DATA            DIVISION.
000004 CONSTANT          SECTION.
000005 EXEC SQL BEGIN DECLARE SECTION END-EXEC.

```

```
000006 EXEC SQL END DECLARE SECTION END-EXEC.  
000007 END PROGRAM C1273.
```

C1273.cob 5: JMN1273I-S EXEC SQL cannot be specified in the CONSTANT SECTION.

## JMN1275I-S

**The INCLUDE @1@ statement is duplicated.**

Parameter Explanation

@1@ : AQLCA

Example

```
[C1275.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1275.  
000003 DATA DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005 EXEC AQL INCLUDE AQLCA END-EXEC.  
000006 EXEC AQL INCLUDE AQLCA END-EXEC.  
000007 PROCEDURE DIVISION.  
000008 END PROGRAM C1275.
```

C1275.cob 6: JMN1275I-S The INCLUDE AQLCA statement is duplicated.

## JMN1276I-S

**The syntax of the EXEC AQL statement is invalid.**

Example

```
[C1276.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1276.  
000003 DATA DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005 EXEC AQL INCLUDE AQLCA.  
000006 END PROGRAM C1276.
```

C1276.cob 5: JMN1276I-S The syntax of the EXEC AQL statement is invalid.

## JMN1278I-S

**An END DECLARE SECTION is specified, but no BEGIN DECLARE SECTION is specified.**

Example

```
[C1278.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1278.  
000003 DATA DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005 EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 HOSTV1.  
000007 02 HNUM PIC S9(4) BINARY.  
000008 02 HNAME PIC X(30).  
000009 EXEC SQL END DECLARE SECTION END-EXEC.  
000010 01 HOSTV2.  
000011 02 HNUM PIC S9(8) BINARY.  
000012 02 HNAME PIC X(30).  
000013 EXEC SQL END DECLARE SECTION END-EXEC.  
000014 END PROGRAM C1278.
```

C1278.cob 13: JMN1278I-S An END DECLARE SECTION is specified, but no BEGIN DECLARE SECTION is specified.

### JMN1279I-S

**The END DECLARE SECTION statement is duplicated.**

Example

```
[C1279.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1279.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC AQL BEGIN DECLARE SECTION END-EXEC.
000006 01 HOSTV1.
000007 02 HNUM           PIC S9(4) BINARY.
000008 02 HNAME          PIC X(30).
000009     EXEC AQL END DECLARE SECTION END-EXEC.
000010     EXEC AQL END DECLARE SECTION END-EXEC.
000011 END PROGRAM C1279.
```

C1279.cob 10: JMN1279I-S The END DECLARE SECTION statement is duplicated.

### JMN1280I-S

**The syntax of the BEGIN DECLARE SECTION statement is invalid.**

Example

```
[C1280.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1280.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE END-EXEC.
000006 01 HOSTV1.
000007 02 HNUM           PIC S9(4) BINARY.
000008 02 HNAME          PIC X(30).
000009     EXEC SQL END DECLARE SECTION END-EXEC.
000010 END PROGRAM C1280.
```

C1280.cob 5: JMN1280I-S The syntax of the BEGIN DECLARE SECTION statement is invalid.

### JMN1281I-S

**The syntax of the END DECLARE SECTION statement is invalid.**

Example

```
[C1281.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1281.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 HOSTV1.
000007 02 HNUM           PIC S9(4) BINARY.
000008 02 HNAME          PIC X(30).
000009     EXEC SQL END DECLARE END-EXEC.
000010 END PROGRAM C1281.
```

C1281.cob 9: JMN1281I-S The syntax of the END DECLARE SECTION statement is invalid.

## JMN1282I-S

The integer in the OCCURS clause must not exceed 2147483647. 2147483647 is assumed.

### Example

```
[C1282.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1282.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 MAINTBL.
000006 02 DATA-1 PIC X OCCURS 2147483648.
000007 END PROGRAM     C1282.
```

C1282.cob 6: JMN1282I-S The integer in the OCCURS clause must not exceed 2147483647. 2147483647 is assumed.

## JMN1284I-S

The FILE-CONTROL paragraph is not specified. A FILE-CONTROL paragraph is assumed to be specified.

### Example

```
[C1284.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1284.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005     SELECT IN-F ASSIGN TO INFILE.
000006 DATA            DIVISION.
000007 FILE              SECTION.
000008 FD IN-F.
000009 01 IN-R PIC X(80).
000010 END PROGRAM     C1284.
```

C1284.cob 5: JMN1284I-S The FILE-CONTROL paragraph is not specified. A FILE-CONTROL paragraph is assumed to be specified.

## JMN1285I-S

An I-O-CONTROL paragraph is not specified. an I-O-CONTROL paragraph is assumed to be specified.

### Example

```
[C1285.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1285.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN TO INFILE.
000007     SELECT OUT-F ASSIGN TO OUTFILE.
000008     SAME IN-F OUT-F.
000009 DATA            DIVISION.
000010 FILE              SECTION.
000011 FD IN-F.
000012 01 IN-R PIC X(80).
000013 FD OUT-F.
000014 01 OUT-R PIC X(80).
000015 END PROGRAM     C1285.
```

C1285.cob 8: JMN1285I-S An I-O-CONTROL paragraph is not specified. an I-O-CONTROL paragraph is assumed to be specified.

## JMN1286I-S

---

**A period must end the 'EXEC AQL' statement included in the 'INCLUDE AQLCA' statement.**

Example

```
[C1286.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1286.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC AQL INCLUDE AQLCA END-EXEC
000006 PROCEDURE        DIVISION.
000007 END PROGRAM      C1286.
```

C1286.cob 5: JMN1286I-S A period must end the 'EXEC AQL' statement included in the 'INCLUDE AQLCA' statement.

### JMN1287I-S

---

**The alphabet-name specified in the SYMBOLIC CHARACTERS clause is defined multiple times.**

Example

```
[C1287.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1287.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION     SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET
000007         HUGO1 IS NATIVE
000008         HUGO1 IS EBCDIC
000009     SYMBOLIC CHARACTERS
000010         A IS 1 IN HUGO1
000011         B IS 2 IN HUGO1.
000012 END PROGRAM      C1287.
```

C1287.cob 9: JMN1287I-S The alphabet-name specified in the SYMBOLIC CHARACTERS clause is defined multiple times.

### JMN1288I-S

---

**The alphabet-name specified in the PROGRAM COLLATING SEQUENCE clause is defined multiple times.**

Example

```
[C1288.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1288.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION     SECTION.
000005 OBJECT-COMPUTER.  A
000006     PROGRAM COLLATING SEQUENCE IS HUGO1.
000007 SPECIAL-NAMES.
000008     ALPHABET
000009         HUGO1 IS NATIVE
000010         HUGO1 IS EBCDIC.
000011 END PROGRAM      C1288.
```

C1288.cob 6: JMN1288I-S The alphabet-name specified in the PROGRAM COLLATING SEQUENCE clause is defined multiple times.

### JMN1291I-S

---

**A program-name paragraph must be specified in the IDENTIFICATION DIVISION.**



## Example

```
[C1291.cob]
000001 PROGRAM-ID.      C1291.
000002 IDENTIFICATION  DIVISION.
000003 END PROGRAM     C1291.
```

C1291.cob 3: JMN1291I-S A program-name paragraph must be specified in the IDENTIFICATION DIVISION.

## JMN1292I-S

---

**An invalid character-string @2@ is specified as the @1@-name, or the @1@-name is missing.**

### Parameter Explanation

@1@ : PROGRAM, CLASS, METHOD, PROPERTY

@2@ : Invalid character-string

## Example

```
[C1292.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1292.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 PROCEDURE       DIVISION.
000006 PROGRAM-ID.     1292.
000007 END PROGRAM     I1292.
000008 END PROGRAM     C1292.
```

C1292.cob 6: JMN1292I-S An invalid character-string is specified as the program-name, or the program-name is missing.

## Explanation

Please follow the rule of the user-defined word about the program-name.

Moreover, only the character expressible by Shift JIS code can be used in the program-name, class-name, method-name or property-name. When the character not expressible by the Shift JIS code is used, the character string that converts a corresponding character into "?" in the message is output.

## JMN1294I-S

---

**'@1@' cannot be specified as the data-name after a level-number. win,os4 words before the next level-number are ignored.**

### Parameter Explanation

@1@ : data name after level number

## JMN1298I-S

---

**The syntax of the @1@ phrase in the OCCURS clause is invalid. The phrases following this phrase in the OCCURS clause are ignored.**

### Parameter Explanation

@1@ : DEPENDING ON,KEY IS,INDEXED BY

## Example

```
[C1298.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1298.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 TBL1.
```

```
000006 02 DATA-1 PIC X OCCURS 2 ASCENDING KEY "C1298".
000007 END PROGRAM C1298.
```

C1298.cob 6: JMN1298I-S The syntax of the KEY IS phrase in the OCCURS clause is invalid. The phrases following this phrase in the OCCURS clause are ignored.

## JMN1299I-S

**An INCLUDE AQLCA statement cannot be specified in an AQL VARIABLE DECLARE SECTION.**

### Example

```
[C1299.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1299.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 EXEC AQL BEGIN DECLARE SECTION END-EXEC.
000006 EXEC AQL INCLUDE AQLCA END-EXEC.
000007 EXEC AQL END DECLARE SECTION END-EXEC.
000008 END PROGRAM C1299.
```

C1299.cob 6: JMN1299I-S An INCLUDE AQLCA statement cannot be specified in an AQL VARIABLE DECLARE SECTION.

## JMN1301I-S

**An OCCURS clause cannot be specified for a level 01 or level 77 item.**

### Example

```
[C1301.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1301.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WK-TBL OCCURS 2.
000006 02 DATA1 PIC 9.
000007 END PROGRAM C1301.
```

C1301.cob 5: JMN1301I-S An OCCURS clause cannot be specified for a level 01 or level 77 item.

## JMN1302I-S

**An EXTERNAL clause can be specified only for a file description (FD) entry in a FILE SECTION, or an 01 level item in a WORKING-STORAGE SECTION.**

### Example

```
[C1302.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1302.
000003 DATA DIVISION.
000004 CONSTANT SECTION.
000005 01 CONST1 PIC 9(2) VALUE 10 EXTERNAL.
000006 END PROGRAM C1302.
```

C1302.cob 5: JMN1302I-S An EXTERNAL clause can be specified only for a file description (FD) entry in a FILE SECTION, or an 01 level item in a WORKING-STORAGE SECTION.

### Explanation

Example when EXTERNAL phrase is described in a file description entry:

- OK

```
000090 DATA          DIVISION.
000100 FILE           SECTION.
000110 FD MSGFILE IS EXTERNAL.
000120 01 INFDAT.
000130 02 INFNUM      PIC S9(8) BINARY.
000140 02 INFMSG     PIC X(50).
```

- NG

```
000090 DATA          DIVISION.
000100 FILE           SECTION.
000110 FD MSGFILE
000120 01 INFDAT IS EXTERNAL.
000130 02 INFNUM      PIC S9(8) BINARY.
000140 02 INFMSG     PIC X(50).
```

### JMN1303I-S

**The EXTERNAL clause and the REDEFINES clause cannot be specified for the same data item. The REDEFINES clause is ignored.**

Example

```
[C1303.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     C1303.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 MOJI PIC X(5) VALUE "ABCDE".
000006 01 REMOJI REDEFINES MOJI EXTERNAL.
000007 02 DATA1 PIC X.
000008 END PROGRAM     C1303.
```

C1303.cob 6: JMN1303I-S The EXTERNAL clause and the REDEFINES clause cannot be specified for the same data item. The REDEFINES clause is ignored.

### JMN1304I-S

**The GLOBAL clause can be specified only for a level 01 item in a FILE SECTION, a WORKING-STORAGE SECTION, a CONSTANT SECTION, or a BASED-STORAGE SECTION.**

Example

```
[C1304.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     C1304.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 P1 POINTER.
000006 01 WK-TBL.
000007 02 DATA-2 PIC X(5) GLOBAL.
000008 END PROGRAM     C1304.
```

C1304.cob 7: JMN1304I-S The GLOBAL clause can be specified only for a level 01 item in a FILE SECTION, a WORKING-STORAGE SECTION, a CONSTANT SECTION, or a BASED-STORAGE SECTION.

### JMN1305I-S

**The file control entry requires an ASSIGN clause.**

## Example

```
[C1305.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1305.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT INFILE.
000007 END PROGRAM C1305.
```

C1305.cob 6: JMN1305I-S The file control entry requires an ASSIGN clause.

## JMN1306I-S

**The organization of the ASSIGN clause conflicts with the ORGANIZATION clause. The ORGANIZATION clause is ignored.**

### Example

```
[C1306.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C1306.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT INFILE ASSIGN TO DB1-RDB-SYS1
000008 ORGANIZATION IS RELATIVE.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD INFILE.
000012 01 INREC.
000013 02 KEY1 PIC X(80).
000014 END PROGRAM C1306.
```

C1306.cob 8: JMN1306I-S The organization of the ASSIGN clause conflicts with the ORGANIZATION clause. The ORGANIZATION clause is ignored.

## JMN1307I-S

**The organization of the ASSIGN clause conflicts with the ORGANIZATION clause. The ASSIGN clause is ignored.**

### Example

```
[C1307.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C1307.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT INFILE ASSIGN TO DB1-D-SYS1
000008 ORGANIZATION IS RELATIVE.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD INFILE.
000012 01 INREC.
000013 02 KEY1 PIC X(80).
000014 END PROGRAM C1307.
```

C1307.cob 7: JMN1307I-S The organization of the ASSIGN clause conflicts with the ORGANIZATION clause. The ASSIGN clause is ignored.

## JMN1308I-S

**For the RDB file, INDEXED must be specified in the ORGANIZATION clause. INDEXED is assumed.**

### Example

```
[C1308.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C1308.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007     SELECT INFILE ASSIGN TO DB1-RDB-SYS1
000008     RECORD KEY IS KEY1.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD INFILE.
000012 01 INREC.
000013 02 KEY1 PIC X(80).
000014 END PROGRAM C1308.
```

C1308.cob 7: JMN1308I-S For the RDB file, INDEXED must be specified in the ORGANIZATION clause. INDEXED is assumed.

## JMN1309I-S

**For a sequential file, SEQUENTIAL must be specified in the ACCESS MODE clause. SEQUENTIAL is assumed.**

### Example

```
[C1309.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1309.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT INFILE ASSIGN TO SYS1
000007     ACCESS MODE IS DYNAMIC.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD INFILE.
000011 01 INREC.
000012 02 KEY1 PIC X(80).
000013 END PROGRAM C1309.
```

C1309.cob 7: JMN1309I-S For a sequential file, SEQUENTIAL must be specified in the ACCESS MODE clause. SEQUENTIAL is assumed.

## JMN1310I-S

**DYNAMIC cannot be specified in the ACCESS MODE clause for a direct organization file, relative organization file, or indexed organization file. RANDOM is assumed.**

### Example

```
[C1310.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1310.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS014-DA-I-OUTDATA
000007     RECORD KEY IS SQFRKEY
```

```

000008     NOMINAL KEY  IS SQFNKEY
000009     ACCESS MODE  IS DYNAMIC
000010     .
000011 DATA           DIVISION.
000012 FILE            SECTION.
000013 FD SQFILE1.
000014 01 SQF1REC.
000015 02 SQFRKEY     PIC X.
000016 02 SQFID001   PIC X(256).
000017 02 SQFDAT     PIC X(30).
000018 WORKING-STORAGE SECTION.
000019 01 SQFNKEY     PIC X.
000020 END PROGRAM C1310.

```

C1310.cob 9: JMN1310I-S DYNAMIC cannot be specified in the ACCESS MODE clause for a direct organization file, relative organization file, or indexed organization file. RANDOM is assumed.

## JMN1312I-S

**A RESERVE clause with ALTERNATE or NO can be specified only for sequential, relative organization, indexed organization or direct organization files.**

### Example

```

[C1312.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1312.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN S1-VS-NAME
000007     ORGANIZATION RELATIVE
000008     RESERVE NO ALTERNATE
000009     .
000010 DATA           DIVISION.
000011 FILE            SECTION.
000012 FD IN-F.
000013 01 IN-R PIC X(80).
000014 END PROGRAM     C1312.

```

C1312.cob 8: JMN1312I-S A RESERVE clause with ALTERNATE or NO can be specified only for sequential, relative organization, indexed organization or direct organization files.

## JMN1313I-S

**A TRACK-AREA clause can only be specified for an indexed organization file of random access mode.**

### Example

```

[C1313.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1313.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN I-SYS000
000007     ORGANIZATION INDEXED
000008     ACCESS MODE IS RANDOM
000009     RECORD KEY IS IN-R
000010     TRACK-AREA IS 8
000011     .
000012 DATA           DIVISION.
000013 FILE            SECTION.
000014 FD IN-F.

```

```
000015 01 IN-R PIC X(80).
000016 END PROGRAM C1313.
```

C1313.cob 10: JMN1313I-S A TRACK-AREA clause can only be specified for an indexed organization file of random access mode.

## JMN1314I-S

**The TRACK-LIMIT clause can be specified only for a direct organization file.**

### Example

```
[C1314.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1314.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN SYS000
000007     ACCESS MODE IS SEQUENTIAL
000008     TRACK-LIMIT IS 1
000009     .
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD IN-F.
000013 01 IN-R PIC X(80).
000014 END PROGRAM C1314.
```

C1314.cob 8: JMN1314I-S The TRACK-LIMIT clause can be specified only for a direct organization file.

## JMN1315I-S

**A FILE STATUS clause cannot be specified for a direct organization file, a relative organization file, or an indexed organization file.**

### Example

```
[C1315.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1315.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN SYS000-DA-S1-D-NAME
000007     ACCESS MODE IS SEQUENTIAL
000008     ACTUAL KEY IS K1
000009     FILE STATUS IS FSTAT
000010     .
000011 DATA DIVISION.
000012 FILE SECTION.
000013 FD IN-F.
000014 01 IN-R PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 FSTAT PIC XX.
000017 01 K1 PIC X(10).
000018 END PROGRAM C1315.
```

C1315.cob 9: JMN1315I-S A FILE STATUS clause cannot be specified for a direct organization file, a relative organization file, or an indexed organization file.

## JMN1317I-S

**A CONTROL AREA clause can be specified only for a presentation file.**

## Example

```
[C1317.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1317.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN SYS000
000007     CONTROL AREA IS ABC
000008     .
000009 DATA           DIVISION.
000010 FILE             SECTION.
000011 FD  IN-F.
000012 01  IN-R  PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 01  ABC  PIC XX.
000015 END PROGRAM     C1317.
```

C1317.cob 7: JMN1317I-S A CONTROL AREA clause can be specified only for a presentation file.

## JMN1318I-S

---

**The NOMINAL KEY clause can be specified only for an indexed organization file.**

### Example

```
[C1318.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1318.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN SYS000
000007     NOMINAL KEY IS K1
000008     .
000009 DATA           DIVISION.
000010 FILE             SECTION.
000011 FD  IN-F.
000012 01  IN-R  PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 01  K1   PIC XX.
000015 END PROGRAM     C1318.
```

C1318.cob 7: JMN1318I-S The NOMINAL KEY clause can be specified only for an indexed organization file.

## JMN1319I-S

---

**The RELATIVE KEY clause can be specified only for a relative file.**

### Example

```
[C1319.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1319.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT INFILE ASSIGN TO SYS001
000007     RELATIVE KEY IS KEY1.
000008 DATA           DIVISION.
000009 FILE             SECTION.
000010 FD  INFILE.
000011 01  INREC.
```



```
000012 02 KEY1 PIC 9(4).
000013 02 BDDAT PIC X(80).
000014 END PROGRAM C1319.
```

C1319.cob 7: JMN1319I-S The RELATIVE KEY clause can be specified only for a relative file.

## JMN1320I-S

**A RELATIVE KEY clause must be specified for a relative file of random or dynamic access mode.**

### Example

```
[C1320.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1320.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT INFILE ASSIGN TO SYS001
000007 ORGANIZATION IS RELATIVE
000008 ACCESS MODE IS DYNAMIC.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD INFILE.
000012 01 INREC.
000013 02 KEY1 PIC X(80).
000014 END PROGRAM C1320.
```

C1320.cob 6: JMN1320I-S A RELATIVE KEY clause must be specified for a relative file of random or dynamic access mode.

## JMN1321I-S

**A NOMINAL KEY clause must be specified for an indexed organization file of random access mode.**

### Example

```
[C1321.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1321.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN SYS000-DA-S1-I-NAME
000007 ACCESS MODE IS RANDOM
000008 RECORD KEY IS IN-R
000009 TRACK-AREA IS 32
000010 .
000011 DATA DIVISION.
000012 FILE SECTION.
000013 FD IN-F.
000014 01 IN-R PIC X(80).
000015 END PROGRAM C1321.
```

C1321.cob 6: JMN1321I-S A NOMINAL KEY clause must be specified for an indexed organization file of random access mode.

## JMN1322I-S

**The RECORD KEY clause can be specified only for an indexed file.**

### Example

```
[C1322.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1322.
```

```

000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT INFILE ASSIGN TO SYS001
000007     ORGANIZATION IS SEQUENTIAL
000008     RECORD KEY IS KEY1.
000009 DATA              DIVISION.
000010 FILE                SECTION.
000011 FD  INFILE.
000012 01  INREC.
000013 02  KEY1          PIC X(80).
000014 END PROGRAM C1322.

```

C1322.cob 8: JMN1322I-S The RECORD KEY clause can be specified only for an indexed file.

## JMN1323I-S

**A RECORD KEY clause must be specified for an indexed file.**

### Example

```

[C1323.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1323.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT INFILE ASSIGN TO DISK
000007     ORGANIZATION IS INDEXED.
000008 DATA              DIVISION.
000009 FILE                SECTION.
000010 FD  INFILE.
000011 01  INREC.
000012 02  KEY1          PIC X(80).
000013 END PROGRAM     C1323.

```

C1323.cob 6: JMN1323I-S A RECORD KEY clause must be specified for an indexed file.

## JMN1324I-S

**The ACTUAL KEY clause can be specified only for a direct organization file.**

### Example

```

[C1324.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1324.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN SYS001
000007     ACTUAL KEY IS FKEY1
000008     .
000009 DATA              DIVISION.
000010 FILE                SECTION.
000011 FD  IN-F.
000012 01  INFILED.
000013 02  FKEY1          PIC 9(4).
000014 02  IN-R          PIC X(80).
000015 END PROGRAM     C1324.

```

C1324.cob 7: JMN1324I-S The ACTUAL KEY clause can be specified only for a direct organization file.

## JMN1325I-S

**An ACTUAL KEY clause must be specified for a direct file of random access mode.**

### Example

```
[C1325.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1325.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN D-SYS001
000007     ACCESS MODE  IS RANDOM
000008     TRACK-LIMIT  IS 100
000009     .
000010 DATA           DIVISION.
000011 FILE             SECTION.
000012 FD  IN-F.
000013 01  IN-R         PIC X(80).
000014 END PROGRAM C1325.
```

C1325.cob 6: JMN1325I-S An ACTUAL KEY clause must be specified for a direct file of random access mode.

## JMN1326I-S

**The ALTERNATE RECORD KEY clause can be specified only for an indexed file.**

### Example

```
[C1326.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1326.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN SYS000
000007     RECORD KEY      IS FNO
000008     ALTERNATE RECORD KEY IS FGPNO
000009     .
000010 DATA           DIVISION.
000011 FILE             SECTION.
000012 FD  IN-F.
000013 01  IN-R.
000014 02  FNO          PIC 9(4).
000015 02  FGP          PIC 9(4).
000016 02  FNAME        PIC X(30).
000017 END PROGRAM C1326.
```

C1326.cob 8: JMN1326I-S The ALTERNATE RECORD KEY clause can be specified only for an indexed file.

## JMN1327I-S

**A DUPLICATES phrase in a RECORD KEY clause can be specified only for an indexed file.**

### Example

```
[C1327.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1327.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN I-SYS000
000007     RECORD KEY IS FNO WITH DUPLICATES
```

```

000008      ORGANIZATION IS SEQUENTIAL
000009      WITH DUPLICATES
000010      .
000011 DATA          DIVISION.
000012 FILE           SECTION.
000013 FD  IN-F.
000014 01  IN-R.
000015 02  FNO          PIC 9(4).
000016 02  FNAME       PIC X(30).
000017 END PROGRAM C1327.

```

C1327.cob 9: JMN1327I-S A DUPLICATES phrase in a RECORD KEY clause can be specified only for an indexed file.

## JMN1329I-S

**An EXTERNAL clause or a GLOBAL clause cannot be specified for a filler item. The EXTERNAL clause or GLOBAL clause is ignored.**

### Example

```

[C1329.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1329.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01              PIC X IS GLOBAL.
000006 01              PIC 9 IS EXTERNAL.
000007 01 FILLER PIC X IS GLOBAL.
000008 01 FILLER PIC 9 IS EXTERNAL.
000009 END PROGRAM     C1329.

```

C1329.cob 5: JMN1329I-S An EXTERNAL clause or a GLOBAL clause cannot be specified for a filler item. The EXTERNAL clause or GLOBAL clause is ignored.

C1329.cob 6: JMN1329I-S An EXTERNAL clause or a GLOBAL clause cannot be specified for a filler item. The EXTERNAL clause or GLOBAL clause is ignored.

C1329.cob 7: JMN1329I-S An EXTERNAL clause or a GLOBAL clause cannot be specified for a filler item. The EXTERNAL clause or GLOBAL clause is ignored.

C1329.cob 8: JMN1329I-S An EXTERNAL clause or a GLOBAL clause cannot be specified for a filler item. The EXTERNAL clause or GLOBAL clause is ignored.

## JMN1330I-S

**The name in the file-identifier '@1@' is invalid. The file-identifier is ignored.**

### Parameter Explanation

@1@ : file identifier

### Example

```

[C1330.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION  DIVISION.
000003 PROGRAM-ID.     C1330.
000004 ENVIRONMENT     DIVISION.
000005 INPUT-OUTPUT     SECTION.
000006 FILE-CONTROL.
000007     SELECT IN-F ASSIGN SYS000000.
000008 DATA           DIVISION.
000009 FILE           SECTION.
000010 FD  IN-F.

```

```
000011 01 IN-R PIC X(80).
000012 END PROGRAM C1330.
```

C1330.cob 7: JMN1330I-S The name in the file-identifier 'SYS000000' is invalid. The file-identifier is ignored.

### JMN1338I-I

**(CONF)For the LANGLVL(74) option, lower-case 'a' through 'z' can be specified in the CURRENCY SIGN clause as a currency symbol. For the LANGLVL(68) option, lower-case 'a' through 'z' or special-character '/' or '=' can be specified in the CURRENCY SIGN clause as a currency symbol.**

#### Example

```
[C1338.cob]
000001 @OPTIONS CONF(74),LANGLVL(85)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C1338.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 SPECIAL-NAMES.
000007 CURRENCY SIGN IS "a".
000008 END PROGRAM C1338.
```

C1338.cob 7: JMN1338I-I (CONF)For the LANGLVL(74) option, lower-case 'a' through 'z' can be specified in the CURRENCY SIGN clause as a currency symbol. For the LANGLVL(68) option, lower-case 'a' through 'z' or special-character '/' or '=' can be specified in the CURRENCY SIGN clause as a currency symbol.

### JMN1339I-I

**(CONF)For the LANGLVL(68) option, the editing character '/' is ignored.**

#### Example

```
[C1339.cob]
000001 @OPTIONS CONF(68),LANGLVL(85)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C1339.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 DATA-1 PIC 9/9.
000009 END PROGRAM C1339.
```

C1339.cob 8: JMN1339I-I (CONF)For the LANGLVL(68) option, the editing character '/' is ignored.

### JMN1340I-I

**(CONF)Special register SORT-STATUS is specified in the PROCEDURE DIVISION.**

#### Example

```
[C1340.cob]
000001 @OPTIONS CONF(74,V4),LANGLVL(85)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C1340.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT SORT-F ASSIGN TO SFILE.
000008 SELECT OUT-F ASSIGN TO OUTFILE.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD OUT-F.
```

```

000012 01  OUT-R          PIC X(160).
000013 SD  SORT-F.
000014 01  SORT-R.
000015  02  DATA-1      PIC X(80).
000016  02  KEY1         PIC 9.
000017 PROCEDURE        DIVISION.
000018     SORT SORT-F ASCENDING KEY KEY1
000019     INPUT PROCEDURE A
000020     GIVING OUT-F.
000021 A.
000022     DISPLAY SORT-STATUS
000023 END PROGRAM        C1340.

```

C1340.cob 22: JMN1340I-I (CONF)Special register SORT-STATUS is specified in the PROCEDURE DIVISION.

### JMN1342I-I

**(CONF)The PROGRAM-ID paragraph is not specified, or an invalid program-name is specified. A 'NOPRGMID' program-name is assumed.**

#### Example

```

[C1342.cob]
000001 @OPTIONS CONF(74,V4),LANGLVL(85)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      1342.
000004 END PROGRAM      1342.

```

C1342.cob 3: JMN1342I-I (CONF)The PROGRAM-ID paragraph is not specified, or an invalid program-name is specified. A 'NOPRGMID' program-name is assumed.

### JMN1343I-I

**(CONF)An alphabet-name having a CONSTANT phrase with ALSO is specified in a PROGRAM COLLATING SEQUENCE clause and a figurative constant HIGH-VALUE or LOW-VALUE is referenced.**

#### Example

```

[C1343.cob]
000001 @OPTIONS CONF(74,V10),LANGLVL(85)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C1343.
000004 ENVIRONMENT     DIVISION.
000005 CONFIGURATION  SECTION.
000006 OBJECT-COMPUTER. OBJ1
000007     PROGRAM COLLATING SEQUENCE IS HUGO1.
000008 SPECIAL-NAMES.
000009     ALPHABET HUGO1 IS LOW-VALUE  ALSO HIGH-VALUE.
000010 DATA           DIVISION.
000011 WORKING-STORAGE SECTION.
000012 01  DATA-1     PIC 9(4).
000013 PROCEDURE      DIVISION.
000014     IF DATA-1 = HIGH-VALUE THEN
000015     DISPLAY "HIGH-VALUE!"
000016     END-IF.
000017 END PROGRAM      C1343.

```

C1343.cob 14: JMN1343I-I (CONF)An alphabet-name having a CONSTANT phrase with ALSO is specified in a PROGRAM COLLATING SEQUENCE clause and a figurative constant HIGH-VALUE or LOW-VALUE is referenced.

### JMN1353I-S

**The syntax of the WITH DEBUGGING MODE clause is invalid.**

## Example

```
[C1353.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1353.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SOURCE-COMPUTER.
000006     S-COMP WITH DEBUG MODE.
000007 END PROGRAM     C1353.
```

C1353.cob 6: JMN1353I-S The syntax of the WITH DEBUGGING MODE clause is invalid.

## JMN1354I-W

**The integer of the TRACK-AREA clause must be a multiple of 8. The integer is truncated to a multiple of 8.**

### Example

```
[C1354.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1354.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT MSGFILE ASSIGN TO I-INFILE
000007     ACCESS MODE   IS RANDOM
000008     RECORD KEY     IS INFNUM
000009     NOMINAL KEY    IS WINF
000010     TRACK-AREA   IS 9
000011     .
000012 DATA           DIVISION.
000013 FILE              SECTION.
000014 FD MSGFILE.
000015 01 INFDAT.
000016 02 INFNUM        PIC S9(8) BINARY.
000017 02 INFMSG        PIC X(50).
000018 WORKING-STORAGE SECTION.
000019 01 WINF           PIC S9(8) BINARY.
000020 END PROGRAM C1354.
```

C1354.cob 10: JMN1354I-W The integer of the TRACK-AREA clause must be a multiple of 8. The integer is truncated to a multiple of 8.

## JMN1355I-S

**A level 88 item must be specified after an item with level 01 to 49 or 77. The level 88 item is ignored.**

### Example

```
[C1355.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1355.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 88 WK1            VALUE 0.
000006 01 WORK1          PIC 9.
000007 END PROGRAM       C1355.
```

C1355.cob 5: JMN1355I-S A level 88 item must be specified after an item with level 01 to 49 or 77. The level 88 item is ignored.

## JMN1356I-W

---

**The invalid word '@1@' is specified in the IDENTIFICATION DIVISION. The invalid word is ignored, and the compiler skips to the next paragraph or DIVISION.**

Parameter Explanation

@1@ : invalid word

Example

```
[C1356.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1356 1122.
000003 END PROGRAM     C1356.
```

C1356.cob 2: JMN1356I-W The invalid word '1122' is specified in the IDENTIFICATION DIVISION. The invalid word is ignored, and the compiler skips to the next paragraph or DIVISION.

### JMN1357I-S

---

**The data-name must be specified immediately after level-number 66.**

Example

```
[C1357.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1357.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01  A1  PIC X.
000006 66              RENAMES A1.
000007 END PROGRAM     C1357.
```

C1357.cob 6: JMN1357I-S The data-name must be specified immediately after level-number 66.

### JMN1358I-W

---

**The REDEFINES clause must be the first clause in the data description entry. The REDEFINES clause is assumed to be valid.**

Example

```
[C1358.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1358.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01  A1  PIC X.
000006 01  B1 GLOBAL REDEFINES A1.
000007 END PROGRAM     C1358.
```

C1358.cob 6: JMN1358I-W The REDEFINES clause must be the first clause in the data description entry. The REDEFINES clause is assumed to be valid.

### JMN1359I-S

---

**'@1@' cannot be specified as the currency symbol.**

Parameter Explanation

@1@ : invalid word

Example

```
[C1359.cob]
000001 IDENTIFICATION DIVISION.
```



```

000002 PROGRAM-ID.      C1359.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     CURRENCY SIGN IS "A".
000007 END PROGRAM     C1359.

```

C1359.cob 6: JMN1359I-S "A" cannot be specified as the currency symbol.

### Explanation

The following characters must not be specified in literal-1 of the CURRENCY SIGN phrase:

- Numeric characters: 0 to 9
- Uppercase alphabetic characters: A B C D E G N P R S V X Z
- Lowercase alphabetic characters: a to z Space character
- Special characters: \* + - , . ; ( ) / = ' "

### JMN1360I-S

**An unsigned integer, nonnumeric literal, or figurative constant must be specified in the THROUGH or ALSO phrase of an ALPHABET clause. The alphabet name '@1@' is ignored.**

#### Parameter Explanation

@1@ : alphabet-name

#### Example

```

[C1360.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1360.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET ALP1 IS 1 THROUGH -1.
000007 END PROGRAM     C1360.

```

C1360.cob 6: JMN1360I-S An unsigned integer, nonnumeric literal, or figurative constant must be specified in the THROUGH or ALSO phrase of an ALPHABET clause. The alphabet name 'ALP1' is ignored.

### JMN1362I-S

**The organization in the file-identifier '@1@' is invalid. The file-identifier is ignored.**

#### Parameter Explanation

@1@ : file identifier

#### Example

```

[C1362.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION  DIVISION.
000003 PROGRAM-ID.     C1362.
000004 ENVIRONMENT     DIVISION.
000005 INPUT-OUTPUT    SECTION.
000006 FILE-CONTROL.
000007     SELECT IN-F ASSIGN SYS000-DA-S1-SP-NAME.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD IN-F.

```

```
000011 01 IN-R PIC X(80).
000012 END PROGRAM C1362.
```

C1362.cob 7: JMN1362I-S The organization in the file-identifier 'SYS000-DA-S1-SP-NAME' is invalid. The file-identifier is ignored.

## JMN1363I-W

**When a device class in a file-identifier is PTR or PTP, the organization must be 'S'. The device class is ignored.**

### Example

```
[C1363.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C1363.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT IN-F ASSIGN SYS000-PTR-S1-SP-NAME.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD IN-F.
000011 01 IN-R PIC X(80).
000012 END PROGRAM C1363.
```

C1363.cob 7: JMN1363I-W When a device class in a file-identifier is PTR or PTP, the organization must be 'S'. The device class is ignored.

## JMN1371I-S

**The database-name or table-name in the file-identifier '@1@' is invalid.**

### Parameter Explanation

@1@ : file identifier

### Example

```
[C1371.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C1371.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT IN-F ASSIGN TO SYS000-DA-S1-RDB-D1.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD IN-F.
000011 01 IN-R PIC X(80).
000012 END PROGRAM C1371.
```

C1371.cob 7: JMN1371I-S The database-name or table-name in the file-identifier 'SYS000-DA-S1-RDB-D1' is invalid.

## JMN1373I-S

**The record format 'U' cannot be specified for a sort-merge file.**

### Example

```
[C1373.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1373.
000003 ENVIRONMENT DIVISION.
```

```

000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN SYS000.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 SD IN-F RECORDING MODE IS U.
000010 01 IN-R PIC X(80).
000011 END PROGRAM C1373.

```

C1373.cob 9: JMN1373I-S The record format 'U' cannot be specified for a sort-merge file.

## JMN1376I-S

**An invalid word '@2@' is specified immediately after level number '@1@'. It is assumed that this data description has no name.**

### Parameter Explanation

@1@ : level-number

@2@ : Invalid word

### Example

```

[C1376.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1376.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 123 PIC 9.
000006 END PROGRAM C1376.

```

C1376.cob 5: JMN1376I-S An invalid word '123' is specified immediately after level number '01'. It is assumed that this data description has no name.

### Explanation

Please follow the rule of the user-defined word about the data-name.

## JMN1377I-S

**A level item of 02 to 49 cannot be specified immediately after a 66 level item. A level item of 01 is assumed.**

### Example

```

[C1377.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1377.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WORK1.
000006 02 NAMEINF PIC 1(8).
000007 02 NAMELG PIC S9(4) BINARY.
000008 02 NAMESP PIC X(30).
000009 66 NAME-FIX RENAMES NAMEINF THRU NAMELG.
000010 02 WORK2 PIC 9.
000011 END PROGRAM C1377.

```

C1377.cob 10: JMN1377I-S A level item of 02 to 49 cannot be specified immediately after a 66 level item. A level item of 01 is assumed.

## JMN1388I-W

**The mnemonic-name is missing after 'IS' in the FUNCTION-NAME clause. 'IS' is ignored.**

## Example

```
[C1388.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1388.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 SPECIAL-NAMES.
000006     SWITCH-0 IS ON STATUS IS SW1.
000007 END PROGRAM      C1388.
```

C1388.cob 6: JMN1388I-W The mnemonic-name is missing after 'IS' in the FUNCTION-NAME clause. 'IS' is ignored.

## JMN1390I-S

**The BASED ON clause can be specified only for a level 01 or 77 item in the BASED-STORAGE SECTION.**

### Example

```
[C1390.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1390.
000003 DATA            DIVISION.
000004 BASED-STORAGE    SECTION.
000005 01 BS-TBL.
000006 02 DATA-1 PIC X(5) BASED ON P1.
000007 END PROGRAM      C1390.
```

C1390.cob 6: JMN1390I-S The BASED ON clause can be specified only for a level 01 or 77 item in the BASED-STORAGE SECTION.

## JMN1391I-S

**The REDEFINES clause and the BASED ON clause cannot be specified for the same data item. The BASED ON clause is ignored.**

### Example

```
[C1391.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1391.
000003 DATA            DIVISION.
000004 BASED-STORAGE    SECTION.
000005 01 BS-TBL.
000006 02 DATA-1 PIC X(5).
000007 02 DATA-2 PIC X(3).
000008 01 RE-TBL REDEFINES BS-TBL BASED ON P1.
000009 02 REDATA-1 PIC X(4).
000010 02 REDATA-2 PIC X(4).
000011 END PROGRAM      C1391.
```

C1391.cob 8: JMN1391I-S The REDEFINES clause and the BASED ON clause cannot be specified for the same data item. The BASED ON clause is ignored.

## JMN1393I-S

**The syntax of the SYMBOLIC CONSTANT clause is invalid.**

### Example

```
[C1393.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1393.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
```

```
000005 SPECIAL-NAMES.  
000006     SYMBOLIC CONSTANT  
000007     VALUES IS 10.  
000008 END PROGRAM      C1393.
```

C1393.cob 6: JMN1393I-S The syntax of the SYMBOLIC CONSTANT clause is invalid.

#### Explanation

Please follow the rule of the user-defined word about the symbolic-constant.

### JMN1394I-S

---

**The literal in the SYMBOLIC CONSTANT clause must be a numeric literal, a nonnumeric literal, a national literal, a Boolean literal, or a hexadecimal nonnumeric literal.**

#### Example

```
[C1394.cob]  
000001 @OPTIONS NOSD  
000002 IDENTIFICATION DIVISION.  
000003 PROGRAM-ID.      C1394.  
000004 ENVIRONMENT     DIVISION.  
000005 CONFIGURATION   SECTION.  
000006 SPECIAL-NAMES.  
000007     SYMBOLIC CONSTANT  
000008     CON1 IS CON2  
000009     .  
000010 END PROGRAM      C1394.
```

C1394.cob 8: JMN1394I-S The literal in the SYMBOLIC CONSTANT clause must be a numeric literal, a nonnumeric literal, a national literal, a Boolean literal, or a hexadecimal nonnumeric literal.

### JMN1395I-S

---

**The symbolic constant '@1@' is not unique.**

#### Parameter Explanation

@1@ : name of symbolic constant

#### Example

```
[C1395.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      C1395.  
000003 ENVIRONMENT     DIVISION.  
000004 CONFIGURATION   SECTION.  
000005 SPECIAL-NAMES.  
000006     SYMBOLIC CONSTANT  
000007     CON1 IS 1  
000008     CON2 IS 2  
000009     CON1 IS 3.  
000010 DATA           DIVISION.  
000011 WORKING-STORAGE SECTION.  
000012 01 DATA-1 PIC 9 VALUE CON1.  
000013 END PROGRAM      C1395.
```

C1395.cob 12: JMN1395I-S The symbolic constant 'CON1' is not unique.

### JMN1396I-S

---

**The symbolic constant '@1@' cannot be specified in the '@2@' clause.**

## Parameter Explanation

@1@ : name of symbolic constant

@2@ : Clause for which symbolic constant can be specified

## Example

```
[C1396.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1396.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     SYMBOLIC CONSTANT
000007     CON1 IS "MAX".
000008 DATA           DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WK-TBL.
000011 02 ITEM1 PIC X OCCURS CON1.
000012 END PROGRAM    C1396.
```

C1396.cob 11: JMN1396I-S The symbolic constant 'CON1' cannot be specified in the 'OCCURS' clause.

## JMN1397I-S

---

**The GLOBAL clause can be specified only for a level 01 item in the BASED-STORAGE SECTION, FILE SECTION, WORKING-STORAGE SECTION, CONSTANT SECTION, or LINKAGE SECTION.**

## Example

```
[C1397.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1397.
000003 DATA           DIVISION.
000004 BASED-STORAGE   SECTION.
000005 01 WK-TBL.
000006 02 ITEM1 IS GLOBAL.
000007 03 ITEM2 PIC 9.
000008 END PROGRAM    C1397.
```

C1397.cob 6: JMN1397I-S The GLOBAL clause can be specified only for a level 01 item in the BASED-STORAGE SECTION, FILE SECTION, WORKING-STORAGE SECTION, CONSTANT SECTION, or LINKAGE SECTION.

## JMN1401I-S (**Win32**)

---

**The PICTURE character-string must be 1 through 18 digit positions. PICTURE 9 is assumed.**

## Example

```
[C1401.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1401.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC S9(19).
000007 01 B PIC *(19).
000008 01 C PIC 9(10)P(9).
000009 END PROGRAM    C1401.
```

C1401.cob 6: JMN1401I-S The PICTURE character-string must be 1 through 18 digit positions. PICTURE 9 is assumed.

C1401.cob 7: JMN1401I-S The PICTURE character-string must be 1 through 18 digit positions. PICTURE 9 is assumed.

C1401.cob 8: JMN1401I-S The PICTURE character-string must be 1 through 18 digit positions. PICTURE 9 is assumed.

## JMN1401I-S ([Winx64])

---

The PICTURE character-string must be 1 through @1@ digit positions. PICTURE 9 is assumed.

### Parameter Explanation

@1@ : Maximum number of digits allowed in the PICTURE character-string.

### Example

```
[C1401.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1401.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC S9(19).
000007 01 B PIC *(19).
000008 01 C PIC 9(10)P(9).
000009 END PROGRAM C1401.
```

C1401.cob 6: JMN1401I-S The PICTURE character-string must be 1 through 18 digit positions. PICTURE 9 is assumed.

C1401.cob 7: JMN1401I-S The PICTURE character-string must be 1 through 18 digit positions. PICTURE 9 is assumed.

C1401.cob 8: JMN1401I-S The PICTURE character-string must be 1 through 18 digit positions. PICTURE 9 is assumed.

## JMN1402I-S

---

The symbols S, V, '.', CR, and DB can appear only once in the PICTURE character-string. PICTURE 9 is assumed.

### Example

```
[C1402.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1402.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC SS9.
000007 01 B PIC V9V.
000008 01 C PIC 9..9.
000009 PROCEDURE DIVISION.
000010 STOP RUN.
```

C1402.cob 6: JMN1402I-S The symbols S, V, '.', CR, and DB can appear only once in the PICTURE character-string. PICTURE 9 is assumed.

C1402.cob 7: JMN1402I-S The symbols S, V, '.', CR, and DB can appear only once in the PICTURE character-string. PICTURE 9 is assumed.

C1402.cob 8: JMN1402I-S The symbols S, V, '.', CR, and DB can appear only once in the PICTURE character-string. PICTURE 9 is assumed.

## JMN1404I-S

---

The symbol 'S' must appear as the leftmost character in the PICTURE character-string. PICTURE 9 is assumed.

### Example

```
[C1404.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1404.
000003 ENVIRONMENT DIVISION.
```

```

000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9S.
000007 01 B PIC 0S9.
000008 01 C PIC VS9.
000009 01 D PIC PS9.
000010 PROCEDURE DIVISION.
000011     STOP RUN.

```

C1404.cob 6: JMN1404I-S The symbol 'S' must appear as the leftmost character in the PICTURE character-string. PICTURE 9 is assumed.

C1404.cob 7: JMN1404I-S The symbol 'S' must appear as the leftmost character in the PICTURE character-string. PICTURE 9 is assumed.

C1404.cob 8: JMN1404I-S The symbol 'S' must appear as the leftmost character in the PICTURE character-string. PICTURE 9 is assumed.

C1404.cob 9: JMN1404I-S The symbol 'S' must appear as the leftmost character in the PICTURE character-string. PICTURE 9 is assumed.

## JMN1405I-S

**'P' is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.**

### Example

```

[C1405.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1405.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9PB.
000007 01 B PIC BP9.
000008 01 C PIC PV9.
000009 01 D PIC P9V.
000010 01 E PIC ++P9.
000011 01 F PIC P9P.
000012 PROCEDURE DIVISION.
000013     STOP RUN.

```

C1405.cob 6: JMN1405I-S 'P' is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.

C1405.cob 7: JMN1405I-S 'P' is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.

C1405.cob 8: JMN1405I-S 'P' is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.

C1405.cob 9: JMN1405I-S 'P' is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.

C1405.cob 10: JMN1405I-S 'P' is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.

C1405.cob 11: JMN1405I-S 'P' is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.

### Explanation

A "P" may appear in the leftmost or rightmost digit position of a picture clause.

## JMN1411I-S

**The symbols '+', '-', '\*', 'Z', and the currency symbol, when used as floating replacement characters, are mutually exclusive in a PICTURE character-string. PICTURE 9 is assumed.**

### Example

```

[C1411.cob]
000001 IDENTIFICATION DIVISION.

```



```

000002 PROGRAM-ID. C1411.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC ++Z.
000007 01 B PIC \\Z.
000008 01 C PIC *--.
000009 01 D PIC *Z.
000010 01 E PIC +++-.
000011 01 F PIC --\\.
000012 01 G PIC \\++.
000013 PROCEDURE DIVISION.
000014     STOP RUN.

```

C1411.cob 6: JMN1411I-S The symbols '+', '-', '\*', 'Z', and the currency symbol, when used as floating replacement characters, are mutually exclusive in a PICTURE character-string. PICTURE 9 is assumed.

C1411.cob 7: JMN1411I-S The symbols '+', '-', '\*', 'Z', and the currency symbol, when used as floating replacement characters, are mutually exclusive in a PICTURE character-string. PICTURE 9 is assumed.

C1411.cob 8: JMN1411I-S The symbols '+', '-', '\*', 'Z', and the currency symbol, when used as floating replacement characters, are mutually exclusive in a PICTURE character-string. PICTURE 9 is assumed.

C1411.cob 9: JMN1411I-S The symbols '+', '-', '\*', 'Z', and the currency symbol, when used as floating replacement characters, are mutually exclusive in a PICTURE character-string. PICTURE 9 is assumed.

C1411.cob 10: JMN1411I-S The symbols '+', '-', '\*', 'Z', and the currency symbol, when used as floating replacement characters, are mutually exclusive in a PICTURE character-string. PICTURE 9 is assumed.

C1411.cob 11: JMN1411I-S The symbols '+', '-', '\*', 'Z', and the currency symbol, when used as floating replacement characters, are mutually exclusive in a PICTURE character-string. PICTURE 9 is assumed.

C1411.cob 12: JMN1411I-S The symbols '+', '-', '\*', 'Z', and the currency symbol, when used as floating replacement characters, are mutually exclusive in a PICTURE character-string. PICTURE 9 is assumed.

## JMN1412I-S

**A floating insertion character or a zero suppression character cannot be preceded by a '9' in the PICTURE character-string. PICTURE 9 is assumed.**

### Example

```

[C1412.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1412.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9Z.
000007 01 B PIC 9++.
000008 01 C PIC 9\\.
000009 PROCEDURE DIVISION.
000010     STOP RUN.

```

C1412.cob 6: JMN1412I-S A floating insertion character or a zero suppression character cannot be preceded by a '9' in the PICTURE character-string. PICTURE 9 is assumed.

C1412.cob 7: JMN1412I-S A floating insertion character or a zero suppression character cannot be preceded by a '9' in the PICTURE character-string. PICTURE 9 is assumed.

C1412.cob 8: JMN1412I-S A floating insertion character or a zero suppression character cannot be preceded by a '9' in the PICTURE character-string. PICTURE 9 is assumed.

## JMN1413I-S

---

**Only one kind of character can be used to specify digit positions to the right of the decimal point in a PICTURE character-string. PICTURE 9 is assumed.**

Example

```
[C1413.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1413.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC *.*9.
000007 01 B PIC +V+9.
000008 01 C PIC .\9.
000009 PROCEDURE DIVISION.
000010 STOP RUN.
```

C1413.cob 6: JMN1413I-S Only one kind of character can be used to specify digit positions to the right of the decimal point in a PICTURE character-string. PICTURE 9 is assumed.

C1413.cob 7: JMN1413I-S Only one kind of character can be used to specify digit positions to the right of the decimal point in a PICTURE character-string. PICTURE 9 is assumed.

C1413.cob 8: JMN1413I-S Only one kind of character can be used to specify digit positions to the right of the decimal point in a PICTURE character-string. PICTURE 9 is assumed.

## JMN1414I-S

---

**The symbols '+', '-', 'CR', and 'DB' are mutually exclusive in a PICTURE character-string. PICTURE 9 is assumed.**

Example

```
[C1414.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1414.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC +9CR.
000007 01 B PIC --DB.
000008 PROCEDURE DIVISION.
000009 STOP RUN.
```

C1414.cob 6: JMN1414I-S The symbols '+', '-', 'CR', and 'DB' are mutually exclusive in a PICTURE character-string. PICTURE 9 is assumed.

C1414.cob 7: JMN1414I-S The symbols '+', '-', 'CR', and 'DB' are mutually exclusive in a PICTURE character-string. PICTURE 9 is assumed.

## JMN1416I-S

---

**A decimal point cannot be specified with a 'V' or 'P' in a PICTURE character-string. PICTURE 9 is assumed.**

Example

```
[C1416.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1416.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9V.9.
000007 01 B PIC 9.V9.
000008 01 C PIC .P9.
```

```
000009 PROCEDURE DIVISION.  
000010     STOP RUN.
```

C1416.cob 6: JMN1416I-S A decimal point cannot be specified with a 'V' or 'P' in a PICTURE character-string. PICTURE 9 is assumed.

C1416.cob 7: JMN1416I-S A decimal point cannot be specified with a 'V' or 'P' in a PICTURE character-string. PICTURE 9 is assumed.

C1416.cob 8: JMN1416I-S A decimal point cannot be specified with a 'V' or 'P' in a PICTURE character-string. PICTURE 9 is assumed.

## JMN1418I-S

**The length of a numeric edited item must not exceed 160 bytes. PICTURE 9 is assumed.**

### Example

```
[C1418.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1418.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01 A PIC /(150)9(15).  
000007 PROCEDURE DIVISION.  
000008     STOP RUN.
```

C1418.cob 6: JMN1418I-S The length of a numeric edited item must not exceed 160 bytes. PICTURE 9 is assumed.

## JMN1421I-S

**A fixed insertion character '+', '-' or currency symbol is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.**

### Example

```
[C1421.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1421.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01 A PIC 9\  
000007 01 B PIC \  
000008 01 C PIC B\  
000009 01 D PIC V\  
000010 01 E PIC 9+P.  
000011 01 F PIC 9+B.  
000012 01 G PIC ++9+.  
000013 01 H PIC \  
000014 01 I PIC +9+.  
000015 PROCEDURE DIVISION.  
000016     STOP RUN.
```

C1421.cob 6: JMN1421I-S A fixed insertion character '+', '-' or currency symbol is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.

C1421.cob 7: JMN1421I-S A fixed insertion character '+', '-' or currency symbol is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.

C1421.cob 8: JMN1421I-S A fixed insertion character '+', '-' or currency symbol is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.

C1421.cob 9: JMN1421I-S A fixed insertion character '+', '-' or currency symbol is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.

C1421.cob 10: JMN1421I-S A fixed insertion character '+', '-' or currency symbol is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.

C1421.cob 11: JMN1421I-S A fixed insertion character '+', '-' or currency symbol is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.

C1421.cob 12: JMN1421I-S A fixed insertion character '+', '-' or currency symbol is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.

C1421.cob 13: JMN1421I-S A fixed insertion character '+', '-' or currency symbol is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.

C1421.cob 14: JMN1421I-S A fixed insertion character '+', '-' or currency symbol is specified at an invalid position in the PICTURE character-string. PICTURE 9 is assumed.

## JMN1423I-S

**The number of digits in the mantissa must be from 1 to 16 when specifying the PICTURE character-string for an external floating-point item. PICTURE +9.E+99 is assumed.**

### Example

```
[C1423.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1423.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC +9.9(20)E+99.
000007 PROCEDURE DIVISION.
000008     STOP RUN.
```

C1423.cob 6: JMN1423I-S The number of digits in the mantissa must be from 1 to 16 when specifying the PICTURE character-string for an external floating-point item. PICTURE +9.E+99 is assumed.

## JMN1424I-W

**A sign must be specified for both the mantissa and exponent in the PICTURE character-string for an external floating-point item. A plus sign '+' is assumed.**

### Example

```
[C1424.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1424.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9.9E+99.
000007 01 B PIC +9.9E99.
000008 PROCEDURE DIVISION.
000009     STOP RUN.
```

C1424.cob 6: JMN1424I-W A sign must be specified for both the mantissa and exponent in the PICTURE character-string for an external floating-point item. A plus sign '+' is assumed.

C1424.cob 7: JMN1424I-W A sign must be specified for both the mantissa and exponent in the PICTURE character-string for an external floating-point item. A plus sign '+' is assumed.

## JMN1425I-S

**Only one 'E' can be specified in a PICTURE character-string. PICTURE +9.E+99 is assumed.**

### Example

```
[C1425.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1425.
```

```
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01 A PIC +9.9EE+99.  
000007 PROCEDURE DIVISION.  
000008     STOP RUN.
```

C1425.cob 6: JMN1425I-S Only one 'E' can be specified in a PICTURE character-string. PICTURE +9.E+99 is assumed.

### JMN1426I-W

**2 digit positions must be specified for the exponent in a PICTURE character-string of an external floating-point item. 2 digits are assumed.**

#### Example

```
[C1426.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1426.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01 A PIC +9.9E+9.  
000007 PROCEDURE DIVISION.  
000008     STOP RUN.
```

C1426.cob 6: JMN1426I-W 2 digit positions must be specified for the exponent in a PICTURE character-string of an external floating-point item. 2 digits are assumed.

### JMN1427I-W

**A 'V' or a decimal point must be specified for the mantissa in a PICTURE character-string of an external floating-point item. A 'V' is assumed after the last digit of the mantissa.**

#### Example

```
[C1427.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1427.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01 A PIC +99E+99.  
000007 PROCEDURE DIVISION.  
000008     STOP RUN.
```

C1427.cob 6: JMN1427I-W A 'V' or a decimal point must be specified for the mantissa in a PICTURE character-string of an external floating-point item. A 'V' is assumed after the last digit of the mantissa.

### JMN1428I-S

**The PICTURE character-string of the external floating-point item is invalid. PICTURE +9.E+99 is assumed.**

#### Example

```
[C1428.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1428.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01 A PIC 9.9+E+99.  
000007 01 B PIC +9.9E+ZZ.
```

```
000008 PROCEDURE DIVISION.  
000009     STOP RUN.
```

C1428.cob 6: JMN1428I-S The PICTURE character-string of the external floating-point item is invalid. PICTURE +9.E+99 is assumed.

C1428.cob 7: JMN1428I-S The PICTURE character-string of the external floating-point item is invalid. PICTURE +9.E+99 is assumed.

## JMN1434I-S

**An invalid combination is specified in the PICTURE character-string. PICTURE 9 is assumed.**

### Example

```
[C1434.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1434.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01  A PIC S9.9.  
000007 01  B PIC S9,999.  
000008 01  C PIC S***.  
000009 01  D PIC S\9.  
000010 01  E PIC A9,9.  
000011 01  F PIC N9.  
000012 01  G PIC NB/N.  
000013 01  H PIC 1B1.  
000014 01  I PIC S9V9E+99.  
000015 PROCEDURE DIVISION.  
000016     STOP RUN.
```

C1434.cob 6: JMN1434I-S An invalid combination is specified in the PICTURE character-string. PICTURE 9 is assumed.

C1434.cob 7: JMN1434I-S An invalid combination is specified in the PICTURE character-string. PICTURE 9 is assumed.

C1434.cob 8: JMN1434I-S An invalid combination is specified in the PICTURE character-string. PICTURE 9 is assumed.

C1434.cob 9: JMN1434I-S An invalid combination is specified in the PICTURE character-string. PICTURE 9 is assumed.

C1434.cob 10: JMN1434I-S An invalid combination is specified in the PICTURE character-string. PICTURE 9 is assumed.

C1434.cob 11: JMN1434I-S An invalid combination is specified in the PICTURE character-string. PICTURE 9 is assumed.

C1434.cob 12: JMN1434I-S An invalid combination is specified in the PICTURE character-string. PICTURE 9 is assumed.

C1434.cob 13: JMN1434I-S An invalid combination is specified in the PICTURE character-string. PICTURE 9 is assumed.

C1434.cob 14: JMN1434I-S An invalid combination is specified in the PICTURE character-string. PICTURE 9 is assumed.

## JMN1436I-S

**The number defining the number of occurrences of a character in a PICTURE character-string must not exceed 10 digits in length. The first 10 digits are used.**

### Example

```
[C1436.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1436.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01  A PIC B(12345678901)A.  
000007 PROCEDURE DIVISION.  
000008     STOP RUN.
```

C1436.cob 6: JMN1436I-S The number defining the number of occurrences of a character in a PICTURE character-string must not exceed 10 digits in length. The first 10 digits are used.

## JMN1437I-S

**National items and national edited items must not exceed 1073741823 characters in length. 1073741823 characters is assumed.**

### Example

```
[C1437.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1437.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC N(2000000000).
000007 PROCEDURE DIVISION.
000008     STOP RUN.
```

C1437.cob 6: JMN1437I-S National items and national edited items must not exceed 1073741823 characters in length. 1073741823 characters is assumed.

## JMN1438I-S

**Elementary items must not exceed 2147483647 bytes in length. 2147483647 bytes is assumed.**

### Example

```
[C1438.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1438.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC A(2000000000)X(1000000000).
000007 PROCEDURE DIVISION.
000008     STOP RUN.
```

C1438.cob 6: JMN1438I-S Elementary items must not exceed 2147483647 bytes in length. 2147483647 bytes is assumed.

## JMN1439I-W

**When all of the characters indicating numeric digit positions are floating insertion characters, at least one of them must be specified to the left of the decimal point in the PICTURE character-string of the numeric edited item.**

### Example

```
[C1439.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1439.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC .++.
000007 01 B PIC V--.
000008 PROCEDURE DIVISION.
000009     STOP RUN.
```

C1439.cob 6: JMN1439I-W When all of the characters indicating numeric digit positions are floating insertion characters, at least one of them must be specified to the left of the decimal point in the PICTURE character-string of the numeric edited item.

C1439.cob 7: JMN1439I-W When all of the characters indicating numeric digit positions are floating insertion characters, at least one of them must be specified to the left of the decimal point in the PICTURE character-string of the numeric edited item.

## JMN1450I-I

---

The **SEGMENT-LIMIT** clause and the segment-number in the section header are assumed to be a comment.

### Example

```
[C1450.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1450.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 OBJECT-COMPUTER. OBJ1
000006     SEGMENT-LIMIT.
000007 END PROGRAM     C1450.
```

C1450.cob 6: JMN1450I-I The SEGMENT-LIMIT clause and the segment-number in the section header are assumed to be a comment.

## JMN1464I-S

---

An **END DECLARE SECTION** statement must be specified at the end of the **AQL VARIABLE DECLARE SECTION**. An **END DECLARE SECTION** statement is assumed at the end of the section.

### Example

```
[C1464.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1464.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC AQL BEGIN DECLARE SECTION END-EXEC.
000006 01 HNO             PIC S9(4) BINARY.
000007 01 HCTG          PIC X(2).
000008 01 HNAME         PIC X(50).
000009 END PROGRAM C1464.
```

C1464.cob 9: JMN1464I-S An END DECLARE SECTION statement must be specified at the end of the AQL VARIABLE DECLARE SECTION. An END DECLARE SECTION statement is assumed at the end of the section.

## JMN1465I-S

---

Only the following **AQL** statements can be specified for the **WORKING-STORAGE SECTION** and the **LINKAGE SECTION**: **BEGIN DECLARE SECTION**, **END DECLARE SECTION**, **INCLUDE AQLCA**.

### Example

```
[C1465.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1465.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC AQL START AQL END-EXEC.
000006 END PROGRAM C1465.
```

C1465.cob 5: JMN1465I-S Only the following AQL statements can be specified for the WORKING-STORAGE SECTION and the LINKAGE SECTION: BEGIN DECLARE SECTION, END DECLARE SECTION, INCLUDE AQLCA.

## JMN1466I-S

---

The **BEGIN DECLARE SECTION** statement is duplicated in the section.

### Example

```
[C1466.cob]
000001 IDENTIFICATION DIVISION.
```



```

000002 PROGRAM-ID.      C1466.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC AQL BEGIN DECLARE SECTION END-EXEC.
000006 01 HNO            PIC S9(4) BINARY.
000007 01 HCTG          PIC X(2).
000008 01 HNAME         PIC X(50).
000009     EXEC AQL BEGIN DECLARE SECTION END-EXEC.
000010 END PROGRAM      C1466.

```

C1466.cob 9: JMN1466I-S The BEGIN DECLARE SECTION statement is duplicated in the section.

## JMN1469I-S

**When the device class is 'SP' in a file-identifier, 'S' must be specified in the organization. The file-identifier is ignored.**

### Example

```

[C1469.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION  DIVISION.
000003 PROGRAM-ID.      C1469.
000004 ENVIRONMENT      DIVISION.
000005 INPUT-OUTPUT      SECTION.
000006 FILE-CONTROL.
000007     SELECT IN-F ASSIGN TO SP-00-FILE.
000008 DATA              DIVISION.
000009 FILE                SECTION.
000010 FD IN-F.
000011 01 IN-R          PIC X(80).
000012 END PROGRAM      C1469.

```

C1469.cob 7: JMN1469I-S When the device class is 'SP' in a file-identifier, 'S' must be specified in the organization. The file-identifier is ignored.

## JMN1472I-S

**A SQL statement and an AQL statement must not be written in a separately compiled program. The @1@ statement is ignored.**

### Parameter Explanation

@1@ : SQL,AQL

### Example

```

[C1472.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.      C1472.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006     EXEC SQL END DECLARE SECTION END-EXEC.
000007     EXEC AQL BEGIN DECLARE SECTION END-EXEC.
000008     EXEC AQL END DECLARE SECTION END-EXEC.

```

C1472.cob 7: JMN1472I-S A SQL statement and an AQL statement must not be written in a separately compiled program. The AQL statement is ignored.

C1472.cob 8: JMN1472I-S A SQL statement and an AQL statement must not be written in a separately compiled program. The AQL statement is ignored.

## JMN1475I-S

**A character not in the national character set is used in a national user-defined word. The user-defined word is ignored.**

### Example

```
[C1475.cob]
000001 @OPTIONS SRF(FIX,FIX)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C1475.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01                                             あああああ
000007         PIC X.
000008 END PROGRAM C1475.
```

C1475.cob 6: JMN1475I-S A character not in the national character set is used in a national user-defined word. The user-defined word is ignored.

### Explanation

The delimitation of the character-code of the national language user-defined word exceeds the end column position of one line of COBOL source program. The end column position of one line (maximum length) in each reference format is as follows.

- Fixed format : 72 columns(The maximum length is 80 bytes. )
- Variable-length format: 251 columns(The maximum length is 251 bytes. )
- Free format : 251 columns(The maximum length is 251 bytes. )

## JMN1476I-S

**The program-name exceeds 30 characters. The first 30 characters are assumed to be program-name.**

### Example

```
[C1476.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1476.
000003 PROCEDURE DIVISION.
000004 ENTRY "C1476C1476C1476C1476C1476C1476C1476C1476C1476C1476C1476C1476C1476C1476C1476".
000005 END PROGRAM C1476.
```

C1476.cob 4: JMN1476I-S The program-name exceeds 30 characters. The first 30 characters are assumed to be program-name.

### Explanation

The maximum length of the following literals is 60 bytes.

- Program-name literal
- literal-1 of ENTRY statement

## JMN1477I-I

**In this system, '@1@' is assumed to be a comment.**

### Parameter Explanation

@1@ : Clause or function-name treated as comment

### Example

```
[C1477.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1477.
```

```

000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE
000007     ORGANIZATION IS INDEXED
000008     RECORD KEY IS K1 PASSWORD IS P1.
000009 DATA             DIVISION.
000010 FILE              SECTION.
000011 FD IN-F.
000012 01 IN-R PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 01 K1 PIC X(4).
000015 01 P1 PIC X(4).
000016 END PROGRAM      C1477.

```

C1477.cob 8: JMN1477I-I In this system, 'PASSWORD' is assumed to be a comment.

## JMN1478I-W

In this system, '@1@' is assumed to be a comment.

### Parameter Explanation

@1@ : Clause treated as comment

### Example

```

[C1478.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1478.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN TO INFILE
000007     TRACK-AREA IS 8.
000008 DATA             DIVISION.
000009 FILE              SECTION.
000010 FD IN-F.
000011 01 IN-R PIC X(80).
000012 END PROGRAM      C1478.

```

C1478.cob 7: JMN1478I-W In this system, 'TRACK-AREA' is assumed to be a comment.

## JMN1479I-S

The concatenation expression is too long. A literal is created using the first parts of the expression so that it does not exceed the maximum length.

### Example

```

[C1479.cob]
000001 @OPTIONS
000002 IDENTIFICATION  DIVISION.
000003 PROGRAM-ID.     C1479.
000004 ENVIRONMENT     DIVISION.
000005 DATA           DIVISION.
000006 PROCEDURE        DIVISION.
000007     DISPLAY "AAAAAAAAAABBBBBBBBBBCCCCCCCCDDDDDDDDDEEEEEEEEE "
000008     & "FFFFFFFFFGGGGGGGGHHHHHHHHHIIIIIIIIJJJJJJJJ "
000009     & "KKKKKKKKLLLLLLLLLLMMMMMMMMNNNNNNNNNOOOOOOOO "
000010     & "PPPPPPPPPPQQQQQQQQRRRRRRRRSSSSSSSSSTTTTTTTTT "

```

C1479.cob 10: JMN1479I-S The concatenation expression is too long. A literal is created using the first parts of the expression so that it does not exceed the maximum length.

## Explanation

The maximum length of the literal concatenated by the concatenation expression is 160 bytes as well as other literals.

### JMN1480I-S

**A nonnumeric literal, national literal or figurative constant must be specified after '&'. A combination of literals in a concatenation expression is invalid. '&' is ignored.**

#### Example

```
[C1480.cob]
000001 @OPTIONS
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C1480.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007   01  FFFFFFFF PIC X(10) VALUE IS "FFFFFFFF".
000008 PROCEDURE DIVISION.
000009     DISPLAY "AAAAAAAAAABBBBBBBBCCCCCCCCDDDDDDDDDEEEEEEEEE"
000010           &  FFFFFFFF.
```

C1480.cob 10: JMN1480I-S A nonnumeric literal, national literal or figurative constant must be specified after '&'. A combination of literals in a concatenation expression is invalid. '&' is ignored.

### JMN1481I-E

**'@1@' is a function specific to the MSP or XSP system.**

#### Parameter Explanation

@1@ : Word with a function specific to the MSP or XSP system

#### Example

```
[C1481.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1481.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT MSGFILE ASSIGN TO I-INFILE
000007     ACCESS MODE     IS RANDOM
000008     RECORD KEY      IS INFNUM
000009     NOMINAL KEY      IS WINF
000010     TRACK-AREA      IS 256 CHARACTERS
000011     .
000012 DATA            DIVISION.
000013 FILE                SECTION.
000014 FD MSGFILE.
000015 01 INFDAT.
000016 02 INFNUM          PIC S9(8) BINARY.
000017 02 INFMSG          PIC X(50).
000018 WORKING-STORAGE SECTION.
000019 01 WINF              PIC S9(8) BINARY.
000020 END PROGRAM C1481.
```

C1481.cob 6: JMN1481I-E 'indexed organization file' is a function specific to the MSP or XSP system.

C1481.cob 9: JMN1481I-E 'NOMINAL KEY' is a function specific to the MSP or XSP system.

### JMN1482I-S

**The length of the host identifier qualification in an alphanumeric character exceeds in embedded 250 characters. The first 250 characters are accepted.**

Example

```
[C1482.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1482.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 SQLSTATE PIC X(5).
000007 01 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA.
000008 02 BBBBBBBBBBBBBBBBBBBBBBBBBBBB.
000009 03 CCCCCCCCCCCCCCCCCCCCCCCCCC.
000010 04 DDDDDDDDDDDDDDDDDDDDDDDDDDD.
000011 05 EEEEEEEEEEEEEEEEEEEEEEEEEEE.
000012 06 FFFFFFFFFFFFFFFFFFFFFFFFFFFFFF.
000013 07 GGGGGGGGGGGGGGGGGGGGGGGGGGG.
000014 08 HHHHHHHHHHHHHHHHHHHHHHHHHHH.
000015 09 IIIIIIIIIIIIIIIIIIIIIIIIIIIII PIC X(5).
000016 EXEC SQL END DECLARE SECTION END-EXEC.
000017 PROCEDURE DIVISION.
000018 EXEC SQL
000019 DECLARE CUR1 CURSOR FOR
000020 SELECT S1.TABLE
000021 END-EXEC.
000022 EXEC SQL
000023 FETCH CUR1 INTO
000024 :AAAAAAAAAAAAAAAAAAAAAAAAAAAAA.
000025- BBBBBBBBBBBBBBBBBBBBBBBBBBBB.
000026- CCCCCCCCCCCCCCCCCCCCCCCCCC.
000027- DDDDDDDDDDDDDDDDDDDDDDDDDDD.
000028- EEEEEEEEEEEEEEEEEEEEEEEEEEE.
000029- FFFFFFFFFFFFFFFFFFFFFFFFFFFFFF.
000030- GGGGGGGGGGGGGGGGGGGGGGGGGGG.
000031- HHHHHHHHHHHHHHHHHHHHHHHHHHH.
000032- IIIIIIIIIIIIIIIIIIIIIIIIIIIII
000033 END-EXEC.
```

C1482.cob 23: JMN1482I-S The length of the host identifier qualification in an alphanumeric character exceeds in embedded 250 characters. The first 250 characters are accepted.

### JMN1486I-I

**A tab is included in a literal. The tab is accepted as code.**

Example

```
[C1486.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1486.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 ITEM1 PIC X(4) VALUE "ABC ".
000006 END PROGRAM C1486.
```

C1486.cob 5: JMN1486I-I A tab is included in a literal. The tab is accepted as code.

### JMN1487I-S

**When a literal is continued across lines, the first nonblank character of the continuation line must be a quotation mark, and the continued line must be terminated by a quotation mark followed by a hyphen.**

## Example

```
[C1487.cob]
@OPTIONS SRF(FREE)
IDENTIFICATION DIVISION.
PROGRAM-ID. C1487.
ENVIRONMENT DIVISION.
DATA DIVISION.
PROCEDURE DIVISION.
DISPLAY "123456789ABCDEF" -
123456789ABCDEF".
END PROGRAM C1487.
```

C1487.cob 7: JMN1487I-S When a literal is continued across lines, the first nonblank character of the continuation line must be a quotation mark, and the continued line must be terminated by a quotation mark followed by a hyphen.

## JMN1488I-S

**When a literal is continued across lines, at least one character position in the content of the literal must be specified on the continued line and on each continuation line.**

## Example

```
[C1488.cob]
@OPTIONS SRF(FREE)
IDENTIFICATION DIVISION.
PROGRAM-ID. C1488.
ENVIRONMENT DIVISION.
DATA DIVISION.
PROCEDURE DIVISION.
DISPLAY "MESSAGE " -
" " -
"DISPLAY".
END PROGRAM C1488.
```

C1488.cob 7: JMN1488I-S When a literal is continued across lines, at least one character position in the content of the literal must be specified on the continued line and on each continuation line.

## JMN1489I-S

**The ending quotation mark of the literal is missing. The characters to end of the program-text area are assumed to be the literal.**

## Example

```
[C1489.cob]
@OPTIONS SRF(FREE)
IDENTIFICATION DIVISION.
PROGRAM-ID. C1489.
ENVIRONMENT DIVISION.
DATA DIVISION.
PROCEDURE DIVISION.
DISPLAY "MESSAGE DISPLAY
.
END PROGRAM C1489.
```

C1489.cob 7: JMN1489I-S The ending quotation mark of the literal is missing. The characters to end of the program-text area are assumed to be the literal.

## JMN1490I-S

---

**When the compilation option ENCODE(UTF8,UTF16) or ENCODE(UTF8,UTF32) is specified, then in the concatenation expression, national hexadecimal, a nonnumeric literal cannot be defined. The concatenation expression will be disabled.**

**Example**

```
[P1490.cob]
00001 @OPTIONS ENCODE(UTF8)
00002 IDENTIFICATION DIVISION.
00003 PROGRAM-ID. P1490.
00004 ENVIRONMENT DIVISION.
00005 DATA DIVISION.
00006 PROCEDURE DIVISION.
00007 DISPLAY NC"A" & NX"3044"
00008 .
00009 END PROGRAM P1490.
```

P1490.cob 7: When the compilation option ENCODE(UTF8,UTF16) or ENCODE(UTF8,UTF32) is specified, then in the concatenation expression, national hexadecimal, a nonnumeric literal cannot be defined. The concatenation expression will be disabled.

**JMN1500I-S**

---

**In the TYPE clause, HEADING or FOOTING must be specified immediately after REPORT, PAGE, or CONTROL.**

**Example**

```
[C1500.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1500.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 REPORT SECTION.
000011 RD RPT-F.
000012 01 RPT1 PIC X(10) TYPE REPORT.
000013 END PROGRAM C1500.
```

C1500.cob 12: JMN1500I-S In the TYPE clause, HEADING or FOOTING must be specified immediately after REPORT, PAGE, or CONTROL.

**JMN1501I-S**

---

**0 cannot be specified as the integer in the COLUMN NUMBER clause. 1 is assumed.**

**Example**

```
[C1501.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1501.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 REPORT SECTION.
000011 RD RPT-F.
000012 01 HEAD01 TYPE IS RH.
```

```
000013 01 FOOT01 TYPE IS RF COLUMN NUMBER IS 0.
000014 END PROGRAM C1501.
```

C1501.cob 13: JMN1501I-S 0 cannot be specified as the integer in the COLUMN NUMBER clause. 1 is assumed.

## JMN1502I-S

**The integer in the COLUMN NUMBER clause must not exceed 32767. 32767 is assumed.**

### Example

```
[C1502.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1502.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 REPORT SECTION.
000011 RD RPT-F.
000012 01 HEAD01 TYPE IS RH.
000013 01 FOOT01 TYPE IS RF COLUMN NUMBER IS 32768.
000014 END PROGRAM C1502.
```

C1502.cob 13: JMN1502I-S The integer in the COLUMN NUMBER clause must not exceed 32767. 32767 is assumed.

## JMN1503I-S

**Data-name or FINAL must be specified for RESET in the SUM clause. RESET is ignored.**

### Example

```
[C1503.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1503.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 WORKING-STORAGE SECTION.
000011 01 A1 PIC X.
000012 01 A2 PIC X.
000013 01 A PIC 9.
000014 REPORT SECTION.
000015 RD RPT-F CONTROL IS A1 A2 A.
000016 01 HEAD01 TYPE IS RH.
000017 01 CONH01 TYPE IS CONTROL HEADING A1.
000018 01 CONF01 TYPE IS CONTROL FOOTING A2.
000019 02 DATA-1 PIC X(10) SUM A RESET.
000020 01 FOOT01 TYPE IS RF.
000021 END PROGRAM C1503.
```

C1503.cob 19: JMN1503I-S Data-name or FINAL must be specified for RESET in the SUM clause. RESET is ignored.

## JMN1504I-S

**A data-name must be specified for UPON in the SUM clause. UPON is ignored.**



## Example

```
[C1504.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1504.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 WORKING-STORAGE SECTION.
000011 01 A1 PIC X.
000012 01 A2 PIC X.
000013 01 A PIC 9.
000014 REPORT SECTION.
000015 RD RPT-F CONTROL IS A1 A2 A.
000016 01 HEAD01 TYPE IS RH.
000017 01 CONH01 TYPE IS CONTROL HEADING A1.
000018 01 CONF01 TYPE IS CONTROL FOOTING A2.
000019 02 DATA-1 PIC X(10) SUM A UPON.
000020 01 FOOT01 TYPE IS RF.
000021 END PROGRAM C1504.
```

C1504.cob 19: JMN1504I-S A data-name must be specified for UPON in the SUM clause. UPON is ignored.

## JMN1505I-S

**A report-name must be specified immediately after the connective word OF or IN of PAGE-COUNTER or LINE-COUNTER in a SOURCE clause. OF or IN is ignored.**

## Example

```
[C1505.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1505.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 WORKING-STORAGE SECTION.
000011 01 A1 PIC X.
000012 01 A2 PIC X.
000013 01 A PIC 9.
000014 REPORT SECTION.
000015 RD RPT-F CONTROL IS A1 A2 A.
000016 01 HEAD01 TYPE IS RH.
000017 01 CONH01 TYPE IS CONTROL HEADING A1.
000018 02 DATA-1 PIC X SOURCE IS PAGE-COUNTER OF.
000019 01 CONF01 TYPE IS CONTROL FOOTING A2.
000020 01 FOOT01 TYPE IS RF.
000021 END PROGRAM C1505.
```

C1505.cob 18: JMN1505I-S A report-name must be specified immediately after the connective word OF or IN of PAGE-COUNTER or LINE-COUNTER in a SOURCE clause. OF or IN is ignored.

## JMN1506I-W

---

**The nonnumeric literal in the CODE clause must be 2 characters. If the nonnumeric literal is 1 character, then the second byte is assumed to be blank. Otherwise, the first 2 characters are accepted.**

**Example**

```
[C1506.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1506.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 WORKING-STORAGE SECTION.
000011 01 A1 PIC X.
000012 01 A2 PIC X.
000013 01 A PIC 9.
000014 REPORT SECTION.
000015 RD RPT-F CODE "ABC" CONTROL IS A1 A2 A.
000016 01 HEAD01 TYPE IS RH.
000017 01 CONH01 TYPE IS CONTROL HEADING A1.
000018 01 CONF01 TYPE IS CONTROL FOOTING A2.
000019 01 FOOT01 TYPE IS RF.
000020 END PROGRAM C1506.
```

C1506.cob 15: JMN1506I-W The nonnumeric literal in the CODE clause must be 2 characters. If the nonnumeric literal is 1 character, then the second byte is assumed to be blank. Otherwise, the first 2 characters are accepted.

**JMN1507I-S**

---

**The integer of the PAGE LIMIT clause must not exceed 999. 999 is assumed.**

**Example**

```
[C1507.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1507.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 WORKING-STORAGE SECTION.
000011 01 A1 PIC X.
000012 01 A2 PIC X.
000013 01 A PIC 9.
000014 REPORT SECTION.
000015 RD RPT-F PAGE LIMIT 1000 CONTROL IS A1 A2 A.
000016 01 HEAD01 TYPE IS RH.
000017 01 CONH01 TYPE IS CONTROL HEADING A1.
000018 01 CONF01 TYPE IS CONTROL FOOTING A2.
000019 01 FOOT01 TYPE IS RF.
000020 END PROGRAM C1507.
```

C1507.cob 15: JMN1507I-S The integer of the PAGE LIMIT clause must not exceed 999. 999 is assumed.

**JMN1508I-S**

---

**0 cannot be specified as an integer in the PAGE LIMIT clause. 999 is assumed.**

## Example

```
[C1508.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1508.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 REPORT SECTION.
000011 RD RPT-F PAGE LIMIT 0.
000012 01 HEAD01 TYPE IS RH.
000013 01 FOOT01 TYPE IS RF.
000014 END PROGRAM C1508.
```

C1508.cob 11: JMN1508I-S 0 cannot be specified as an integer in the PAGE LIMIT clause. 999 is assumed.

## JMN1509I-S

**The syntax of the PAGE clause is invalid.**

### Example

```
[C1509.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1509.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 REPORT SECTION.
000011 RD RPT-F PAGE LIMIT "A".
000012 01 HEAD01 TYPE IS RH.
000013 01 FOOT01 TYPE IS RF.
000014 END PROGRAM C1509.
```

C1509.cob 11: JMN1509I-S The syntax of the PAGE clause is invalid.

## JMN1510I-S

**In the PAGE clause, an integer must be specified immediately after HEADING, FIRST DETAIL, LAST DETAIL, or FOOTING.**

### Example

```
[C1510.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1510.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 REPORT SECTION.
000011 RD RPT-F PAGE LIMIT 10 HEADING.
000012 01 HEAD01 TYPE IS RH.
```

```
000013 01 FOOT01 TYPE IS RF.
000014 END PROGRAM      C1510.
```

C1510.cob 11: JMN1510I-S In the PAGE clause, an integer must be specified immediately after HEADING, FIRST DETAIL, LAST DETAIL, or FOOTING.

## JMN1511I-S

**In the PAGE clause, DETAIL must be specified immediately after FIRST or LAST. The PAGE clause description after FIRST or LAST is ignored.**

### Example

```
[C1511.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1511.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F  ASSIGN INFILE.
000007 DATA            DIVISION.
000008 FILE             SECTION.
000009 FD  IN-F REPORT RPT-F.
000010 REPORT          SECTION.
000011 RD  RPT-F PAGE  LIMIT 10 FIRST.
000012 01 HEAD01 TYPE IS RH.
000013 01 FOOT01 TYPE IS RF.
000014 END PROGRAM     C1511.
```

C1511.cob 11: JMN1511I-S In the PAGE clause, DETAIL must be specified immediately after FIRST or LAST. The PAGE clause description after FIRST or LAST is ignored.

## JMN1512I-S

**The integers in the PAGE clause must be in following order: HEADING, FIRST DETAIL, LAST DETAIL, FOOTING, PAGE LIMIT. Only the integer specified in PAGE LIMIT is assumed to be valid.**

### Example

```
[C1512.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1512.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F  ASSIGN INFILE.
000007 DATA            DIVISION.
000008 FILE             SECTION.
000009 FD  IN-F REPORT RPT-F.
000010 REPORT          SECTION.
000011 RD  RPT-F PAGE  LIMIT 10 HEADING 1
000012                                FIRST DETAIL 5
000013                                LAST  DETAIL 3
000014                                FOOTING 10.
000015 01 HEAD01 TYPE IS RH.
000016 01 FOOT01 TYPE IS RF.
000017 END PROGRAM     C1512.
```

C1512.cob 11: JMN1512I-S The integers in the PAGE clause must be in following order: HEADING, FIRST DETAIL, LAST DETAIL, FOOTING, PAGE LIMIT. Only the integer specified in PAGE LIMIT is assumed to be valid.

## JMN1513I-S

---

**The integer in the @1@ phrase must not exceed 999, and must not be 0.**

**Parameter Explanation**

@1@ : HEADING, FIRST DETAIL, LAST DETAIL, FOOTING

**Example**

```
[C1513.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1513.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 REPORT SECTION.
000011 RD RPT-F PAGE LIMIT 10 HEADING 1000
000012     FOOTING 0.
000013 01 HEAD01 TYPE IS RH.
000014 01 FOOT01 TYPE IS RF.
000015 END PROGRAM C1513.
```

C1513.cob 11: JMN1513I-S The integer in the HEADING phrase must not exceed 999, and must not be 0.

C1513.cob 12: JMN1513I-S The integer in the FOOTING phrase must not exceed 999, and must not be 0.

**JMN1514I-S**

---

**'@1@' is already specified in the PAGE clause.**

**Parameter Explanation**

@1@ : HEADING, FIRST DETAIL, LAST DETAIL, FOOTING

**Example**

```
[C1514.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1514.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 REPORT SECTION.
000011 RD RPT-F PAGE LIMIT 10 HEADING 1
000012     HEADING 5.
000013 01 HEAD01 TYPE IS RH.
000014 01 FOOT01 TYPE IS RF.
000015 END PROGRAM C1514.
```

C1514.cob 12: JMN1514I-S 'HEADING' is already specified in the PAGE clause.

**JMN1515I-S**

---

**The syntax of the LINE NUMBER clause is invalid.**

**Example**

```
[C1515.cob]
000001 IDENTIFICATION DIVISION.
```

```

000002 PROGRAM-ID.      C1515.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD  IN-F REPORT RPT-F.
000010 REPORT         SECTION.
000011 RD  RPT-F PAGE LIMIT 10.
000012 01  HEAD01 TYPE IS RH LINE NUMBER PLUS "AB".
000013 01  FOOT01 TYPE IS RF.
000014 END PROGRAM     C1515.

```

C1515.cob 12: JMN1515I-S The syntax of the LINE NUMBER clause is invalid.

## JMN1516I-S

**The integer in the @1@ clause must not exceed 999. 999 is assumed.**

### Parameter Explanation

@1@ : LINE NUMBER, NEXT GROUP

### Example

```

[C1516.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1516.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD  IN-F REPORT RPT-F.
000010 REPORT         SECTION.
000011 RD  RPT-F PAGE LIMIT 10.
000012 01  HEAD01 TYPE IS RH LINE NUMBER 1000
000013                                NEXT GROUP 1000.
000014 01  FOOT01 TYPE IS RF.
000015 END PROGRAM     C1516.

```

C1516.cob 12: JMN1516I-S The integer in the LINE NUMBER clause must not exceed 999. 999 is assumed.

C1516.cob 13: JMN1516I-S The integer in the NEXT GROUP clause must not exceed 999. 999 is assumed.

## JMN1517I-S

**ON NEXT PAGE is invalid in the LINE NUMBER clause. ON NEXT PAGE is ignored.**

### Example

```

[C1517.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1517.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD  IN-F REPORT RPT-F.
000010 REPORT         SECTION.
000011 RD  RPT-F PAGE LIMIT 10.

```

```
000012 01 HEAD01 TYPE IS RH LINE NUMBER 1 ON.  
000013 01 FOOT01 TYPE IS RF.  
000014 END PROGRAM C1517.
```

C1517.cob 12: JMN1517I-S ON NEXT PAGE is invalid in the LINE NUMBER clause. ON NEXT PAGE is ignored.

## JMN1518I-S

**The integer 0 cannot be specified in the NEXT GROUP clause.**

### Example

```
[C1518.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1518.  
000003 ENVIRONMENT DIVISION.  
000004 INPUT-OUTPUT SECTION.  
000005 FILE-CONTROL.  
000006 SELECT IN-F ASSIGN INFILE.  
000007 DATA DIVISION.  
000008 FILE SECTION.  
000009 FD IN-F REPORT RPT-F.  
000010 REPORT SECTION.  
000011 RD RPT-F PAGE LIMIT 10.  
000012 01 HEAD01 TYPE IS RH LINE NUMBER 1  
000013 NEXT GROUP 0.  
000014 01 FOOT01 TYPE IS RF.  
000015 END PROGRAM C1518.
```

C1518.cob 13: JMN1518I-S The integer 0 cannot be specified in the NEXT GROUP clause.

## JMN1519I-S

**The NEXT GROUP clause is already specified.**

### Example

```
[C1519.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1519.  
000003 ENVIRONMENT DIVISION.  
000004 INPUT-OUTPUT SECTION.  
000005 FILE-CONTROL.  
000006 SELECT IN-F ASSIGN INFILE.  
000007 DATA DIVISION.  
000008 FILE SECTION.  
000009 FD IN-F REPORT RPT-F.  
000010 REPORT SECTION.  
000011 RD RPT-F PAGE LIMIT 10.  
000012 01 HEAD01 TYPE IS RH LINE NUMBER 1  
000013 NEXT GROUP IS NEXT GROUP.  
000014 01 FOOT01 TYPE IS RF.  
000015 END PROGRAM C1519.
```

C1519.cob 13: JMN1519I-S The NEXT GROUP clause is already specified.

## JMN1520I-S

**DISPLAY must be specified in the USAGE clause of the report group description entry. DISPLAY is assumed.**

## Example

```
[C1520.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1520.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 REPORT SECTION.
000011 RD RPT-F PAGE LIMIT 10.
000012 01 HEAD01 TYPE IS RH USAGE PACKED-DECIMAL.
000013 01 FOOT01 TYPE IS RF.
000014 END PROGRAM C1520.
```

C1520.cob 12: JMN1520I-S DISPLAY must be specified in the USAGE clause of the report group description entry. DISPLAY is assumed.

## JMN1521I-S

---

**A report group description entry is specified with only a level-number or with only a level-number and a data-name. Compilation continues.**

## JMN1522I-S

---

**The @1@ clause can be specified only for a report group description entry of level-number 01.**

### Parameter Explanation

@1@ : TYPE, NEXT GROUP

## Example

```
[C1522.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1522.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 REPORT SECTION.
000011 RD RPT-F PAGE 15 HEADING 2 FIRST DETAIL 5 LAST DETAIL 8 FOOTING 10.
000012 01 TYPE RH.
000013 02 TYPE RH
000014     LINE 2
000015     COLUMN 3
000016     PIC X(15)
000017     VALUE "COBOL SAMPLE".
000018 END PROGRAM C1522.
```

C1522.cob 13: JMN1522I-S The TYPE clause can be specified only for a report group description entry of level-number 01.

## JMN1523I-S

---

**SEPARATE CHARACTER must be specified in the SIGN clause.**



## Example

```
[C1523.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1523.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F  ASSIGN INFILE.
000007 DATA            DIVISION.
000008 FILE             SECTION.
000009 FD  IN-F REPORT RPT-F.
000010 REPORT          SECTION.
000011 RD RPT-F PAGE 15 HEADING 2 FIRST DETAIL 5 LAST DETAIL 8 FOOTING 10.
000012 01              TYPE RH.
000013 02              LINE 2
000014                COLUMN 3
000015                PIC S9(4) SIGN IS LEADING
000016                VALUE 10.
000017 END PROGRAM C1523.
```

C1523.cob 13: JMN1523I-S SEPARATE CHARACTER must be specified in the SIGN clause.

## JMN1524I-S

**The BLANK WHEN ZERO clause cannot be specified in a report group description entry with a VALUE clause.**

### Example

```
[C1524.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1524.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F  ASSIGN INFILE.
000007 DATA            DIVISION.
000008 FILE             SECTION.
000009 FD  IN-F REPORT RPT-F.
000010 REPORT          SECTION.
000011 RD  RPT-F PAGE 15 HEADING 2 FIRST DETAIL 5 LAST DETAIL 8 FOOTING 10.
000012 01              TYPE RH.
000013 02              LINE 2
000014                COLUMN 3
000015                PIC S9(4)
000016                VALUE 10
000017                BLANK WHEN ZERO.
000018 END PROGRAM C1524.
```

C1524.cob 13: JMN1524I-S The BLANK WHEN ZERO clause cannot be specified in a report group description entry with a VALUE clause.

## JMN1525I-S

**Only one of the clauses SUM, SOURCE, or VALUE can be specified in a report group description entry. The first clause in the entry is used.**

### Example

```
[C1525.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1525.
000003 ENVIRONMENT     DIVISION.
```

```

000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 WORKING-STORAGE SECTION.
000011 01 A1 PIC X.
000012 01 A2 PIC X.
000013 01 A PIC 9.
000014 REPORT SECTION.
000015 RD RPT-F CONTROL IS A1 A2 A.
000016 01 HEAD01 TYPE IS RH.
000017 01 CONH01 TYPE IS CONTROL HEADING A1.
000018 01 CONF01 TYPE IS CONTROL FOOTING A2.
000019 02 DATA-1 PIC X(10) SUM A VALUE 1.
000020 01 FOOT01 TYPE IS RF.
000021 END PROGRAM C1525.

```

C1525.cob 19: JMN1525I-S Only one of the clauses SUM, SOURCE, or VALUE can be specified in a report group description entry. The first clause in the entry is used.

## JMN1526I-S

**Only one of the clauses COLUMN NUMBER or PRINTING POSITION can be specified in a report group description entry. The first clause in the entry is used.**

### Example

```

[C1526.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1526.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 REPORT SECTION.
000011 RD RPT-F PAGE 15 HEADING 2 FIRST DETAIL 5 LAST DETAIL 8 FOOTING 10.
000012 01 TYPE RH.
000013 02 LINE 2
000014 COLUMN 3
000015 PIC X(13) VALUE "COBOL SAMPLE"
000016 PRINTING POSITION IS 1.
000017 END PROGRAM C1526.

```

C1526.cob 16: JMN1526I-S Only one of the clauses COLUMN NUMBER or PRINTING POSITION can be specified in a report group description entry. The first clause in the entry is used.

C1526.cob 16: JMN1526I-S Only one of the clauses COLUMN NUMBER or PRINTING POSITION can be specified in a report group description entry. The first clause in the entry is used.

## JMN1527I-S

**The report-name is missing from the report description entry.**

### Example

```

[C1527.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1527.
000003 ENVIRONMENT DIVISION.

```

```

000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 DATA DIVISION.
000007 FILE SECTION.
000008 REPORT SECTION.
000009 RD.
000010 01 HEAD01 TYPE IS RH.
000011 01 FOOT01 TYPE IS RF.
000012 END PROGRAM C1527.

```

C1527.cob 9: JMN1527I-S The report-name is missing from the report description entry.

## JMN1528I-S

**An EXTERNAL clause cannot be specified in a report description entry.**

Example

```

[C1528.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1528.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 WORKING-STORAGE SECTION.
000011 REPORT SECTION.
000012 RD RPT-F EXTERNAL.
000013 01 HEAD01 TYPE IS RH.
000014 01 FOOT01 TYPE IS RF.
000015 END PROGRAM C1528.

```

C1528.cob 12: JMN1528I-S An EXTERNAL clause cannot be specified in a report description entry.

## JMN1529I-S

**FILLER cannot be specified in a report group description entry.**

Example

```

[C1529.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1529.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 WORKING-STORAGE SECTION.
000011 REPORT SECTION.
000012 RD RPT-F.
000013 01 FILLER TYPE IS RH.
000014 01 FOOT01 TYPE IS RF.
000015 END PROGRAM C1529.

```

C1529.cob 13: JMN1529I-S FILLER cannot be specified in a report group description entry.

## JMN1530I-S

---

**Level-number 66, 77, 78, and 88 cannot be specified in a report group description entry.**

Example

```
[C1530.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1530.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 WORKING-STORAGE SECTION.
000011 REPORT SECTION.
000012 RD RPT-F.
000013 01 HEAD01 TYPE IS RH.
000014 78 DATA-1 PIC 9(4) VALUE 1.
000015 01 FOOT01 TYPE IS RF.
000016 END PROGRAM C1530.
```

C1530.cob 14: JMN1530I-S Level-number 66, 77, 78, and 88 cannot be specified in a report group description entry.

### JMN1531I-S

---

**The level-number of the report group description entry must be specified in the range of 3 levels. The correct level is assumed.**

Example

```
[C1531.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1531.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 WORKING-STORAGE SECTION.
000011 REPORT SECTION.
000012 RD RPT-F.
000013 01 HEAD01 TYPE IS RH.
000014 02 LINE NUMBER IS PLUS 1.
000015 03 PIC 9(4) COLUMN NUMBER IS 1 VALUE 1.
000016 04 PIC X(5) COLUMN NUMBER IS 8 VALUE "A".
000017 01 FOOT01 TYPE IS RF.
000018 END PROGRAM C1531.
```

C1531.cob 16: JMN1531I-S The level-number of the report group description entry must be specified in the range of 3 levels. The correct level is assumed.

### JMN1532I-S

---

**The LINAGE clause cannot be specified in a file description entry with a REPORT clause.**

Example

```
[C1532.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1532.
000003 ENVIRONMENT DIVISION.
```

```

000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F LINAGE IS 1 LINES.
000010 REPORT SECTION.
000011 RD RPT-F.
000012 01 RPT1 TYPE IS RH.
000013 END PROGRAM C1532.

```

C1532.cob 9: JMN1532I-S The LINAGE clause cannot be specified in a file description entry with a REPORT clause.

## JMN1533I-S

**The GLOBAL clause cannot be specified in a report description entry.**

### Example

```

[C1533.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1533.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-F REPORT RPT-F.
000010 WORKING-STORAGE SECTION.
000011 REPORT SECTION.
000012 RD RPT-F GLOBAL.
000013 01 HEAD01 TYPE IS RH.
000014 01 FOOT01 TYPE IS RF.
000015 END PROGRAM C1533.

```

C1533.cob 12: JMN1533I-S The GLOBAL clause cannot be specified in a report description entry.

## JMN1534I-S

**In the PADDING CHARACTER clause, the nonnumeric literal must be 1 character in length. A 1 character length is assumed.**

### Example

```

[C1534.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1534.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN DISK
000007     ORGANIZATION SEQUENTIAL
000008     PADDING CHARACTER IS "AB".
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD IN-F.
000012 01 IN-R PIC X(80).
000013 END PROGRAM C1534.

```

C1534.cob 8: JMN1534I-S In the PADDING CHARACTER clause, the nonnumeric literal must be 1 character in length. A 1 character length is assumed.

## JMN1535I-S

**The @1@ clause can be specified only for a sequential file.**

### Parameter Explanation

@1@ : PADDING, RECORD DELIMITER

### Example

```
[C1535.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1535.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT RLFILE ASSIGN TO SYS006
000007     ORGANIZATION IS RELATIVE
000008     PADDING CHARACTER IS WPC.
000009 DATA            DIVISION.
000010 FILE             SECTION.
000011 FD RLFILE.
000012 01 RLREC.
000013 02              PIC 9(4).
000014 02              PIC X(66).
000015 WORKING-STORAGE SECTION.
000016 01 WPC          PIC X(1).
000017 PROCEDURE       DIVISION.
000018 END PROGRAM      C1535.
```

C1535.cob 8: JMN1535I-S The PADDING clause can be specified only for a sequential file.

## JMN1538I-I

**(OBS)The @1@ clause is an obsolete element in @2@ COBOL.**

### Parameter Explanation

@1@ : MEMORY SIZE, RERUN, MULTIPLE FILE TAPE, DATA RECODE, LABEL RECORD, VALUE OF

@2@ : ANSI85

### Example

```
[C1538.cob]
000001 @OPTIONS CONF(OBS),LANGLVL(85)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C1538.
000004 ENVIRONMENT     DIVISION.
000005 CONFIGURATION   SECTION.
000006 OBJECT-COMPUTER. OBJ01
000007     MEMORY SIZE 256 WORDS.
000008 DATA            DIVISION.
000009 PROCEDURE       DIVISION.
000010 END PROGRAM      C1538.
```

C1538.cob 7: JMN1538I-I (OBS)The 'MEMORY SIZE' clause is an obsolete element in ANSI85 COBOL.

## JMN1539I-I

**(OBS)The @1@ paragraph is an obsolete element in @2@ COBOL.**

### Parameter Explanation

@1@ : AUTHOR, INSTALLATION, DATE-WRITTEN, DATE-COMPILED, SECURITY

@2@ : ANSI85

## Example

```
[C1539.cob]
000001 @OPTIONS CONF(OBS),LANGLVL(85)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C1539.
000004 AUTHOR. COMP.
000005 ENVIRONMENT DIVISION.
000006 DATA DIVISION.
000007 PROCEDURE DIVISION.
000008 END PROGRAM C1539.
```

C1539.cob 4: JMN1539I-I (OBS)The AUTHOR paragraph is an obsolete element in ANSI85 COBOL.

## JMN1540I-S

**The PASSWORD clause can be specified only for a sequential file (organization AS or VS), a relative file, or an indexed file.**

## Example

```
[C1540.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1540.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN TO INFILE
000007     ORGANIZATION IS SEQUENTIAL
000008     PASSWORD IS PSWD1.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD IN-F.
000012 01 IN-R PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 01 PSWD1 PIC X(8) VALUE "COMP1234".
000015 END PROGRAM C1540.
```

C1540.cob 8: JMN1540I-S The PASSWORD clause can be specified only for a sequential file (organization AS or VS), a relative file, or an indexed file.

## JMN1544I-S

**The END DECLARE SECTION is missing. An END DECLARE SECTION is assumed.**

## Example

```
[C1544.cob]
000001 PROGRAM-ID. C1544.
000002 ENVIRONMENT DIVISION.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006     01 SQLSTATE PIC X(5).
000007     01 SQLCODE PIC 9(9).
000008 PROCEDURE DIVISION.
000009     STOP RUN.
```

C1544.cob 8: JMN1544I-S The END DECLARE SECTION is missing. An END DECLARE SECTION is assumed.

## JMN1545I-S (**Win32**)

---

**Only a BEGIN DECLARE SECTION and an END DECLARE SECTION can be specified in the WORKING-STORAGE SECTION or the LINKAGE SECTION.**

Example

```
[C1545.cob]
000002 PROGRAM-ID. C1545.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL START SQL END-EXEC.
000007 PROCEDURE DIVISION.
000008     STOP RUN.
```

C1545.cob 6: JMN1545I-S Only a BEGIN DECLARE SECTION and an END DECLARE SECTION can be specified in the WORKING-STORAGE SECTION or the LINKAGE SECTION.

### JMN1545I-S ([Winx64])

---

**Only a BEGIN DECLARE SECTION and an END DECLARE SECTION can be specified in the WORKING-STORAGE SECTION, the LOCAL-STORAGE SECTION or the LINKAGE SECTION.**

Example

```
[C1545.cob]
000002 PROGRAM-ID. C1545.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL START SQL END-EXEC.
000007 PROCEDURE DIVISION.
000008     STOP RUN.
```

C1545.cob 6: JMN1545I-S Only a BEGIN DECLARE SECTION and an END DECLARE SECTION can be specified in the WORKING-STORAGE SECTION, the LOCAL-STORAGE SECTION or the LINKAGE SECTION.

### JMN1547I-I

---

**(OBS)@1@ is an obsolete feature in @2@ COBOL.**

Parameter Explanation

@1@ : SEGMENTATION

@2@ : ANSIS85

Example

```
[C1547.cob]
000001 @OPTIONS CONF(OBS),LANGLVL(85)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C1547.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 OBJECT-COMPUTER. OBJ1
000007     SEGMENT-LIMIT IS 1
000008     .
000009 END PROGRAM C1547.
```

C1547.cob 7: JMN1547I-I (OBS)segmentation is an obsolete feature in ANSIS85 COBOL.

### JMN1551I-S

---

**The name in the literal '@1@' specified for the ASSIGN clause is invalid.**



## Parameter Explanation

@1@ : nonnumeric literal

### Example

```
[C1551.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C1551.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007     SELECT IN-F ASSIGN TO "A+B..".
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD IN-F.
000011 01 IN-R PIC X(80).
000012 END PROGRAM C1551.
```

C1551.cob 7: JMN1551I-S The name in the literal 'A+B..' specified for the ASSIGN clause is invalid.

## JMN1552I-S

**The name in the literal '@1@' specified for the ASSIGN clause exceeds 44 characters.**

### Parameter Explanation

@1@ : nonnumeric literal

### Example

```
[C1552.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C1552.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007     SELECT IN-F
000008     ASSIGN TO "ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMN
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD IN-F.
000012 01 IN-R PIC X(80).
000013 END PROGRAM C1552.
```

C1552.cob 8: JMN1552I-S The name in the literal 'ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMN...' specified for the ASSIGN clause exceeds 44 characters.

## JMN1553I-S

**The integer in the POSITION phrase of the MULTIPLE FILE TAPE clause must not exceed @1@. @1@ is assumed.**

### Parameter Explanation

@1@ : 256

### Example

```
[C1553.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1553.
```

```

000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN TO INFILE.
000007 I-O-CONTROL.
000008     MULTIPLE FILE TAPE IN-F POSITION 257.
000009 DATA             DIVISION.
000010 FILE             SECTION.
000011 FD IN-F.
000012 01 IN-R PIC X(80).
000013 END PROGRAM      C1553.

```

C1553.cob 8: JMN1553I-S The integer in the POSITION phrase of the MULTIPLE FILE TAPE clause must not exceed 256. 256 is assumed.

## JMN1555I-S

**END-EXEC of the INCLUDE @1@ statement must end with a period.**

### Parameter Explanation

@1@ : SQLDA

### Example

```

[C1555.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1555.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL
000006     INCLUDE SQLDA HAVING 5 COLUMNS
000007     END-EXEC
000008 END PROGRAM      C1555.

```

C1555.cob 5: JMN1555I-S END-EXEC of the INCLUDE SQLDA statement must end with a period.

## JMN1556I-S

**The INCLUDE @1@ statement cannot be specified in the EMBEDDED SQL DECLARE SECTION.**

### Parameter Explanation

@1@ : SQLDA

### Example

```

[C1556.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1556.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006     EXEC SQL
000007     INCLUDE SQLDA HAVING 5 COLUMNS
000008     END-EXEC.
000009     EXEC SQL END DECLARE SECTION END-EXEC.
000010 PROCEDURE       DIVISION.
000011 END PROGRAM      C1556.

```

C1556.cob 6: JMN1556I-S The INCLUDE SQLDA statement cannot be specified in the EMBEDDED SQL DECLARE SECTION.

## JMN1557I-S

**The PASSWORD clause must be specified in the RECORD KEY or ALTERNATE RECORD KEY clause.**

## Example

```
[C1557.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1557.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE
000007     ORGANIZATION IS INDEXED
000008     PASSWORD      IS P1
000009     RECORD KEY   IS IN-NO
000010     .
000011 DATA          DIVISION.
000012 FILE            SECTION.
000013 FD IN-F.
000014 01 IN-R.
000015 02 IN-NO       PIC 9(4).
000016 02 IN-NAME     PIC X(80).
000017 WORKING-STORAGE SECTION.
000018 01 P1          PIC X(6) VALUE "CMP123".
000019 END PROGRAM C1557.
```

C1557.cob 8: JMN1557I-S The PASSWORD clause must be specified in the RECORD KEY or ALTERNATE RECORD KEY clause.

## JMN1558I-S

---

**The integer in the HAVING phrase must be between 1 and 33554431.**

### Example

```
[C1558.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1558.
000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006     EXEC SQL
000007     INCLUDE SQLDA HAVING 0 COLUMNS
000008     END-EXEC.
000009     EXEC SQL END DECLARE SECTION END-EXEC.
000010 PROCEDURE         DIVISION.
000011 END PROGRAM       C1558.
```

C1558.cob 7: JMN1558I-S The integer in the HAVING phrase must be between 1 and 33554431.

## JMN1559I-S

---

**The syntax of the INCLUDE SQLDA statement is invalid.**

### Example

```
[C1559.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1559.
000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL INCLUDE SQLDA END-EXEC.
000006 END PROGRAM       C1559.
```

C1559.cob 5: JMN1559I-S The syntax of the INCLUDE SQLDA statement is invalid.

## JMN1560I-S

---

**The SQLDA structure name in the INCLUDE SQLDA statement is invalid.**

**Example**

```
[C1560.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1560.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL
000006         INCLUDE SQLDA AS "ABC" HAVING 1 COLUMNS
000007     END-EXEC.
000008 END PROGRAM      C1560.
```

C1560.cob 6: JMN1560I-S The SQLDA structure name in the INCLUDE SQLDA statement is invalid.

**JMN1561I-S**

---

**The syntax of the @1@ clause is invalid.**

**Parameter Explanation**

@1@ : POSITIONING UNIT

**Example**

```
[C1561.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1561.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 SPECIAL-NAMES.
000006     POSITIONING UNIT IS 12 .
000007 DATA            DIVISION.
000008 END PROGRAM C1561.
```

C1561.cob 6: JMN1561I-S The syntax of the POSITIONING UNIT clause is invalid.

**JMN1562I-S**

---

**The literal of the POSITIONING UNIT clause must be an unsigned numeric literal with a value of 0.01 through 24.00. The number of decimal digits cannot exceed 2.**

**Example**

```
[C1562.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1562.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 SPECIAL-NAMES.
000006     POSITIONING UNIT PUN-A IS 24.01 CPI.
000007 DATA            DIVISION.
000008 END PROGRAM C1562.
```

C1562.cob 6: JMN1562I-S The literal of the POSITIONING UNIT clause must be an unsigned numeric literal with a value of 0.01 through 24.00. The number of decimal digits cannot exceed 2.

**JMN1563I-S**

---

**The positioning-unit-name must be specified for the BY phrase in the PRINTING POSITION clause.**

## Example

```
[C1563.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1563.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     POSITIONING UNIT PUN-A IS 12 CPI.
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009     01 RECL      PIC X(10) PRINTING POSITION IS 20 BY "BMP".
000010 PROCEDURE      DIVISION.
000011 END PROGRAM C1563.
```

C1563.cob 9: JMN1563I-S The positioning-unit-name must be specified for the BY phrase in the PRINTING POSITION clause.

## JMN1566I-S

**A printing-mode-name must be specified immediately after the OR phrase in the CHARACTER TYPE clause.**

### Example

```
[C1566.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1566.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 IS FOR MOCS
000007     PRINTING MODE PM2 IS FOR SOCS
000008     .
000009 DATA DIVISION.
000010 WORKING-STORAGE SECTION.
000011     01 WN001      PIC N(80) CHARACTER TYPE IS PM1 OR
000012                 PRINTING POSITION IS 10.
000013 END PROGRAM C1566.
```

C1566.cob 11: JMN1566I-S A printing-mode-name must be specified immediately after the OR phrase in the CHARACTER TYPE clause.

## JMN1567I-S

**A data-name must be specified for the DEPENDING ON phrase in the CHARACTER TYPE clause.**

### Example

```
[C1567.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1567.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 IS FOR MOCS FONT MINCHOU
000007     PRINTING MODE PM2 IS FOR MOCS FONT MINCHOU-HANKAKU.
000008 DATA DIVISION.
000009 WORKING-STORAGE SECTION.
000010     01 W001      PIC N(30) CHARACTER TYPE IS PM1 PM2
000011                 DEPENDING ON 1.
000012 END PROGRAM C1567.
```

C1567.cob 10: JMN1567I-S A data-name must be specified for the DEPENDING ON phrase in the CHARACTER TYPE clause.

## JMN1568I-S

**When two or more printing-mode-names are specified in a CHARACTER TYPE clause, a DEPENDING ON phrase must be specified.**

### Example

```
[C1568.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1568.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 IS FOR MOCS FONT MINCHOU
000007     PRINTING MODE PM2 IS FOR MOCS FONT MINCHOU-HANKAKU.
000008 DATA DIVISION.
000009 WORKING-STORAGE SECTION.
000010     01 W001     PIC N(30) CHARACTER TYPE IS PM1 PM2.
000011 END PROGRAM C1568.
```

C1568.cob 10: JMN1568I-S When two or more printing-mode-names are specified in a CHARACTER TYPE clause, a DEPENDING ON phrase must be specified.

## JMN1569I-S

**The @2@ phrase in the @1@ clause is invalid.**

### Parameter Explanation

@1@ : PRINTING MODE

@2@ : FOR, SIZE, PITCH, FONT, ANGLE, FORM

### Example

```
[C1569.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1569.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 IS FOR NATIONAL
000007     PRINTING MODE PM2 IS IN FONT.
000008 DATA           DIVISION.
000009 WORKING-STORAGE SECTION.
000010 END PROGRAM C1569.
```

C1569.cob 6: JMN1569I-S The FOR phrase in the PRINTING MODE clause is invalid.

C1569.cob 7: JMN1569I-S The FONT phrase in the PRINTING MODE clause is invalid.

## JMN1570I-S

**The @2@ phrase is already specified in the @1@ clause.**

### Parameter Explanation

@1@ : PRINTING MODE

@2@ : SIZE, PITCH, FONT, ANGLE, FORM

### Example

```
[C1570.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1570.
000003 ENVIRONMENT     DIVISION.
```

```

000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 IS FOR MOCS IN SIZE 12 POINT
000007                                     WITH FONT MINCHOU
000008                                     SIZE 15 POINT.
000009 END PROGRAM C1570.

```

C1570.cob 8: JMN1570I-S The SIZE phrase is already specified in the PRINTING MODE clause.

## JMN1571I-S

**The literal in the SIZE phrase must be an unsigned numeric literal with a value of 3 through 300. The number of decimal digits must not exceed 1.**

### Example

```

[C1571.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1571.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 IS FOR MOCS IN SIZE 2 POINT.
000007 END PROGRAM C1571.

```

C1571.cob 6: JMN1571I-S The literal in the SIZE phrase must be an unsigned numeric literal with a value of 3 through 300. The number of decimal digits must not exceed 1.

## JMN1572I-S

**The literal in the PITCH phrase must be an unsigned numeric literal with a value of 0.01 through 24.00. The number of digit digits must not exceed 2.**

### Example

```

[C1572.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1572.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 IS FOR MOCS AT PITCH 25.00 CPI.
000007 END PROGRAM C1572.

```

C1572.cob 6: JMN1572I-S The literal in the PITCH phrase must be an unsigned numeric literal with a value of 0.01 through 24.00. The number of digit digits must not exceed 2.

## JMN1573I-S

**The integer in the ANGLE phrase must be 0 or 90.**

### Example

```

[C1573.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1573.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 IS FOR MOCS AT ANGLE 45 DEGREES.
000007 END PROGRAM C1573.

```

C1573.cob 6: JMN1573I-S The integer in the ANGLE phrase must be 0 or 90.

## JMN1574I-S

**The function-name of the @1@ phrase is invalid.**

### Parameter Explanation

@1@ : FONT, FORM

### Example

```
[C1574.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1574.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 IS FOR MOCS WITH FONT KYOUKASHOTAI.
000007 END PROGRAM C1574.
```

C1574.cob 6: JMN1574I-S The function-name of the FONT phrase is invalid.

## JMN1576I-S

**@1@ cannot be used in this system.**

### Parameter Explanation

@1@ : name,clause,statement

### Example

```
[C1576.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1576.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 DATA-1 PIC N VALUE NH"あ".
000006 END PROGRAM      C1576.
```

C1576.cob 5: JMN1576I-S NH cannot be used in this system.

## JMN1578I-S

**PRINTER in the ASSIGN clause can be specified only in a sequential file other than a line sequential file.**

### Example

```
[C1578.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1578.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT AFILE ASSIGN TO PRINTER
000007     ORGANIZATION IS LINE SEQUENTIAL.
000008 DATA            DIVISION.
000009 FILE            SECTION.
000010     FD AFILE.
000011     01 REC-A    PIC X(10).
000012 END PROGRAM C1578.
```

C1578.cob 6: JMN1578I-S PRINTER in the ASSIGN clause can be specified only in a sequential file other than a line sequential file.

## JMN1579I-S



---

**MANUAL in the LOCK MODE clause can be specified only in a relative or indexed file.**

Example

```
[C1579.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1579.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT AFILE ASSIGN TO DISK
000007     ORGANIZATION IS SEQUENTIAL
000008     LOCK MODE IS MANUAL WITH LOCK ON MULTIPLE RECORDS.
000009 DATA            DIVISION.
000010 FILE             SECTION.
000011 FD AFILE.
000012 01 A-REC PIC X(10).
000013 END PROGRAM C1579.
```

C1579.cob 8: JMN1579I-S MANUAL in the LOCK MODE clause can be specified only in a relative or indexed file.

### JMN1580I-S

---

**Each level 01 item must have a data-name.**

Example

```
[C1580.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1580.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 DD             PIC X(4).
000007 SCREEN           SECTION.
000008 01                PIC X(8) FROM DD.
000009 END PROGRAM C1580.
```

C1580.cob 8: JMN1580I-S Each level 01 item must have a data-name.

### JMN1581I-S

---

**The integer in the BACKGROUND-COLOR or FOREGROUND-COLOR clause must be a value from 0 through 7.**

Example

```
[C1581.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1581.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 DD             PIC X(2).
000007 SCREEN           SECTION.
000008 01 A              PIC X(2) FROM DD BACKGROUND-COLOR IS 8.
000009 END PROGRAM C1581.
```

C1581.cob 8: JMN1581I-S The integer in the BACKGROUND-COLOR or FOREGROUND-COLOR clause must be a value from 0 through 7.

### JMN1582I-S

---

**DISPLAY must be specified in the USAGE clause of the screen description entry. DISPLAY is assumed.**

## Example

```
[C1582.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1582.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 AA           PIC X(2).
000007 SCREEN          SECTION.
000008 01 A            PIC X(8) FROM AA USAGE IS INDEX.
000009 END PROGRAM C1582.
```

C1582.cob 8: JMN1582I-S DISPLAY must be specified in the USAGE clause of the screen description entry. DISPLAY is assumed.

## JMN1583I-W

**The JUSTIFIED clause cannot be specified in a screen description entry with a FULL clause. The JUSTIFIED clause is ignored.**

### Example

```
[C1583.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1583.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 AA           PIC X(2).
000007 SCREEN          SECTION.
000008 01 A            PIC X(8) TO AA
000009                 FULL
000010                 JUSTIFIED.
000011 END PROGRAM C1583.
```

C1583.cob 8: JMN1583I-W The JUSTIFIED clause cannot be specified in a screen description entry with a FULL clause. The JUSTIFIED clause is ignored.

## JMN1584I-S

**The '@1@' clause and the '@2@' clause cannot both be specified in the same screen description entry. The '@2@' clause is ignored.**

### Parameter Explanation

@1@ : PICTURE,VALUE

@2@ : VALUE,AUTO,FULL,REQUIRED,SECURE,BLANK WHEN ZERO,USAGE

### Example

```
[C1584.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1584.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 AA           PIC X(2).
000007 SCREEN          SECTION.
000008 01 A            PIC X(2) FROM AA VALUE "AAA".
000009 PROCEDURE DIVISION.
```

C1584.cob 8: JMN1584I-S The 'PICTURE' clause and the 'VALUE' clause cannot both be specified in the same screen description entry. The 'VALUE' clause is ignored.

## JMN1586I-S

---

The '@1@' phrase and the '@2@' phrase cannot both be specified in the same PICTURE clause.

### Parameter Explanation

@1@ : FROM, TO, USING

@2@ : FROM, TO, USING

### Example

```
[C1586.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1586.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 AA           PIC X(2).
000007 01 BB           PIC X(2).
000008 SCREEN          SECTION.
000009 01 A1           PIC X(8) FROM AA USING BB.
000010 END PROGRAM C1586.
```

C1586.cob 9: JMN1586I-S The 'FROM' phrase and the 'USING' phrase cannot both be specified in the same PICTURE clause.

## JMN1588I-S

---

Only a nonnumeric literal or a national literal can be specified in the VALUE clause of a screen description entry.

### Example

```
[C1588.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1588.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 SCREEN          SECTION.
000007 01 A            BELL VALUE 5.
000008 END PROGRAM C1588.
```

C1588.cob 7: JMN1588I-S Only a nonnumeric literal or a national literal can be specified in the VALUE clause of a screen description entry.

## JMN1589I-S

---

Each screen description entry must start with a level number of 01 through 49, or 78.

### Example

```
[C1589.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1589.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 BB           PIC X(2).
000007 SCREEN          SECTION.
000008 01 A            BELL.
000009 66 B           PIC X(8) FROM BB.
000010 END PROGRAM C1589.
```

C1589.cob 9: JMN1589I-S Each screen description entry must start with a level number of 01 through 49, or 78.

## JMN1591I-S

**The LOCK MODE clause can only be specified in a file that is sequential, relative, or indexed.**

### Example

```
[C1591.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1591.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT AFILE ASSIGN TO R-DD1
000007             ACCESS MODE IS RANDOM
000008             RELATIVE KEY IS RK1
000009             LOCK MODE IS EXCLUSIVE.
000010 DATA            DIVISION.
000011 FILE             SECTION.
000012 FD AFILE.
000013 01 AREC          PIC X(8).
000014 WORKING-STORAGE SECTION.
000015 01 RK1           PIC 9(8) BINARY.
000016 END PROGRAM C1591.
```

C1591.cob 9: JMN1591I-S The LOCK MODE clause can only be specified in a file that is sequential, relative, or indexed.

## JMN1592I-S

**In the SCREEN SECTION, the PICTURE clause must be specified in the item which has a FROM, TO or USING phrase.**

### Example

```
[C1592.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1592.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 AA             PIC X(2).
000007 SCREEN          SECTION.
000008 01 BBB           AUTO FROM AA BELL.
000009 END PROGRAM C1592.
```

C1592.cob 8: JMN1592I-S In the SCREEN SECTION, the PICTURE clause must be specified in the item which has a FROM, TO or USING phrase.

## JMN1593I-S

**'@2@' must be specified in a '@1@' clause.**

### Parameter Explanation

@1@ : LINE NUMBER, COLUMN NUMBER

@2@ : identifier or integer literal

### Example

```
[C1593.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C1593.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
```

```

000006 01 ZZZ      PIC X(8).
000007 SCREEN      SECTION.
000008 01 AAA      PIC X(80) LINE FROM ZZZ.
000009 END PROGRAM C1593.

```

C1593.cob 8: JMN1593I-S 'identifier or integer literal' must be specified in a 'LINE NUMBER' clause.

## JMN1594I-S

**An '@3@' must be specified in a '@1@' clause with a '@2@' phrase.**

### Parameter Explanation

@1@ : PICTURE

@2@ : FROM, TO, USING

@3@ : identifier, identifier or literal

### Example

```

[C1594.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1594.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 ZZZ          PIC X(8).
000007 SCREEN          SECTION.
000008 01 AAA          PIC X(80) FROM TO ZZZ.
000009 END PROGRAM C1594.

```

C1594.cob 8: JMN1594I-S An 'identifier or literal' must be specified in a 'PICTURE' clause with a 'FROM' phrase.

## JMN1596I-S

**DISK or PRINTER in an ASSIGN clause cannot be specified in a print file with a FORMAT clause.**

### Example

```

[C1596.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1596.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT AFILE ASSIGN TO DISK
000007         ORGANIZATION IS SEQUENTIAL
000008         FORMAT IS FM1.
000009 DATA            DIVISION.
000010 FILE            SECTION.
000011     FD AFILE.
000012 01 AREC          PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 01 FM1           PIC X(8).
000015 END PROGRAM C1596.

```

C1596.cob 6: JMN1596I-S DISK or PRINTER in an ASSIGN clause cannot be specified in a print file with a FORMAT clause.

## JMN1597I-W

**'@1@' is a proper function to the MSP or XSP system.**

### Parameter Explanation

@1@ : SUBSCHEMA-NAME

## Example

```
[C1597.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1597.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SUBSCHEMA-NAME. "SUBS".
000006 DATA           DIVISION.
000007 WORKING-STORAGE SECTION.
000008 END PROGRAM C1597.
```

C1597.cob 5: JMN1597I-W 'SUBSCHEMA-NAME' is a proper function to the MSP or XSP system.

## JMN1599I-S

---

**The @1@ clause can only be specified for a level 01 item in the SCREEN SECTION.**

### Parameter Explanation

@1@ : TABLE LINE

## Example

```
[C1599.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1599.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 SCREEN         SECTION.
000006 01 HYO.
000007 02 HYO1        BELL
000008                TABLE LINE.
000009 PROCEDURE DIVISION.
000010     DISPLAY HYO.
000011 END PROGRAM C1599.
```

C1599.cob 8: JMN1599I-S The TABLE LINE clause can only be specified for a level 01 item in the SCREEN SECTION.

## JMN1600I-S

---

**@1@ cannot be specified for a PROGRAM DEFINITION that contains the RECURSIVE attribute.**

### Parameter Explanation

@1@ : SCREEN SECTION / The internal program that contains an INITIAL clause.

## Example

```
[P1600.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P1600 IS RECURSIVE.
000003 DATA DIVISION.
000004 SCREEN SECTION.
000005 END PROGRAM P1600.
```

P1600.cob 4: JMN1600I-S SCREEN SECTION cannot be specified for a PROGRAM DEFINITION that contains the RECURSIVE attribute.

## JMN1604I-W

---

**A comment-entry cannot be connected using a hyphen in an indicator area. The hyphen is ignored.**

## Example

```
[C1604.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1604.
000003 DATE-COMPILED.  "1998
000004-                "2007"
000005 END PROGRAM C1604.
```

C1604.cob 4: JMN1604I-W A comment-entry cannot be connected using a hyphen in an indicator area. The hyphen is ignored.

## JMN1608I-S

---

**The function-name of the function is invalid or missing.**

### Example

```
[C1608.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1608.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WKPTR         POINTER.
000006 01 WKARA         PIC X(10).
000007 PROCEDURE       DIVISION.
000008     MOVE FUNCTION ADRR(WKARA) TO WKPTR
000009     .
000010 END PROGRAM C1608.
```

C1608.cob 8: JMN1608I-S The function-name of the function is invalid or missing.

## JMN1615I-I

---

**(CONF)Character string following the left parenthesis in the library text is replaced.**

### Example

```
[A.cob]
000001 01 DATA-1 PIC X(10).
[C1615.cob]
000001 @OPTIONS CONF(V10)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C1615.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006     COPY A REPLACING == 10 == BY == 5 ==.
000007 END PROGRAM      C1615.
```

A.cob 1: JMN1615I-I (CONF)Character string following the left parenthesis in the library text is replaced.

## JMN1661I-S

---

**Not able to access the working area of memory of the referenced library.**

## JMN1662I-S

---

**An incomplete FFD or MED is specified.**

## JMN1664I-S

---

**The MED exceeds the maximum size of data that can be processed. Reduce the size of this MED in the environment where it was created.**

## JMN1665I-S

---

**The program for expanding FFD or MED cannot be loaded or deleted.**

## JMN1668I-W

---

**The input-output item is not defined in FFD or MED.**

### Explanation

In the specified descriptor, data is not defined.

## JMN1670I-S

---

**National hexadecimal literals must consist of hexadecimal characters (0 through 9, a through f). The national literal is assumed to be a space.**

### Example

```
[C1670.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1670.
000003 PROCEDURE       DIVISION.
000004     DISPLAY NX"835483938376838Z"
000005     .
000006 END PROGRAM C1670.
```

C1670.cob 4: JMN1670I-S National hexadecimal literals must consist of hexadecimal characters (0 through 9, a through f). The national literal is assumed to be a space.

## JMN1671I-S

---

**An I/O error occurred while reading the library text. Reading the library text is terminated.**

### Explanation

The following is the most likely cause:

- Descriptor is not working.

Due to a damaged descriptor, an error occurred during an input or an output. Open the descriptor using PowerFORM, examine it, and recreate it, if necessary.

## JMN1672I-S

---

**A national literal contains characters that cannot be converted to a national character. The national literal is assumed to be a space.**

### Example

```
[C1672.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1672.
000003 PROCEDURE       DIVISION.
000004     DISPLAY NC"日本語定数A"
000005     .
000006 END PROGRAM C1672.
```

C1672.cob 4: JMN1672I-S A national literal contains characters that cannot be converted to a national character. The national literal is assumed to be a space.

### Explanation

Any national character belonging to a computer character set can be used as national nonnumeric literal. However, when the operation mode is Unicode, any character belonging to a computer character set can be used.



## JMN1674I-S

**An FFD file descriptor or an MED screen form descriptor that uses an unsupported function is specified.**

### Explanation

The descriptor of the form whose compiler is newer than the descriptor that was able to be treated was read. It is necessary to match to version level of the compiler using the descriptor or to make the compiler latest version level.

## JMN1675I-S

**The @1@ cannot be specified in a @2@. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.**

### Parameter Explanation

@1@ : reserved word, environment division, section-name

@2@ : nested-program, method prototype definition, definition-name

### Example

```
[C1675.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1675.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 I-O-CONTROL.
000006 END CLASS C1675.
```

C1675.cob 4: JMN1675I-S The INPUT-OUTPUT SECTION cannot be specified in a class definition. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.

C1675.cob 5: JMN1675I-S The INPUT-OUTPUT SECTION cannot be specified in a class definition. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.

## JMN1676I-S

**A @2@ can only be specified in a @1@ clause. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.**

### Parameter Explanation

[Win32]

@1@ : TYPE/ TYPEDEF/ GLOBAL

@2@ : BASED-STORAGE SECTION, FILE SECTION, WORKING-STORAGE SECTION, CONSTANT SECTION, LINKAGE SECTION and PROGRAM DEFINISION

[Winx64]

@1@ : TYPE/ TYPEDEF/ GLOBAL

@2@ : BASED-STORAGE SECTION, FILE SECTION, WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION, CONSTANT SECTION, LINKAGE SECTION and PROGRAM DEFINISION

### Example

```
[C1676.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1676.
000003 ENVIRONMENT      DIVISION.
000004 OBJECT.
000005 DATA              DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 A1 GLOBAL PIC X.
000008 PROCEDURE         DIVISION.
```

```
000009 END OBJECT.  
000010 END CLASS C1676.
```

C1676.cob 7: JMN1676I-S A PROGRAM DEFINITION can only be specified in a GLOBAL clause. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.

## JMN1677I-S

**@1@ cannot be specified in a @2@. It is ignored, and the compiler skips to the next paragraph or division.**

### Parameter Explanation

@1@ : ENVIRONMENT DIVISION,DATA DIVISION,PROCEDURE DIVISION

@2@ : class definition

### Example

```
[C1677.cob]  
000001 IDENTIFICATION DIVISION.  
000002 CLASS-ID.          C1677.  
000003 DATA              DIVISION.  
000004 END CLASS C1677.
```

C1677.cob 3: JMN1677I-S DATA DIVISION cannot be specified in a class definition. It is ignored, and the compiler skips to the next paragraph or division.

## JMN1678I-S

**The @1@ clause can only be specified in the WORKING-STORAGE SECTION of the FACTORY or OBJECT definition. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.**

### Parameter Explanation

@1@ : clause name

### Example

```
[C1678.cob]  
000001 IDENTIFICATION  DIVISION.  
000002 PROGRAM-ID.     C1678.  
000003 DATA           DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005 01 ERR-REC PROPERTY NO GET PIC 9.  
000006 PROCEDURE      DIVISION.  
000007 END PROGRAM C1678.
```

C1678.cob 5: JMN1678I-S The PROPERTY clause can only be specified in the WORKING-STORAGE SECTION of the FACTORY or OBJECT definition. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.

## JMN1681I-S

**The @1@ clause cannot be specified in a @2@. It is ignored, and the compiler skips to the next valid clause, paragraph, section, or division.**

### Parameter Explanation

@1@ : TYPEDEF, EXTERNAL

@2@ : SQL declaration paragraph, factory definition, static definition, or object definition

### Example

```
[C1681.cob]  
000001 IDENTIFICATION DIVISION.  
000002 CLASS-ID.      C1681.
```

```

000003 OBJECT.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 PRM    PIC X(4) EXTERNAL.
000007 END OBJECT.
000008 END CLASS C1681.

```

C1681.cob 6: JMN1681I-S The EXTERNAL clause cannot be specified in a factory definition, static definition, or object definition. It is ignored, and the compiler skips to the next valid clause, paragraph, section, or division.

## JMN1683I-S

**The GET or SET phrase of the PROPERTY clause must be specified with 'NO'. It is ignored, and the compiler skips to the next valid clause, paragraph, section, or division.**

### Example

```

[C1683.cob]
000001 IDENTIFICATION  DIVISION.
000002 CLASS-ID.      C1683.
000003 ENVIRONMENT     DIVISION.
000004 IDENTIFICATION  DIVISION.
000005 OBJECT.
000006 DATA          DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 AAA2 PROPERTY GET PIC 9.
000009 END OBJECT.
000010 END CLASS C1683.

```

C1683.cob 8: JMN1683I-S The GET or SET phrase of the PROPERTY clause must be specified with 'NO'. It is ignored, and the compiler skips to the next valid clause, paragraph, section, or division.

## JMN1684I-S

**The 'NO' of the PROPERTY clause must be specified with a GET or SET phrase. It is ignored, and the compiler skips to the next valid clause, paragraph, section, or division.**

### Example

```

[C1684.cob]
000001 IDENTIFICATION  DIVISION.
000002 CLASS-ID.      C1684.
000003 ENVIRONMENT     DIVISION.
000004 IDENTIFICATION  DIVISION.
000005 OBJECT.
000006 DATA          DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 AAA PROPERTY NO AAA PIC 9.
000009 END OBJECT.
000010 END CLASS C1684.

```

C1684.cob 8: JMN1684I-S The 'NO' of the PROPERTY clause must be specified with a GET or SET phrase. It is ignored, and the compiler skips to the next valid clause, paragraph, section, or division.

## JMN1685I-S

**The PROPERTY clause cannot be specified for a filler item. The PROPERTY clause is ignored.**

### Example

```

[C1685.cob]
000001 IDENTIFICATION  DIVISION.
000002 CLASS-ID.      C1685.
000003 ENVIRONMENT     DIVISION.

```

```

000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 PROPERTY NO SET PIC 9.
000009 END OBJECT.
000010 END CLASS C1685.

```

C1685.cob 8: JMN1685I-S The PROPERTY clause cannot be specified for a filler item. The PROPERTY clause is ignored.

## JMN1686I-S

### A @2@ can only be specified in a @1@.

#### Parameter Explanation

@1@ : clause name

@2@ : program definition

#### Example

```

[C1686.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C1686.
000003 OBJECT.
000004 PROCEDURE DIVISION.
000005 METHOD-ID. M1686.
000006 PROCEDURE DIVISION.
000007 DISPLAY "Hello COBOL!!"
000008 PERFORM A1
000009 .
000010 A1 SECTION 1686.
000011 DISPLAY "Error Program".
000012 END METHOD M1686.
000013 END OBJECT.
000014 END CLASS C1686.

```

C1686.cob 10: JMN1686I-S A PROGRAM DEFINITION can only be specified in a segment-number of section header.

## JMN1687I-S

### A @1@ cannot be specified in a @2@. It is ignored, and the compiler skips to the next paragraph, section or division.

#### Parameter Explanation

@1@ : LINKAGE SECTION

@2@ : factory definition, static definition, or object definition

#### Example

```

[C1687.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C1687.
000003 FACTORY.
000004 DATA DIVISION.
000005 LINKAGE SECTION.
000006 END FACTORY.
000007 END CLASS C1687.

```

C1687.cob 5: JMN1687I-S A LINKAGE SECTION cannot be specified in a factory definition, static definition, or object definition. It is ignored, and the compiler skips to the next paragraph, section or division.

## JMN1688I-S

**MULTIPLE REEL and UNIT phrases can only be specified in the PROGRAM definition.**

### Example

```
[C1688.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1688.
000003 OBJECT.
000004 ENVIRONMENT      DIVISION.
000005 INPUT-OUTPUT     SECTION.
000006 FILE-CONTROL.
000007     SELECT IN-FILE
000008         ASSIGN TO INFILE
000009         MULTIPLE REEL
000010         ORGANIZATION LINE SEQUENTIAL
000011     .
000012 DATA            DIVISION.
000013 FILE              SECTION.
000014 FD IN-FILE.
000015 01 IN-REC.
000016 02 I-CODE        PIC X.
000017 END OBJECT.
000018 END CLASS C1688.
```

C1688.cob 8: JMN1688I-S MULTIPLE REEL and UNIT phrases can only be specified in the PROGRAM definition.

## JMN1689I-S

**'@1@' is a proper function to the MSP or XSP system.**

### Parameter Explanation

@1@ : Word of a function that is specific to MSP or XSP system

### Example

```
[C1689.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1689.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION     SECTION.
000005 SUBSCHEMA-NAME.  "CHKICSBN".
000006 END CLASS C1689.
```

C1689.cob 5: JMN1689I-S 'SUBSCHEMA-NAME' is a proper function to the MSP or XSP system.

## JMN1690I-S

**@2@ can only be specified in @1@. It is ignored, and the compiler skips to the next END-EXEC, section or division.**

### Parameter Explanation

@1@ : DCSQL

@2@ : PROGRAM DEFINITION

### Example

```
[C1690.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1690.
000003 ENVIRONMENT      DIVISION.
000004 FACTORY.
```

```

000005 DATA          DIVISION.
000006 WORKING-STORAGE SECTION.
000007         EXEC DCSQL BEGIN DECLARE SECTION END-EXEC.
000008 01  SQLSTATE PIC X(5).
000009         EXEC DCSQL END DECLARE SECTION END-EXEC.
000010 PROCEDURE      DIVISION.
000011 END FACTORY.
000012 END CLASS C1690.

```

C1690.cob 7: JMN1690I-S PROGRAM DEFINITION can only be specified in relational database module(DCSQL). It is ignored, and the compiler skips to the next END-EXEC, section or division.

C1690.cob 9: JMN1690I-S PROGRAM DEFINITION can only be specified in relational database module(DCSQL). It is ignored, and the compiler skips to the next END-EXEC, section or division.

## JMN1692I-S

**@1@ can only be specified in the PROGRAM definition, OBJECT definition or OBJECT METHOD definition. It is ignored, and the compiler skips to the next END-EXEC, section or division.**

### Parameter Explanation

@1@ : SQL function

### Example

```

[C1692.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C1692.
000003 FACTORY.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006         EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01  HOSTVAR    PIC X(100).
000008         EXEC SQL END DECLARE SECTION END-EXEC.
000009 END FACTORY.
000010 END CLASS C1692.

```

C1692.cob 6: JMN1692I-S Relational database module(SQL) can only be specified in the PROGRAM definition, OBJECT definition or OBJECT METHOD definition. It is ignored, and the compiler skips to the next END-EXEC, section or division.

C1692.cob 8: JMN1692I-S Relational database module(SQL) can only be specified in the PROGRAM definition, OBJECT definition or OBJECT METHOD definition. It is ignored, and the compiler skips to the next END-EXEC, section or division.

## JMN1693I-S

**The @1@ clause can only be specified in a level-number '01' item. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.**

### Parameter Explanation

@1@ : TYPEDEF

### Example

```

[C1693.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C1693.
000003 OBJECT.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01  DATA01.
000007 02  DATA02 TYPEDEF PIC X(100).
000008 END OBJECT.
000009 END CLASS C1693.

```

C1693.cob 7: JMN1693I-S The TYPEDEF clause can only be specified in a level-number '01' item. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.

### JMN1694I-S

**The named-constant name must be specified after level-number '78'. This entry is ignored, and the compiler skips to the next division, paragraph, level indicator or level-number.**

#### Example

```
[C1694.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1694.
000003 OBJECT.
000004 DATA              DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 DATA01.
000007   78              VALUE 10.
000008 END OBJECT.
000009 END CLASS C1694.
```

C1694.cob 7: JMN1694I-S The named-constant name must be specified after level-number '78'. This entry is ignored, and the compiler skips to the next division, paragraph, level indicator or level-number.

#### Explanation

A named-constant is a name named to the literal. A FILLER is not permitted.

### JMN1695I-S

**The named-constant description entry can only specify a VALUE clause. This entry is ignored, and the compiler skips to the next division, paragraph, level indicator or level-number.**

#### Example

```
[C1695.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1695.
000003 OBJECT.
000004 DATA              DIVISION.
000005 WORKING-STORAGE SECTION.
000006 78 DATA011      PIC X(10).
000007 END OBJECT.
000008 END CLASS C1695.
```

C1695.cob 6: JMN1695I-S The named-constant description entry can only specify a VALUE clause. This entry is ignored, and the compiler skips to the next division, paragraph, level indicator or level-number.

### JMN1696I-S

**Level-number '78' cannot be specified in a @1@. This entry is ignored, and the compiler skips to the next division, paragraph, level indicator or level-number.**

#### Parameter Explanation

@1@ : method prototype definition

#### Example

```
[C1696.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1696.
000003 OBJECT.
000004 PROCEDURE         DIVISION.
000005 METHOD-ID.         M1696 PROTOTYPE.
```

```

000006 DATA          DIVISION.
000007 LINKAGE        SECTION.
000008 78 DATA011    VALUE 10.
000009 END METHOD M1696.
000010 END OBJECT.
000011 END CLASS C1696.

```

C1696.cob 8: JMN1696I-S Level-number '78' cannot be specified in a method prototype definition. This entry is ignored, and the compiler skips to the next division, paragraph, level indicator or level-number.

## JMN1697I-S

**The ANY LENGTH clause can only be specified in level-number '01' of the METHOD definition LINKAGE SECTION. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.**

### Example

```

[C1697.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C1697.
000003 OBJECT.
000004 PROCEDURE      DIVISION.
000005 METHOD-ID.      M1697.
000006 DATA          DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 DATA011    PIC X ANY LENGTH.
000009 END METHOD M1697.
000010 END OBJECT.
000011 END CLASS C1697.

```

C1697.cob 8: JMN1697I-S The ANY LENGTH clause can only be specified in level-number '01' of the METHOD definition LINKAGE SECTION. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.

## JMN1698I-S

**The character in the PICTURE clause must be specified as one character for 'X' or 'N'. The ANY LENGTH clause is ignored.**

### Example

```

[C1698.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C1698.
000003 OBJECT.
000004 PROCEDURE      DIVISION.
000005 METHOD-ID.      M1698.
000006 DATA          DIVISION.
000007 LINKAGE        SECTION.
000008 01 DATA011    PIC 9 ANY LENGTH.
000009 END METHOD M1698.
000010 END OBJECT.
000011 END CLASS C1698.

```

C1698.cob 8: JMN1698I-S The character in the PICTURE clause must be specified as one character for 'X' or 'N'. The ANY LENGTH clause is ignored.

## JMN1699I-S

**The @1@ clause cannot be specified for a filler item. The @1@ clause is ignored.**

### Parameter Explanation

@1@ : TYPEDEF



## Example

```
[C1699.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C1699.
000003 ENVIRONMENT   DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 PROCEDURE     DIVISION.
000007 METHOD-ID.    M1699.
000008 DATA         DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01          TYPEDEF.
000011 END METHOD     M1699.
000012 END OBJECT.
000013 END CLASS C1699.
```

C1699.cob 10: JMN1699I-S The TYPEDEF clause cannot be specified for a filler item. The TYPEDEF clause is ignored.

## JMN1701I-S

---

**The period is missing in @1@, or an invalid word is used.**

### Parameter Explanation

@1@ : END CLASS header, END FACTORY header, END OBJECT header, END METHOD header

## Example

```
[C1701.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C1701.
000003 END CLASS     C1701
```

C1701.cob 3: JMN1701I-S The period is missing in END CLASS header, or an invalid word is used.

## JMN1703I-S

---

**The @2@ is missing from the @1@.**

### Parameter Explanation

@1@ : END CLASS header, END METHOD header

@2@ : class-name, method-name

## Example

```
[C1703.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C1703.
000003 END CLASS.
```

C1703.cob 3: JMN1703I-S The class-name is missing from the END CLASS header.

## JMN1704I-S

---

**The @2@ cannot inherit from itself.**

@2@ : CLASS,

## Example

```
[C1704.cob]
000001 IDENTIFICATION DIVISION.
```

```
000002 CLASS-ID.          C1704 INHERITS C1704.
000003 END CLASS C1704.
```

C1704.cob 2: JMN1704I-S The class cannot inherit from itself.

#### Explanation

You are not allowed to specify the class that you are defining, in the INHERITS clause of that definition.

### JMN1705I-S

---

**The inherited @1@ is missing. The INHERITS clause is ignored.**

#### Parameter Explanation

@1@ : CLASS

#### Example

```
[C1705.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1705 INHERITS.
000003 ENVIRONMENT      DIVISION.
000004 END CLASS C1705.
```

C1705.cob 2: JMN1705I-S The inherited class is missing. The INHERITS clause is ignored.

### JMN1706I-S

---

**@1@ is already specified. @1@ is ignored.**

#### Parameter Explanation

@1@ : INHERITS clause, OVERRIDE, PROPERTY

#### Example

```
[XXXXX.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          XXXXX.
000003 END CLASS        XXXXX.
[C1706.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1706 INHERITS XXXXX INHERITS XXXXX.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006          CLASS XXXXX.
000007 END CLASS C1706.
```

C1706.cob 2: JMN1706I-S INHERITS clause is already specified. INHERITS clause is ignored.

### JMN1707I-S

---

**The @3@ '@1@' specified by the @2@ is missing. The @2@ assumed to refer to the last non-terminated @3@.**

#### Parameter Explanation

@1@ : class-name,method-name,delegate-name,enum-name,interface-name

@2@ : END CLASS header,END METHOD header,END DELEGATE header,END ENUM header,END INTERFACE header

@3@ : class, method, delegate, enum, interface

## Example

```
[C1707.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1707.
000003 END CLASS         CLS1.
```

C1707.cob 3: JMN1707I-S The class 'CLS1' specified by the END CLASS header is missing. The END CLASS header assumed to refer to the last non-terminated class.

## JMN1708I-S

**An invalid character-string is specified in the PROGRAM-ID, or the PROGRAM-ID is missing. The @1@ from the next paragraph or division is used.**

### Parameter Explanation

@1@ : class-name,method-name

## Example

```
[C1708.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          1708.
000003 OBJECT.
000004 PROCEDURE         DIVISION.
000005 METHOD-ID.         1000.
000006 END METHOD        1000.
000007 END CLASS        1708.
```

C1708.cob 2: JMN1708I-S An invalid character-string is specified in the PROGRAM-ID, or the PROGRAM-ID is missing. The class-name from the next paragraph or division is used.

C1708.cob 5: JMN1708I-S An invalid character-string is specified in the PROGRAM-ID, or the PROGRAM-ID is missing. The method-name from the next paragraph or division is used.

### Explanation

Please follow the rule of the user-defined word about the class-name, or the method-name.

## JMN1710I-I

**(CONF)A @1@ is not specified, or an invalid @2@ is specified. A '@3@' @2@ is specified.**

### Parameter Explanation

@1@ : CLASS-ID paragraph, METHOD-ID paragraph

@2@ : class-name, method-name

@3@ : NOCLASID, NOMETDID

## Example

```
[C1710.cob]
000001 @OPTIONS CONF(V4)
000002 IDENTIFICATION DIVISION.
000003 CLASS-ID.          1710.
000004 OBJECT.
000005 PROCEDURE         DIVISION.
000006 METHOD-ID.         2000.
000007 END METHOD        2000.
000008 END OBJECT.
000009 END CLASS        1710.
```

C1710.cob 3: JMN1710I-I (CONF)A CLASS-ID paragraph is not specified, or an invalid class-name is specified. A 'NOCLASID' class-name is specified.

C1710.cob 6: JMN1710I-I (CONF)A METHOD-ID paragraph is not specified, or an invalid method-name is specified. A 'NOMETDID' method-name is specified.

## JMN1715I-S

---

**The @1@ phrase cannot be specified for SEPARATED METHOD. The @1@ phrase is ignored.**

### Parameter Explanation

@1@ : OVERRIDE, PROTOTYPE

### Example

```
[M1715.cob]
000001 IDENTIFICATION DIVISION.
000002 METHOD-ID.      M1715 PROTOTYPE.
000003 PROCEDURE      DIVISION.
000004 END METHOD M1715.
```

M1715.cob 2: JMN1715I-S The PROTOTYPE phrase cannot be specified for SEPARATED METHOD. The PROTOTYPE phrase is ignored.

## JMN1716I-S

---

**A class-name can only be specified for a SEPARATED METHOD. The class-name is ignored.**

### Example

```
[C1.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C1.
000003 END CLASS C1.
[C1716.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C1716 INHERITS C1.
000003 ENVIRONMENT    DIVISION.
000004 CONFIGURATION  SECTION.
000005 REPOSITORY.
000006     CLASS C1.
000007 IDENTIFICATION DIVISION.
000008 OBJECT.
000009 PROCEDURE      DIVISION.
000010 IDENTIFICATION DIVISION.
000011 METHOD-ID.      M1716 OF C1.
000012 PROCEDURE      DIVISION.
000013 END METHOD M1716.
000014 END OBJECT.
000015 END CLASS C1716.
```

C1716.cob 11: JMN1716I-S A class-name can only be specified for a SEPARATED METHOD. The class-name is ignored.

### Explanation

The class name that defines the method prototype is specified for the OF phrase in the METHOD-ID paragraph.

Only the separated method is effective to this code.

## JMN1717I-S

---

**The syntax of the PROPERTY phrase is invalid. The PROPERTY phrase is ignored.**

## Example

```
[C1717.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1717.
000003 ENVIRONMENT      DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 PROCEDURE        DIVISION.
000007 IDENTIFICATION DIVISION.
000008 METHOD-ID.        GET M1717.
000009 PROCEDURE        DIVISION.
000010 END METHOD.
000011 END OBJECT.
000012 END CLASS C1717.
```

C1717.cob 8: JMN1717I-S The syntax of the PROPERTY phrase is invalid. The PROPERTY phrase is ignored.

## JMN1718I-S

**The syntax of the property-specifier is invalid.**

### Example

```
[C1718.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1718.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006     PROPERTY "PR1".
000007 END CLASS C1718.
```

C1718.cob 6: JMN1718I-S The syntax of the property-specifier is invalid.

## JMN1724I-S

**A @1@ paragraph can only be specified in the PROGRAM definition. It is ignored until the next paragraph or division.**

### Parameter Explanation

@1@ : paragraph-name

### Example

```
[C1724.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1724.
000003 AUTHOR.            YYYYY.
000004 ENVIRONMENT      DIVISION.
000005 END CLASS C1724.
```

C1724.cob 3: JMN1724I-S A AUTHOR paragraph can only be specified in the PROGRAM definition. It is ignored until the next paragraph or division.

### Explanation

The following paragraphs can be specified only after the PROGRAM-ID paragraph.

- AUTHOR paragraph
- INSTALLATION paragraph
- DATE-WRITTEN paragraph

- DATE-COMPILED paragraph
- SECURITY paragraph

The COBOL compiler allows these paragraphs to be specified in any sequence. These paragraphs are obsolete language elements and are treated as comment lines.

## JMN1725I-S

---

**CLASS '@1@' must end with an end class header. An end class header is assumed.**

### Parameter Explanation

@1@ : class-name

### Example

```
[C1725.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1725.
000003 ENVIRONMENT      DIVISION.
```

C1725.cob 3: JMN1725I-S CLASS 'C1725' must end with an end class header. An end class header is assumed.

## JMN1726I-S

---

**The @1@ is missing. An @1@ is assumed.**

### Parameter Explanation

@1@ : END FACTORY header,END OBJECT header,END METHOD header

### Example

```
[C1726.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1726.
000003 ENVIRONMENT      DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 PROCEDURE        DIVISION.
000007 END CLASS C1726.
```

C1726.cob 7: JMN1726I-S The END OBJECT header is missing. An END OBJECT header is assumed.

## JMN1735I-S

---

**The position of the @1@ is invalid. The @1@ is ignored, and the compiler skips to the next element.**

### Parameter Explanation

@1@ : definition-name

### Example

```
[C1735.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1735.
000003 ENVIRONMENT      DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 PROCEDURE        DIVISION.
000007 END OBJECT.
000008 FACTORY.
000009 PROCEDURE        DIVISION.
```

```
000010 END FACTORY.  
000011 END CLASS C1735.
```

C1735.cob 8: JMN1735I-S The position of the factory definition is invalid. The factory definition is ignored, and the compiler skips to the next element.

## JMN1736I-S

**The invalid word '@1@' was found. The invalid word is ignored and the compiler skips to the next element.**

### Parameter Explanation

@1@ : invalid word

### Example

```
[C1736.cob]  
000001 IDENTIFICATION DIVISION.  
000002 CLASS-ID. C1736.  
000003 ENVIRONMENT DIVISION.  
000004 OBJECT.  
000005 PROCEDURE DIVISION.  
000006 END OBJECT.  
000007 XXXX.  
000008 END CLASS C1736.
```

C1736.cob 7: JMN1736I-S The invalid word 'XXXX' was found. The invalid word is ignored and the compiler skips to the next element.

## JMN1738I-S

**The @1@ is already specified. The compiler skips to the next element.**

### Parameter Explanation

@1@ : factory definition, object definition

### Example

```
[C1738.cob]  
000001 IDENTIFICATION DIVISION.  
000002 CLASS-ID. C1738.  
000003 ENVIRONMENT DIVISION.  
000004 IDENTIFICATION DIVISION.  
000005 FACTORY.  
000006 PROCEDURE DIVISION.  
000007 END FACTORY.  
000008 FACTORY.  
000009 PROCEDURE DIVISION.  
000010 END FACTORY.  
000011 END CLASS C1738.
```

C1738.cob 8: JMN1738I-S The factory definition is already specified. The compiler skips to the next element.

## JMN1739I-W

**The @1@ clause must be the first clause in the data description entry. The @1@ clause is assumed to be valid.**

### Parameter Explanation

@1@ : TYPEDEF

## Example

```
[C1739.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1739.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01  WK1  PIC X IS TYPEDEF.
000006 END PROGRAM      C1739.
```

C1739.cob 5: JMN1739I-W The TYPEDEF clause must be the first clause in the data description entry. The TYPEDEF clause is assumed to be valid.

## JMN1741I-S

---

**No corresponding end header is specified. The end header is ignored.**

### Example

```
[P1741.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P1741.
000003 PROCEDURE        DIVISION.
000004 END CLASS P1741.
```

P1741.cob 4: JMN1741I-S No corresponding end header is specified. The end header is ignored.

### Explanation

The definition of the end header is not suitable for the IDENTIFICATION DIVISION.

## JMN1742I-S

---

**The separated method must be the specified class-name for the prototype method defined class. The compiler skips to the next element.**

### Example

```
[M1742.cob]
000001 IDENTIFICATION DIVISION.
000002 METHOD-ID.       M1742.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 REPOSITORY.
000006     CLASS XXXXX.
000007 END METHOD M1724.
```

M1742.cob 2: JMN1742I-S The separated method must be the specified class-name for the prototype method defined class. The compiler skips to the next element.

### Explanation

In the separated method, the class name that defines the method prototype is specified for the OF phrase in the METHOD-ID paragraph.

## JMN1744I-S

---

**The end method header for a method defined with GET or SET in the METHOD-ID paragraph must omit the method-name.**

### Example

```
[C1744.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.        C1744.
000003 ENVIRONMENT     DIVISION.
```



```

000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 PROCEDURE      DIVISION.
000007 IDENTIFICATION DIVISION.
000008 METHOD-ID.      GET PROPERTY M1744.
000009 PROCEDURE      DIVISION.
000010 END METHOD M1744.
000011 END OBJECT.
000012 END CLASS C1744.

```

C1744.cob 10: JMN1744I-S The end method header for a method defined with GET or SET in the METHOD-ID paragraph must omit the method-name.

## JMN1745I-S

**No corresponding end header is specified. The compiler skips to the next element.**

### Example

```

[C1745.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C1745.
000003 ENVIRONMENT    DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 PROCEDURE      DIVISION.
000007 IDENTIFICATION DIVISION.
000008 METHOD-ID.      M1745.
000009 PROCEDURE      DIVISION.
000010 END METHOD M1745.
000011 END OBJECT.
000012 END OBJECT.
000013 END CLASS C1745.

```

C1745.cob 12: JMN1745I-S No corresponding end header is specified. The compiler skips to the next element.

## JMN1746I-S

**A literal cannot be specified for a class-name, method-name, delegate-name, ENUM-name, or interface-name.**

### Example

```

[C1746.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      "C1746".
000003 ENVIRONMENT    DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 PROCEDURE      DIVISION.
000007 IDENTIFICATION DIVISION.
000008 METHOD-ID.      "M1746".
000009 PROCEDURE      DIVISION.
000010 END METHOD "M1746".
000011 END OBJECT.
000012 END CLASS "C1746".

```

C1746.cob 2: JMN1746I-S A literal cannot be specified for a class-name, method-name, delegate-name, ENUM-name, or interface-name.

C1746.cob 8: JMN1746I-S A literal cannot be specified for a class-name, method-name, delegate-name, ENUM-name, or interface-name.

C1746.cob 10: JMN1746I-S A literal cannot be specified for a class-name, method-name, delegate-name, ENUM-name, or interface-name.

C1746.cob 12: JMN1746I-S A literal cannot be specified for a class-name, method-name, delegate-name, ENUM-name, or interface-name.

### JMN1748I-S

---

**The repository file for CLASS '@1@' is not allocated. The compiler skips to the next element.**

#### Parameter Explanation

@1@ : class-name

#### Explanation

The following are the most likely causes of this error message:

- There is no reading right in the repository file of the class that contains the method prototype.

### JMN1749I-S

---

**The repository file of CLASS '@1@' is invalid. The compiler skips to the next element.**

#### Parameter Explanation

@1@ : class-name

#### Explanation

The following are the most likely causes of this error message:

- The repository file of the class that contains the method prototype is broken for some reasons. Please compile again, and make the repository file.

### JMN1750I-S

---

**The repository file of CLASS '@1@' is not allocated.**

#### Parameter Explanation

@1@ : class-name

#### Explanation

It doesn't exist the repository file described in the REPOSITORY paragraph or wrong to be name or there is no reading right. Please take the correspondence after confirming the following settings that specify the referred repository file. The number shows the order of retrieving the folder of the destination of the input when the following specification overlaps.

1. Folder specified by the -R option.
2. Folder specified by compiler option REPIN.
3. Folder specified by the COB\_REPIN environment variable.
4. Folder specified by the -dr option.
5. Folder specified by compiler option REP.
6. Current folder.

### JMN1751I-S

---

**The repository file of CLASS '@1@' is invalid.**

#### Parameter Explanation

@1@ : class-name

## Explanation

The following are the most likely causes of this error message:

- The repository file is broken for some reasons. Please compile again, and make the repository file.

## JMN1752I-S

---

**The repository file of CLASS '@1@' does not have information for the PROTOTYPE METHOD. The compiler skips to the next element.**

### Parameter Explanation

@1@ : class-name

## Explanation

The method prototype is not defined in the class specified for the OF phrase of the METHOD-ID paragraph.

## JMN1753I-S

---

**The inherited '@1@' '@2@' is not specified in the REPOSITORY paragraph, or the '@1@'-data cannot be restored. The INHERITS clause is ignored.**

### Parameter Explanation

@1@ : CLASS,INTERFACE

@2@ : class-name, interface-name

## Example

```
[BASE.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. BASE.
000003 END CLASS BASE.
[C1753.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C1753 INHERITS XX.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006 CLASS BASE.
000007 END CLASS C1753.
```

C1753.cob 2: JMN1753I-S The inherited class 'XX' is not specified in the REPOSITORY paragraph, or the class-data cannot be restored. The INHERITS clause is ignored.

## JMN1754I-S

---

**The PROTOTYPE METHOD defined in CLASS '@1@' is not specified in the REPOSITORY paragraph. The compiler skips to the next element.**

### Parameter Explanation

@1@ : class-name

## Example

```
[C1754.cob]
000001 IDENTIFICATION DIVISION.
000002 METHOD-ID. C1754 OF FACTORY OF XX.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
```

```
000006     CLASS BASE.
000007 END METHOD C1754.
```

C1754.cob 5: JMN1754I-S The PROTOTYPE METHOD defined in CLASS 'XX' is not specified in the REPOSITORY paragraph. The compiler skips to the next element.

## JMN1755I-S

### METHOD '@1@' is multi-defined. METHOD '@1@' is ignored.

#### Parameter Explanation

@1@ : method-name

#### Example

```
[C1755A.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1755A.
000003 FACTORY.
000004 PROCEDURE        DIVISION.
000005 METHOD-ID.        M1.
000006 END METHOD M1.
000007 END FACTORY.
000008 END CLASS C1755A.
000009**
[C1755B.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1755B.
000003 OBJECT.
000004 PROCEDURE        DIVISION.
000005 METHOD-ID.        M1.
000006 END METHOD M1.
000007 END OBJECT.
000008 END CLASS C1755B.
000009**
[C1755C.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1755C INHERITS C1755A C1755B.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006     CLASS C1755A
000007     CLASS C1755B.
000008 END CLASS C1755C.
```

C1755C.cob 2: JMN1755I-S METHOD 'M1' is multi-defined. METHOD 'M1' is ignored.

#### Explanation

A class can inherit from one or more classes. In this case, the inheriting class will have all the methods defined for the inherited classes. These include the methods inherited by the inherited class.

## JMN1756I-S

### Inherited same name METHOD '@1@' must have the same interface.

#### Parameter Explanation

@1@ : method-name

#### Example

```
[C1756A.cob]
000001 IDENTIFICATION DIVISION.
```

```

000002 CLASS-ID.          C1756A.
000003 FACTORY.
000004 PROCEDURE         DIVISION.
000005 METHOD-ID.        M1.
000006 END METHOD M1.
000007 END FACTORY.
000008 END CLASS C1756A.
000009**
[C1756B.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1756B.
000003 FACTORY.
000004 PROCEDURE         DIVISION.
000005 METHOD-ID.        M1.
000006 DATA             DIVISION.
000007 LINKAGE           SECTION.
000008 01 P1             PIC X(4).
000009 PROCEDURE         DIVISION USING P1.
000010 END METHOD M1.
000011 END FACTORY.
000012 END CLASS C1756B.
000013**
[C1756C.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1756C INHERITS C1756A C1756B.
000003 ENVIRONMENT       DIVISION.
000004 CONFIGURATION     SECTION.
000005 REPOSITORY.
000006     CLASS C1756A
000007     CLASS C1756B.
000008 END CLASS C1756C.

```

C1756C.cob 2: JMN1756I-S Inherited same name METHOD 'M1' must have the same interface.

## JMN1757I-S

**The @1@ '@2@' is already specified in the REPOSITORY paragraph.**

### Parameter Explanation

@1@ : class

@2@ : type-name

### Example

```

[BASE.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.        BASE.
000003 END CLASS       BASE.
[C1757.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.        C1757.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION     SECTION.
000005 REPOSITORY.
000006     CLASS BASE
000007     CLASS BASE.
000008 END CLASS C1757.

```

C1757.cob 7: JMN1757I-S The class 'BASE' is already specified in the REPOSITORY paragraph.

## JMN1758I-S

---

**The syntax of the special CLASS is invalid.**

**Example**

```
[C1758.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1758.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006     CLASS A AS "*"A" .
000007 END CLASS C1758.
```

C1758.cob 6: JMN1758I-S The syntax of the special CLASS is invalid.

**Explanation**

A special class that can declare in the repository paragraph is the following.

- "\*COM" (or "\*OLE")
- "\*COM-ARRAY" (or "\*OLE-ARRAY")
- "\*COM-EXCEPTION" (or "\*OLE-EXCEPTION")
- "\*COB-BINDTABLE"
- "\*COM: COM server name: COM class name"

**JMN1759I-S**

---

**The syntax of the @1@-specifier is invalid.**

**Parameter Explanation**

@1@ : class

**Example**

```
[C1759.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1759.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006     CLASS "A" .
000007 END CLASS C1759.
```

C1759.cob 6: JMN1759I-S The syntax of the class-specifier is invalid.

**JMN1760I-S**

---

**The CLASS '@2@' referenced by object reference data item @1@ is not specified in the REPOSITORY paragraph. It is assumed to be a universal object reference data item.**

**Parameter Explanation**

@1@ : object reference item

@2@ : class-name

**Example**

```
[C1760.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1760 INHERITS FJBASE.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION SECTION.
```

```

000005 REPOSITORY.
000006     CLASS FJBASE
000007     .
000008 OBJECT.
000009 DATA          DIVISION.
000010 WORKING-STORAGE SECTION.
000011 01 OBJR USAGE OBJECT REFERENCE FJBASE.
000012 PROCEDURE      DIVISION.
000013*
000014 METHOD-ID.      M1760 PROTOTYPE.
000015 END METHOD M1760.
000016*
000017 END OBJECT.
000018 END CLASS C1760.
000019/
[M1760.cob]
000001 IDENTIFICATION DIVISION.
000002 METHOD-ID.      M1760 OF C1760.
000003 ENVIRONMENT    DIVISION.
000004 CONFIGURATION  SECTION.
000005 REPOSITORY.
000006     CLASS C1760
000007     .
000008 END METHOD M1760.

```

M1760.cob 2: JMN1760I-S The CLASS 'FJBASE' referenced by object reference data item OBJR is not specified in the REPOSITORY paragraph. It is assumed to be a universal object reference data item.

## JMN1761I-S

**The definition name of the source that is currently being compiled cannot be specified in the REPOSITORY paragraph.**

### Example

```

[C1761.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C1761.
000003 ENVIRONMENT    DIVISION.
000004 CONFIGURATION  SECTION.
000005 REPOSITORY.
000006     CLASS C1761.
000007 END CLASS C1761.

```

C1761.cob 6: JMN1761I-S The definition name of the source that is currently being compiled cannot be specified in the REPOSITORY paragraph.

## JMN1762I-S

**The inherited @1@ must be specified in the REPOSITORY paragraph. The INHERITS clause is ignored.**

### Parameter Explanation

@1@ : class

### Example

```

[C1762.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C1762 INHERITS BASE.
000003 END CLASS C1762.

```

C1762.cob 2: JMN1762I-S The inherited class must be specified in the REPOSITORY paragraph. The INHERITS clause is ignored.

## JMN1763I-S

**The PROTOTYPE METHOD defined in the CLASS must be specified in the REPOSITORY paragraph. The compiler skips to the next element.**

### Example

```
[M1.cob]
000001 METHOD-ID.      M1 OF FACTORY OF C1763.
000002 END METHOD M1.
[C1763.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C1763.
000003 FACTORY.
000004 PROCEDURE      DIVISION.
000005 METHOD-ID.      M1 PROTOTYPE.
000006 END METHOD M1.
000007 END FACTORY.
000008 END CLASS C1763.
```

M1.cob 1: JMN1763I-S The PROTOTYPE METHOD defined in the CLASS must be specified in the REPOSITORY paragraph. The compiler skips to the next element.

## JMN1764I-S

**Special CLASS '@1@' cannot be inherited. CLASS '@1@' is ignored.**

### Parameter Explanation

@1@ : class-name

### Example

```
[C1764.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C1764 INHERITS BASE.
000003 ENVIRONMENT    DIVISION.
000004 CONFIGURATION  SECTION.
000005 REPOSITORY.
000006     CLASS BASE AS "*OLE".
000007 END CLASS C1764.
```

C1764.cob 2: JMN1764I-S Special CLASS BASE cannot be inherited. CLASS 'BASE' is ignored.

## JMN1765I-S

**Special CLASS '@1@' cannot be defined in a PROTOTYPE METHOD. CLASS '@1@' is ignored.**

### Parameter Explanation

@1@ : class-name

### Example

```
[C1765.cob]
000001 IDENTIFICATION DIVISION.
000002 METHOD-ID.      C1765 OF FACTORY OF XX.
000003 ENVIRONMENT    DIVISION.
000004 CONFIGURATION  SECTION.
000005 REPOSITORY.
000006     CLASS XX AS "*OLE".
000007 END METHOD C1765.
```

C1765.cob 2: JMN1765I-S Special CLASS 'XX' cannot be defined in a PROTOTYPE METHOD. CLASS 'XX' is ignored.



## JMN1766I-U

The repository data cannot be restored. The compilation was terminated. Correct the other reported errors and try the compilation again.

## JMN1767I-S

The CLASS '@1@' specified in the REPOSITORY paragraph must have the same specifier when defined in the PROTOTYPE METHOD. CLASS '@1@' is ignored.

### Parameter Explanation

@1@ : class-name

### Example

```
[C1767.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1767 INHERITS FJBASE.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     CLASS FJBASE
000007     .
000008 OBJECT.
000009 DATA              DIVISION.
000010 WORKING-STORAGE SECTION.
000011 01 OBJR USAGE OBJECT REFERENCE FJBASE.
000012 PROCEDURE          DIVISION.
000013*
000014 METHOD-ID.         M1767 PROTOTYPE.
000015 END METHOD M1767.
000016*
000017 END OBJECT.
000018 END CLASS C1767.
000019/
[M1767.cob]
000001 IDENTIFICATION DIVISION.
000002 METHOD-ID.         M1767 OF C1767.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     CLASS C1767
000007     CLASS FJBASE AS "*COM"
000008     .
000009 PROCEDURE          DIVISION.
000010 END METHOD M1767.
```

M1767.cob 5: JMN1767I-S The CLASS 'FJBASE' specified in the REPOSITORY paragraph must have the same specifier when defined in the PROTOTYPE METHOD. CLASS 'FJBASE' is ignored.

## JMN1768I-S

The repository file for the CLASS '@1@' that defined the PROTOTYPE METHOD must be created with the same VL compiler. The compiler skips to the next element.

### Parameter Explanation

@1@ : class-name

### Explanation

Please recompile the class that defined the method prototype.

## JMN1769I-S

**The format of the repository file for CLASS '@1@' is invalid for this compiler. CLASS '@1@' is ignored.**

### Parameter Explanation

@1@ : class-name

### Explanation

The following 2 points are the most likely causes of this error message:

- It is generated with the compiler at a version level that is newer than the compiler the specified repository file's using it. Please recompile by the compiler using the repository file that becomes an object or update the version level of the compiler at a new version level.
- The specified repository file might be generated with the compiler of a different system. Please recompile by the compiler of the same system as compiler under use, and make the repository file again.

## JMN1770I-W

**Method names starting with '@1@' are reserved for the COBOL system. To use such method names, the OVERRIDE phrase must be specified. It is accepted as written.**

### Parameter Explanation

@1@ : method-name

### Example

```
[C1770.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1770.
000003 OBJECT.
000004 PROCEDURE         DIVISION.
000005 METHOD-ID.         _M.
000006 END METHOD         _M.
000007 END OBJECT.
000008 END CLASS C1770.
```

C1770.cob 5: JMN1770I-W Method names starting with '\_' are reserved for the COBOL system. To use such method names, the OVERRIDE phrase must be specified. It is accepted as written.

### Explanation

Method names starting with '\_' are reserved for the COBOL system. Please avoid using as much as possible about such a method.

## JMN1771I-S

**The first character of the property name cannot be a '@1@'. The PROPERTY phrase is ignored.**

### Parameter Explanation

@1@ : \_ (Underscore)

### Example

```
[C1771.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C1771.
000003 OBJECT.
000004 DATA              DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 DATA-1         PIC X(4).
000007 PROCEDURE         DIVISION.
000008 METHOD-ID.         SET PROPERTY _DATA.
000009 DATA              DIVISION.
```

```

000010 LINKAGE          SECTION.
000011 01 P1            PIC X(4).
000012 PROCEDURE       DIVISION USING P1.
000013     MOVE P1 TO  DATA-1.
000014 END METHOD.
000015 END OBJECT.
000016 END CLASS C1771.

```

C1771.cob 8: JMN1771I-S The first character of the property name cannot be a '\_'. The PROPERTY phrase is ignored.

## JMN1772I-S

**The PROPERTY clause cannot be specified if the data name begins with a '@1@'. The PROPERTY clause is ignored.**

### Parameter Explanation

@1@ : \_ (Underscore)

### Example

```

[C1772.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.        C1772.
000003 OBJECT.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 _DATA        PIC X(4) PROPERTY.
000007 PROCEDURE       DIVISION.
000008 END OBJECT.
000009 END CLASS C1772.

```

C1772.cob 6: JMN1772I-S The PROPERTY clause cannot be specified if the data name begins with a '\_'. The PROPERTY clause is ignored.

## JMN1773I-S

**The parent CLASS '@1@' contains a method name starting with '@2@'. The parent CLASS '@1@' should be recompiled. It is accepted as written.**

### Parameter Explanation

@1@ : class-name

@2@ : underscore

### Example

```

[C1773S.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.        C1773S.
000003 OBJECT.
000004 PROCEDURE       DIVISION.
000005 METHOD-ID.        _M.          *> Compilation with V40L10
000006 END METHOD _M.
000007 END OBJECT.
000008 END CLASS C1773S.

```

```

[C1773.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.        C1773 INHERITS C1773S.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION    SECTION.    *> Compilation with V40L20
000005 REPOSITORY.

```

```
000006 CLASS C1773S.  
000007 END CLASS C1773.
```

C1773.cob 2: JMN1773I-S The parent CLASS 'C1773S' contains a method name starting with '\_'. The parent CLASS 'C1773S' should be recompiled. It is accepted as written.

#### Explanation

When the method that begins with underscore is included in the class that was created with V40L10, recompile is required while using the class.

#### JMN1774I-S

**The AS phrase cannot be specified in internal programs. The compiler skips to the next paragraph or division.**

#### Example

```
[C1774.cob]  
000001 PROGRAM-ID. C1774.  
000002 PROCEDURE DIVISION.  
000003**  
000004 PROGRAM-ID. B AS "EX-NAME".  
000005 END PROGRAM B.  
000006 END PROGRAM C1774.
```

C1774.cob 4: JMN1774I-S The AS phrase cannot be specified in internal programs. The compiler skips to the next paragraph or division.

#### JMN1775I-S

**A nonnumeric literal or a national literal must be specified after an AS phrase. The compiler skips to the next paragraph or division.**

#### Example

```
[C1775.cob]  
000001 PROGRAM-ID. C1775 AS X"414243".  
000002 PROCEDURE DIVISION.  
000003 END PROGRAM C1775.
```

C1775.cob 1: JMN1775I-S A nonnumeric literal or a national literal must be specified after an AS phrase. The compiler skips to the next paragraph or division.

#### JMN1776I-S

**A nonnumeric literal or a national literal must be specified after an AS phrase. The compiler skips to the next valid clause, paragraph, section or division.**

#### Example

```
[C1776.cob]  
000001 PROGRAM-ID. C1776.  
000002 ENVIRONMENT DIVISION.  
000003 CONFIGURATION SECTION.  
000004 REPOSITORY.  
000005 CLASS X AS X"4142".  
000006 END PROGRAM C1776.
```

C1776.cob 5: JMN1776I-S A nonnumeric literal or a national literal must be specified after an AS phrase. The compiler skips to the next valid clause, paragraph, section or division.

#### JMN1778I-S

---

**The repository file for CLASS '@1@' was created with the 'CREATE(REP)' compiler option. It cannot be used for a CLASS defining a PROTOTYPE METHOD. The compiler skips to the next element.**

Parameter Explanation

@1@ : class-name

Example

```
[C1.cob]
000001 @OPTIONS CREATE(REP)
000002 CLASS-ID. C1.
000003 OBJECT.
000004 PROCEDURE DIVISION.
000005 METHOD-ID. M1 PROTOTYPE.
000006 END METHOD M1.
000007 END OBJECT.
000008 END CLASS C1.
[M1.cob]
000001 METHOD-ID. M1 OF C1.
000002 ENVIRONMENT DIVISION.
000003 CONFIGURATION SECTION.
000004 REPOSITORY.
000005     CLASS C1.
000006 END METHOD M1.
```

M1.cob 5: JMN1778I-S The repository file for CLASS 'C1' was created with the 'CREATE(REP)' compiler option. It cannot be used for a CLASS defining a PROTOTYPE METHOD. The compiler skips to the next element.

Explanation

The repository file, created by specifying the compiler option CREATE(REP), is called a temporary repository. It is a temporary file used until the regular repository is created. It can be used only to implement a cross reference class.

**JMN1780I-S**

---

**The repository file for the parent CLASS cannot be restored. The INHERITS clause is ignored.**

**JMN1781I-S**

---

**The type library does not exist in the specified place.**

Explanation

The type library file name specified with the compiler option file doesn't exist or the mistake is found in the name or the PATH.

**JMN1782I-S**

---

**A type library is not specified for the COM server name in the translation option file, or an error was found in the specified name.**

Explanation

The specification of the type library for the COM server name is not set to the compiler option file.

**JMN1783I-S**

---

**An error was caused by the load type library.**

Explanation

Information on the type library is not included in the type library file specified with the compiler option file. Or, a file not suitable is specified for a type library file.

**JMN1784I-S**

---

**The specified class name does not exist in the type library, or it is an attribute that cannot be used with the acquired type.**

Explanation

In the type library file, information on the class that specifies it doesn't exist.

**JMN1785I-S**

---

**An error occurred when acquiring information on the CLASS.**

**JMN1786I-S**

---

**The compile option ENCODE and RCS of CLASS '@1@' must match a current valid source definition compile option. The compilation will continue after this message.**

Parameter Explanation

@1@ : class-name

Example

```
[C1786S.cob]
000001 @OPTIONS RCS(SJIS)
000002 IDENTIFICATION DIVISION.
000003 CLASS-ID.          C1786S.
000004 END CLASS C1786S.
000005**
```

```
[C1786.cob]
000001 @OPTIONS RCS(UTF16)
000002 IDENTIFICATION DIVISION.
000003 CLASS-ID.          C1786 INHERITS C1786S.
000004 ENVIRONMENT      DIVISION.
000005 CONFIGURATION    SECTION.
000006 REPOSITORY.
000007     CLASS C1786S.
000008 END CLASS C1786.
```

c1786.cob 7: JMN1786I-S The compile option ENCODE and RCS of CLASS 'C1786S' must match a current valid source definition compile option. The compilation will continue after this message.

**JMN1788I-S**

---

**The nonnumeric literal in the @1@ clause cannot contain national characters. It is assumed to be a space.**

Parameter Explanation

@1@ : CLASS, ALPHABET

Example

```
[C1788.cob]
000001 @OPTIONS RCS(UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.         C1788.
000004 ENVIRONMENT      DIVISION.
000005 CONFIGURATION    SECTION.
000006 SPECIAL-NAMES.
000007     CLASS KANA IS "あ".
000008 END PROGRAM C1788.
```

C1788.cob 7: JMN1788I-S The nonnumeric literal in the CLASS clause cannot contain national characters. It is assumed to be a space.

## JMN1790I-S

**'DEFINITION' and 'REFERENCE' cannot specify the EXTERNAL clause when compiler option 'THREAD(MULTI)' and 'NOSHREXT' are being used. 'DEFINITION' or 'REFERENCE' is ignored.**

### Example

```
[C1790.cob]
000001 @OPTIONS THREAD(MULTI),NOSHREXT
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C1790.
000004**
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 A PIC X EXTERNAL DEF.
000008**
000009 PROCEDURE DIVISION.
000010 CONTINUE.
000011 END PROGRAM C1790.
```

C1790.cob 7: JMN1790I-S 'DEFINITION' and 'REFERENCE' cannot specify the EXTERNAL clause when compiler option 'THREAD(MULTI)' and 'NOSHREXT' are being used. 'DEFINITION' or 'REFERENCE' is ignored.

## JMN1802I-S

**A @2@ must be specified in the @1@ phrase.**

### Parameter Explanation

@1@ : BINARY-CHAR

@2@ : UNSIGNED

### Example

```
[C1802.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1802.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A USAGE BINARY-CHAR.
000006 END PROGRAM C1802.
```

C1802.cob 5: JMN1802I-S A UNSIGNED must be specified in the BINARY-CHAR phrase.

## JMN1805I-S

**A @2@ can only be specified in a @1@. It is ignored until the next valid paragraph, section or division.**

### Parameter Explanation

@1@ : section name of data division

@2@ : definition name

### Example

```
[C1805.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C1805.
000003 OBJECT.
000004 PROCEDURE DIVISION.
000005 METHOD-ID. C1805M PROTOTYPE.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 END METHOD C1805M.
```

```
000009 END OBJECT.
000010 END CLASS C1805.
```

C1805.cob 7: JMN1805I-S A LINKAGE SECTION can only be specified in a method prototype definition. It is ignored until the next valid paragraph, section or division.

## JMN1813I-S

**The length of a hexadecimal numeric literal cannot be zero. Assumed to be a zero.**

Example

```
[C1813.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1813.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01  A            PIC 9(4) VALUE H"".
000006 END PROGRAM C1813.
```

C1813.cob 5: JMN1813I-S The length of a hexadecimal numeric literal cannot be zero. Assumed to be a zero.

## JMN1814I-W

**Hexadecimal numeric literals must have an even number of characters. A zero is added as the first character.**

Example

```
[C1814.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1814.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01  A            PIC 9(4) VALUE H"FFF".
000006 END PROGRAM C1814.
```

C1814.cob 5: JMN1814I-W Hexadecimal numeric literals must have an even number of characters. A zero is added as the first character.

## JMN1819I-S

**The subschema descriptor file in the SUBSCHEMA-NAME paragraph is incorrect. The SUBSCHEMA-NAME paragraph is ignored.**

Example

```
[C1819.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1819.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION     SECTION.
000005 SUBSCHEMA-NAME.  "MNAAB".
000006 DATA            DIVISION.
000007 WORKING-STORAGE SECTION.
000008 PROCEDURE        DIVISION.
000009     STOP RUN.
000010 END PROGRAM C1819.
[MNAAB.cbl]
000011 FCOM            MNAAS001RC01
000012 01  FCOM.
000013     02  FILLER    PIC X(16).
000014     02  VDBNAME   PIC X(8).
000015     02  RDNAME     PIC X(12).
000016     02  MCRCD     PIC S9(4) COMP.
```



```

000017      02  MCRCTL    PIC S9(4) COMP.
000018      02  FILLER    PIC S9(9) COMP.
000019      02  SETCNT    PIC S9(4) COMP.
000020      02  FILLER    PIC S9(4) COMP.
000021 01  MNAAS001RC01.
000022      02  MNAAS001EN01.
000023          03  CAFUSID  PIC X(8) .
000024      02  FILLER1   PIC X(42) .

```

C1819.cob 5: JMN1819I-S The subschema descriptor file in the SUBSCHEMA-NAME paragraph is incorrect. The SUBSCHEMA-NAME paragraph is ignored.

### Explanation

The mistake is found in the subschema descriptor file. The following 3 points are the most likely causes of this error message:

- There is no main body of the record.
- There is no "\*" that shows the final record in the record name list part. Or, there is no record name list part.
- The file is empty.

### JMN1845I-W

**The syntax is invalid. @1@ assumed valid.**

#### Parameter Explanation

@1@ : SOURCE-COMPUTER paragraph or OBJECT-COMPUTER paragraph, ASSIGN clause

#### Example

```

[C1845.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1845.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 OBJECT-COMPUTER. "COMP1" .
000006 END PROGRAM C1845.

```

C1845.cob 5: JMN1845I-W The syntax is invalid. SOURCE-COMPUTER paragraph and OBJECT-COMPUTER paragraph assumed valid.

### Explanation

The mistake is found in the syntax (obsolete element) treated as a comment. However, it doesn't influence the operation of the program.

### JMN1847I-W

**When compiling a program that is embedded with file name control information (#FILE information) and line number control information (#LINE information), then specify compilation option NONUMBER.**

### JMN1852I-S

**In the ENCODING clause, the alphabet name for the encoding format was not defined. The ENCODING clause is disabled.**

#### Example

```

[c1852.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1852.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET ENC1 IS EBCDIC.

```

```
000007 DATA DIVISION.  
000008 WORKING-STORAGE SECTION.  
000009 01 DATA1 PIC X ENCODING ENC1.  
000010 END PROGRAM C1852.
```

C1852.cob 9: JMN1852I-S In the ENCODING clause, the alphabet name for the encoding format was not defined. The ENCODING clause is disabled.

## JMN1853I-S

**In the ENCODING clause, the alphabet name for the @1@ specification was already defined. The alphabet name initially defined remains.**

### Parameter Explanation

@1@ : ALPHANUMERIC or NATIONAL

### Example

```
[c1853.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1853.  
000003 ENVIRONMENT DIVISION.  
000004 CONFIGURATION SECTION.  
000005 SPECIAL-NAMES.  
000006 ALPHABET ENC1 IS EBCDIC.  
000007 DATA DIVISION.  
000008 WORKING-STORAGE SECTION.  
000009 01 DATA1 PIC X ENCODING ENC1.  
000010 END PROGRAM C1853.
```

c1853.cob 10: JMN1853I-S In the ENCODING clause, the alphabet name for the NATIONAL specification was already defined. The alphabet name initially defined remains.

## JMN1854I-S

**The alphabet name defined in the ENCODING clause was defined multiple times. The ENCODING clause is disabled.**

### Example

```
[c1854.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C1854.  
000003 ENVIRONMENT DIVISION.  
000004 CONFIGURATION SECTION.  
000005 SPECIAL-NAMES.  
000006 ALPHABET UTF FOR NATIONAL IS UTF16  
000007 ALPHABET UTF FOR NATIONAL IS UTF32.  
000008 DATA DIVISION.  
000009 WORKING-STORAGE SECTION.  
000010 01 DATA1 PIC N ENCODING UTF.  
000011 END PROGRAM C1854.
```

C1854.cob 10: JMN1854I-S The alphabet name defined in the ENCODING clause was defined multiple times. The ENCODING clause is disabled.

## JMN1855I-S

**The ENCODING clause must have a valid screen form descriptor name in the COPY statement. The ENCODING clause is disabled.**

## Example

```
[C1855.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1855.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET UTF16 FOR NATIONAL IS UTF16.
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009 COPY C1855CP OF XMDLIB ENCODING UTF16.
000010 END PROGRAM C1855.
```

```
[C185CP.cbl]
000001 01 GRP01.
000002 02 DATA1 PIC N.
```

C1855.cob 9: JMN1846I-W The ENCODING clause must have a valid screen form descriptor name in the COPY statement. The ENCODING clause is disabled.

## JMN1856I-S

**When @1@ is enabled, in the ENCODING clause, alphabet name with encoding @2@ must be specified. The ENCODING clause is disabled.**

### Parameter Explanation

@1@ : "RCS(SJIS)", "RCS(UTF16)", "ENCODE(SJIS)" or "ENCODE(UTF8)"

@2@ : "SJIS", "UTF8 or UTF16" or "UTF8 UTF16 or UTF32"

## Example

```
000001 @OPTIONS RCS(SJIS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C1856.
000004 ENVIRONMENT     DIVISION.
000005 CONFIGURATION   SECTION.
000006 SPECIAL-NAMES.
000007     ALPHABET UTF16 FOR NATIONAL IS UTF16.
000008 DATA DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 DATA1 PIC N ENCODING UTF16.
000011 END PROGRAM C1856.
```

C1856.cob 10: JMN1856I-S When RCS(SJIS) is enabled, in the ENCODING clause, alphabet name with encoding SJIS must be specified. The ENCODING clause is disabled.

## JMN1857I-S

**When UTF32 Encoding format is specified in the screen form descriptor, then there is a need to specify the screen form descriptor that is converted for UTF32. Stop the inclusion of the screen form descriptor.**

## JMN1858I-S

**@2@ cannot be used when compile option @1@ are valid.**

### Parameter Explanation

@1@ : compiler option name

@2@ : Reserved word that shows statement, phrase, and specification that causes the error.

## Example

```
[C1858.cob]
000001 @OPTIONS RCS(ASCII)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C1858.
000004 ENVIRONMENT     DIVISION.
000005 CONFIGURATION   SECTION.
000006 SPECIAL-NAMES.
000007     ALPHABET SJS IS SJIS.
000008 DATA DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 DATA1 PIC X ENCODING SJS.
000011 END PROGRAM C1858.
```

C1858.cob (10) : JMN1858I-S ENCODING cannot be used when compile option RCS(ASCII) are valid.

## JMN1859I-S

---

**'@1@' cannot be specified in the coded character set being used. '@1@' is ignored.**

### Parameter explanation

@1@:Reserved word that shows statement, phrase, and specification that caused the error.

## JMN1900I-W

---

**The level-number hierarchy is invalid.**

### Example

```
[C1900.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1900.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 DATA1.
000006     03 DATA2-1.
000007     04 DATA2-2.
000008     02 DATA2 PIC 9.
000009 END PROGRAM      C1900.
```

C1900.cob 8: JMN1900I-W The level-number hierarchy is invalid.

### Explanation

The hierarchy of the level number is composed in ascending order to 01-49.

## JMN1903I-S

---

**The integer in the RECORD clause must not exceed 2147483647. 2147483647 is assumed.**

### Example

```
[C1903.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1903.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN TO INFILE.
000007 DATA             DIVISION.
000008 FILE              SECTION.
000009 FD IN-F RECORD 2147483648.
```

```
000010 01 IN-R PIC X(80).
000011 END PROGRAM      C1903.
```

C1903.cob 9: JMN1903I-S The integer in the RECORD clause must not exceed 2147483647. 2147483647 is assumed.

## JMN1904I-W

**This program cannot be compiled with compile option 'OPTIMIZE' due to insufficient main storage. Compile option 'NOOPTIMIZE' is assumed.**

## JMN1905I-S

**The 'END DECLARE SECTION' corresponding to the 'BEGIN DECLARE SECTION' is missing. This statement is ignored and the DECLARE SECTION is continued.**

Example

```
[C1905.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C1905.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 SQLSTATE PIC X(5).
000007     EXEC DCSQL END DECLARE SECTION END-EXEC.
000008 END PROGRAM      C1905.
```

C1905.cob 7: JMN1905I-S The 'END DECLARE SECTION' corresponding to the 'BEGIN DECLARE SECTION' is missing. This statement is ignored and the DECLARE SECTION is continued.

## 2.2.3 JMN2000 - JMN2999

2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
2010	2011	2012	2013	2015	2016	2019	2020	2022	2024
2025	2026	2031	2034	2035	2036	2037	2038	2039	2040
2041	2042	2043	2044	2045	2047	2048	2049	2050	2051
2065	2066	2067	2076	2077	2079	2080	2081	2082	2083
2084	2085	2097	2098	2099	2100	2101	2102	2103	2104
2105	2106	2107	2108	2109	2111	2112	2113	2116	2117
2118	2119	2120	2121	2122	2123	2124	2126	2127	2128
2131	2132	2134	2135	2136	2138	2143	2144	2145	2149
2158	2159	2163	2164	2165	2166	2167	2173	2174	2175
2176	2177	2178	2181	2182	2183	2188	2189	2190	2191
2192	2193	2194	2195	2196	2197	2200	2201	2202	2205
2206	2207	2210	2212	2213	2214	2215	2216	2218	2219
2221	2222	2223	2224	2225	2226	2227	2228	2229	2231
2232	2233	2234	2235	2236	2239	2244	2245	2249	2251
2252	2269	2270	2271	2273	2274	2276	2277	2288	2292
2300	2312	2316	2317	2319	2320	2329	2331	2332	2333
2334	2335	2336	2337	2338	2341	2343	2350	2354	2357
2358	2359	2365	2366	2370	2372	2374	2375	2384	2385
2393	2394	2395	2396	2397	2398	2399	2400	2401	2402
2403	2404	2405	2406	2407	2408	2409	2410	2411	2412

2413	2414	2415	2416	2417	2418	2420	2421	2422	2423
2424	2425	2426	2427	2428	2429	2430	2431	2432	2433
2434	2435	2436	2437	2438	2439	2440	2441	2442	2443
2444	2445	2446	2447	2449	2450	2451	2452	2457	2458
2459	2460	2461	2462	2463	2464	2465	2466	2467	2468
2469	2470	2471	2472	2473	2474	2475	2476	2477	2478
2480	2481	2482	2483	2484	2485	2486	2487	2488	2489
2491	2493	2494	2495	2496	2497	2498	2499	2500	2501
2502	2503	2504	2505	2506	2507	2508	2509	2510	2511
2512	2513	2514	2515	2516	2517	2518	2519	2520	2521
2522	2523	2524	2525	2526	2527	2528	2529	2530	2532
2534	2535	2536	2538	2539	2540	2541	2543	2545	2547
2548	2549	2550	2551	2552	2553	2554	2555	2556	2557
2558	2560	2561	2562	2564	2565	2566	2567	2568	2569
2570	2571	2574	2575	2576	2580	2583	2584	2585	2586
2587	2588	2589	2591	2592	2593	2596	2597	2598	2599
2600	2601	2602	2603	2604	2605	2606	2607	2608	2609
2610	2611	2613	2615	2616	2617	2633	2634	2639	2640
2641	2642	2643	2644	2645	2650	2651	2654	2656	2657
2658	2659	2660	2662	2663	2665	2666	2669	2670	2671
2672	2673	2682	2686	2689	2691	2692	2693	2694	2695
2696	2697	2698	2699	2700	2701	2704	2705	2706	2707
2710	2713	2717	2718	2726	2727	2728	2729	2730	2731
2732	2735	2736	2737	2738	2741	2742	2744	2745	2747
2748	2749	2750	2753	2756	2757	2759	2761	2762	2764
2766	2767	2768	2769	2770	2772	2773	2774	2775	2794
2798	2800	2801	2802	2803	2809	2815	2818	2819	2821
2822	2823	2826	2827	2829	2831	2832	2834	2835	2836
2837	2838	2839	2840	2847	2851	2853	2862	2863	2864
2866	2867	2868	2870	2871	2873	2874	2875	2877	2878
2879	2880	2881	2882	2883	2884	2885	2886	2888	2889
2890	2892	2893	2895	2896	2897	2898	2899	2901	2902
2903	2906	2907	2908	2909	2911	2912	2916	2920	2921
2922	2923	2924	2925	2926	2927	2928	2930	2931	2932
2933	2934	2935	2936	2937	2938	2939	2940	2941	2942
2943	2944	2945	2946	2947	2948	2949	2950	2951	2952
2953	2954	2955	2957	2958	2959	2960	2961	2962	2963
2964	2965	2966	2967	2968	2969	2970	2971	2985	2986
2988	2993	2994	2999						

**JMN2000I-S**

The report description entry requires a report group description. The report description entry is ignored.

## Example

```
[P2000.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2000.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE             SECTION.
000010 FD REPFIL REPORT REP1.
000011 REPORT          SECTION.
000012 RD REP1.
000013 PROCEDURE       DIVISION.
000014 END PROGRAM     P2000.
```

P2000.cob 12: JMN2000I-S The report description entry requires a report group description. The report description entry is ignored.

## Explanation

It is a cause that there is no report group description entry following report description entry(level indicator of RD) to which this diagnostic message is output.

The report group description entry is a series of data description entry and that first item is a data description entry with level-number 01 and TYPE clause.

## JMN2001I-S

**The file description entry or sort-merge file description entry requires a record description. The file description entry or sort-merge file description entry is ignored.**

## Example

```
[P2001.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2001.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION   IS SEQUENTIAL
000008     FILE STATUS     IS WFS1.
000009 I-O-CONTROL.
000010 DATA           DIVISION.
000011 FILE             SECTION.
000012 FD SQFILE1.
000013 WORKING-STORAGE SECTION.
000014 01 WFS1         PIC X(2).
000015 PROCEDURE       DIVISION.
000016 END PROGRAM     P2001.
```

P2001.cob 12: JMN2001I-S The file description entry or sort-merge file description entry requires a record description. The file description entry or sort-merge file description entry is ignored.

## Explanation

It is a cause that there is no record description entry following file description entry(level indicator of FD) to which this diagnostic message is output.

The record description entry is a series of data description entry to specify the structure of the record.

## JMN2002I-S

**A record description entry cannot be specified for a file description entry with a REPORT clause. The record description entry is ignored until the next file description entry or sort-merge file description entry.**

#### Example

```
[P2002.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2002.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD REPFIL REPORT REP1.
000011 01 REPREC       PIC X(80).
000012 REPORT          SECTION.
000013 RD REP1.
000014 01 TYPE DE LINE PLUS 1.
000015  02 COLUMN 1   PIC X(10) VALUE SPACE.
000016 PROCEDURE       DIVISION.
000017 END PROGRAM     P2002.
```

P2002.cob 10: JMN2002I-S A record description entry cannot be specified for a file description entry with a REPORT clause. The record description entry is ignored until the next file description entry or sort-merge file description entry.

#### Explanation

Because the record description entry is specified following the file description entry (level indicator FD) of the report file, this diagnostic message is output. The file that specifies the REPORT clause becomes a report file.

### JMN2003I-S

**The length of redefining item with an EXTERNAL clause cannot exceed the length of the item with an EXTERNAL clause. It is accepted as written.**

#### Example

```
[P2003.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2003.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 D1 EXTERNAL.
000007  02                PIC X(10).
000008 01 R2 REDEFINES D1.
000009  02                PIC N(10).
000010 PROCEDURE       DIVISION.
000011 END PROGRAM     P2003.
```

P2003.cob 8: JMN2003I-S The length of redefining item with an EXTERNAL clause cannot exceed the length of the item with an EXTERNAL clause. It is accepted as written.

#### Explanation

When an external data record is redefined, the length of the redefined item is equal to the length of the redefined item or should be small.

For instance, in the sample program, R2 of the length of the data item is larger than that of D1 though D1 with an external attribute has been redefined with R2. This diagnostic message is output because of this.

### JMN2004I-S



**When a SYNCHRONIZED clause is specified for an elementary item with a REDEFINES clause or a first elementary item that is a part of a group that contains a REDEFINES clause, the boundary of the redefined item must be adjusted to correct the boundary of the elementary item. The boundary is not adjusted.**

#### Example

```
[P2004.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2004.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 G1.
000007 02              PIC X(1).
000008 02 E1          PIC X(20).
000009 02 G2 REDEFINES E1.
000010 03 E2          PIC S9(4) BINARY SYNC.
000011 03 E3          PIC S9(4) BINARY SYNC.
000012 03 E4          PIC S9(4) BINARY SYNC.
000013 PROCEDURE      DIVISION.
000014 END PROGRAM     P2004.
```

P2004.cob 10: JMN2004I-S When a SYNCHRONIZED clause is specified for an elementary item with a REDEFINES clause or a first elementary item that is a part of a group that contains a REDEFINES clause, the boundary of the redefined item must be adjusted to correct the boundary of the elementary item. The boundary is not adjusted.

#### Explanation

The SYNCHRONIZED clause inserts slack byte or slack bit before of the data item that specifies this clause if necessary, and the boundary is adjusted. However, slack byte or slack bit cannot be inserted for the redefine item(with SYNCHRONIZED clause) that corresponds to the following conditions.

- An elementary item
- A first subordinate item of a group item

In the sample program, to correspond to the terms and conditions above, it cannot be done though the insertion of the slack byte is necessary before data item E2.

#### JMN2005I-S

**The file-name for the file description entry or the sort-merge file description entry must be defined at the SELECT clause of the FILE-CONTROL paragraph. A sequential file is assumed.**

#### Example

```
[P2005.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2005.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 DATA           DIVISION.
000006 FILE             SECTION.
000007 FD SQFILE1.
000008 01 SQF1REC.
000009 02              PIC X(80).
000010 WORKING-STORAGE SECTION.
000011 01 WFS1         PIC X(2).
000012 PROCEDURE      DIVISION.
000013 END PROGRAM     P2005.
```

P2005.cob 7: JMN2005I-S The file-name for the file description entry or the sort-merge file description entry must be defined at the SELECT clause of the FILE-CONTROL paragraph. A sequential file is assumed.

## Explanation

The following descriptions are necessary at each file.

- A file control entry
- A file description entry

Because the file control entry corresponding to the file name specified by the file description entry is not described, this diagnostic message is output.

In the sample program, this message is out because the file control entry to file SQFILE1 is not described.

## JMN2006I-S

---

**The file-name in the SELECT clause must be a unique file-name in the description entry of FD or SD.**

### Example

```
[P2006.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2006.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE             SECTION.
000009 WORKING-STORAGE SECTION.
000010 PROCEDURE       DIVISION.
000011 END PROGRAM     P2006.
```

P2006.cob 6: JMN2006I-S The file-name in the SELECT clause must be a unique file-name in the description entry of FD or SD.

## Explanation

The following descriptions are necessary at each file.

- A file control entry
- A file description entry

Following is the cause of this diagnostic message.

- The file description entry corresponding to the file name specified in the file control entry is not defined.
- The file description entry corresponding to the file name specified in the file control entry is multiple defined.

In the sample program, this message is out because the file description entry to file SQFILE1 is not described.

## JMN2007I-S

---

**The file-name in the SELECT clause must not be same as the file-names in other SELECT clauses.**

### Example

```
[P2007.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2007.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT SQFILE1 ASSIGN TO SYS001.
000008 I-O-CONTROL.
000009 DATA           DIVISION.
000010 FILE             SECTION.
000011 FD SQFILE1.
```

```

000012 01 SQF1REC.
000013 02          PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE    DIVISION.
000016 END PROGRAM  P2007.

```

P2007.cob 7: JMN2007I-S The file-name in the SELECT clause must not be same as the file-names in other SELECT clauses.

### Explanation

A file-name should be unique in the following definition.

- Program definition
- Factory definition
- Object definition
- Method definition

In the sample program, this message is out because two or more file control entries are specified for the same file-name(SQFILE1).

### JMN2008I-W

**When the SIGN clause is specified for a group item, at least one signed external decimal item must be specified for subordinating elementary items. The SIGN clause is ignored.**

#### Example

```

[P2008.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2008.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 G1 SIGN LEADING.
000006 02 E1          PIC X(10).
000007 02 E2          PIC 9(10).
000008 PROCEDURE      DIVISION.
000009 END PROGRAM    P2008.

```

P2008.cob 5: JMN2008I-W When the SIGN clause is specified for a group item, at least one signed external decimal item must be specified for subordinating elementary items. The SIGN clause is ignored.

### Explanation

The SIGN clause specifies the sign position and representation mode of a numeric data item. But In the following cases, it is ineffectual.

- A numeric data whose PICTURE character-string does not contains the character "S".
- The usage of the item is not display.

When this message is out, the SIGN clause is ineffectual. You should delete the SIGN clause.

### JMN2009I-S

**The '@1@' of the USAGE clause cannot be specified for an item with a PICTURE clause.**

#### Parameter Explanation

@1@ : COMPUTATIONAL-1, COMPUTATIONAL-2, INDEX, POINTER, PROCEDURE-POINTER, BINARY-CHAR, BINARY-SHORT, BINARY-LONG or BINARY-DOUBLE

#### Example

```

[P2009.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2009.
000003 ENVIRONMENT     DIVISION.

```

```

000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 E1          PIC S9(9) BINARY-LONG.
000007 PROCEDURE      DIVISION.
000008 END PROGRAM    P2009.

```

P2009.cob 6: JMN2009I-S The 'BINARY-LONG' of the USAGE clause cannot be specified for an item with a PICTURE clause.

### Explanation

The PICTURE clause cannot be specified for the data item whose the usage is below.

- COMPUTATIONAL-1(COMP-1)
- COMPUTATIONAL-2(COMP-2)
- INDEX
- POINTER
- PROCEDURE-POINTER
- BINARY-CHAR
- BINARY-SHORT
- BINARY-LONG
- BINARY-DOUBLE

Please delete the PICTURE clause.

### JMN2010I-S

**The USAGE clause for items subordinate to the group item must be of same format as the USAGE clause for the group item. The USAGE clause specified for the group item is used.**

### Example

```

[P2010.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2010.
000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 G1 DISPLAY.
000007 02 E1          PIC S9(9).
000008 02 E2          PIC S9(9) BINARY.
000009 02 E3          PIC S9(9).
000010 PROCEDURE      DIVISION.
000011 END PROGRAM    P2010.

```

P2010.cob 8: JMN2010I-S The USAGE clause for items subordinate to the group item must be of the same format as the USAGE clause for the group item. The USAGE clause specified for the group item is used.

### Explanation

The USAGE clause can be specified also for the group item. However, it should be the following either of the elementary item subordinate to the group item that specifies the USAGE clause.

- A elementary item without USAGE clause.
- A elementary item with a same USAGE clause as the group item.

In the sample program, the USAGE clause of the subordinate item(E2) is differ from that of the group item. this is cause of the diagnostic message output.

### JMN2011I-S

---

**A BIT phrase can only be specified for a Boolean item.**

**Example**

```
[P2011.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2011.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM         PIC S9(9) BIT.
000007 PROCEDURE       DIVISION.
000008 END PROGRAM     P2011.
```

P2011.cob 6: JMN2011I-S A BIT phrase can only be specified for a Boolean item.

**Explanation**

BIT(USAGE IS BIT clause) indicates that the data item is a Boolean item. If this USAGE clause is specified, their PICTURE character-string of this data description entry must consist of the character "1" only.

**JMN2012I-S**

---

**BINARY, COMPUTATIONAL, COMPUTATIONAL-3, or PACKED-DECIMAL must be specified for a numeric item.**

**Example**

```
[P2012.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2012.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM         PIC X(10) BINARY.
000007 PROCEDURE       DIVISION.
000008 END PROGRAM     P2012.
```

P2012.cob 6: JMN2012I-S BINARY, COMPUTATIONAL, COMPUTATIONAL-3, or PACKED-DECIMAL must be specified for a numeric item.

**Explanation**

BINARY(USAGE IS BINARY clause) or COMPUTATIONAL(USAGE IS COMPUTATIONAL clause) indicates that the data item is a binary item. COMPUTATIONAL-3(USAGE IS COMPUTATIONAL-3 clause) or PACKED-DECIMAL(USAGE IS PACKED-DECIMAL clause) indicates that the data item is a packed decimal item. If these clause is specified, their PICTURE character-string of the data description entry must consist of the symbol "P", "S", "V" or "9" only.

BINARY and COMPUTATIONAL are synonyms. COMPUTATIONAL-3 and PACKED-DECIMAL are synonyms.

**JMN2013I-S**

---

**The SIGN clause can be specified for a signed external decimal item or a group item.**

**Example**

```
[P2013.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2013.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM1         PIC 9(10) DISPLAY SIGN LEADING.
000007 01 WNUM2         PIC 9(10) BINARY SIGN TRAILING.
```

```
000008 PROCEDURE      DIVISION.
000009 END PROGRAM    P2013.
```

P2013.cob 6: JMN2013I-S The SIGN clause can be specified for a signed external decimal item or a group item.

P2013.cob 7: JMN2013I-S The SIGN clause can be specified for a signed external decimal item or a group item.

## JMN2015I-S

**The JUSTIFIED clause cannot be specified for a group item.**

### Example

```
[P2015.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2015.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGROUP JUST.
000007 02 WE1          PIC X(1).
000008 02 WE2          PIC 9(9) BINARY.
000009 PROCEDURE       DIVISION.
000010 END PROGRAM     P2015.
```

P2015.cob 6: JMN2015I-S The JUSTIFIED clause cannot be specified for a group item.

## JMN2016I-S

**The JUSTIFIED clause can only be specified for an alphabetic, alphanumeric, or national item.**

### Example

```
[P2016.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2016.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM          PIC S9(10) JUST.
000007 PROCEDURE       DIVISION.
000008 END PROGRAM     P2016.
```

P2016.cob 6: JMN2016I-S The JUSTIFIED clause can only be specified for an alphabetic, alphanumeric, or national item.

## JMN2019I-W

**A REDEFINES clause cannot be specified for an item with level number 01 in the file section. The REDEFINES clause is ignored.**

### Example

```
[P2019.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2019.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1.
000011 01 SQF1REC.
000012 02            PIC X(80).
```

```

000013 01 REDEFINES SQF1REC.
000014 02          PIC N(40).
000015 PROCEDURE   DIVISION.
000016 END PROGRAM P2019.

```

P2019.cob 13: JMN2019I-W A REDEFINES clause cannot be specified for an item with level number 01 in the file section. The REDEFINES clause is ignored.

#### Explanation

When two or more record description entry are written in the file section, their record area is redefined implicitly.

### JMN2020I-S

#### An item redefined by the REDEFINES clause is not defined correctly.

#### Example

```

[P2020.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2020.
000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 DA1        PIC X(20).
000008 02 .
000009 03 RDA1 REDEFINES DA1
000010          PIC N(10).
000011 PROCEDURE     DIVISION.
000012 END PROGRAM   P2020.

```

P2020.cob 9: JMN2020I-S An item redefined by the REDEFINES clause is not defined correctly.

#### Explanation

The name that defined the redefined character position (the data-name specified at the left of the REDEFINES clause) was not found. The data description entry of the data-name specified at the left of the REDEFINES clause must meet the following requirements:

- It should be a declaration immediately before the data description entry that specifies the REDEFINES. If the item immediately before the data description entry also contains a REDEFINES, any data-name that has already been declared can define the character position of the REDEFINES target.
- The level number of the data description entry that contains the REDEFINES and the level number of the redefined item should be the same.
- A data description entry with a smaller level number cannot be placed between the data description entry containing the REDEFINES and the redefined item.

### JMN2022I-S

#### The @1@ clause cannot be specified for an item redefined by the REDEFINES clause. The REDEFINES clause is ignored.

#### Parameter Explanation

@1@ : OCCURS or TYPE.

#### Example

```

[C2022.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     C2022.
000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A.

```

```

000006 02 A1 OCCURS 10.
000007 03 PIC X(1).
000008 02 A2 REDEFINES A1.
000009 03 PIC N(5).
000010 PROCEDURE DIVISION.
000011 END PROGRAM C2022.

```

C2022.cob 8: JMN2022I-S The OCCURS clause cannot be specified for an item redefined by the REDEFINES clause. The REDEFINES clause is ignored.

## JMN2024I-S

**If an item redefined by a REDEFINES clause is an internal Boolean item without a SYNCHRONIZED clause, the redefining item must also be an internal Boolean item.**

### Example

```

[P2024.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2024.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA.
000007 02 WELM1 PIC 1(9) BIT.
000008 02 WELM2 PIC 1(7) BIT.
000009 02 WRLEM REDEFINES WELM2
000010 PIC X(3).
000011 PROCEDURE DIVISION.
000012 END PROGRAM P2024.

```

P2024.cob 9: JMN2024I-S If an item redefined by a REDEFINES clause is an internal Boolean item without a SYNCHRONIZED clause, the redefining item must also be an internal Boolean item.

## JMN2025I-W

**The VALUE clause cannot be specified for a data description entry in a based-storage section. The VALUE clause is ignored.**

### Example

```

[P2025.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2025.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 BASED-STORAGE SECTION.
000006 01 BDA PIC X(20) VALUE SPACE.
000007 PROCEDURE DIVISION.
000008 END PROGRAM P2025.

```

P2025.cob 6: JMN2025I-W The VALUE clause cannot be specified for a data description entry in a based-storage section. The VALUE clause is ignored.

### Explanation

The VALUE clause specifies the initial value of a data item. Unlike the WORKING-STORAGE section, data defined in the BASED-STORAGE section occupies no memory until it is referenced with a pointer data item. The data defined in the BASED-STORAGE section cannot contain the initial value.

## JMN2026I-W



---

**The VALUE clause cannot be specified for a data description entry in a FILE SECTION or LINKAGE SECTION. The VALUE clause is ignored.**

**Example**

```
[P2026.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2026.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD SQFILE1.
000010 01 SQF1REC.
000011 02              PIC X(80) VALUE SPACE.
000012 LINKAGE        SECTION.
000013 01 LK1         PIC X(2) VALUE SPACE.
000014 PROCEDURE      DIVISION USING LK1.
000015 END PROGRAM     P2026.
```

P2026.cob 11: JMN2026I-W The VALUE clause cannot be specified for a data description entry in a FILE SECTION or LINKAGE SECTION. The VALUE clause is ignored.

P2026.cob 13: JMN2026I-W The VALUE clause cannot be specified for a data description entry in a FILE SECTION or LINKAGE SECTION. The VALUE clause is ignored.

**Explanation**

The VALUE clause specifies the initial value of a data item. The data description entry in the file section defines the structure of the file's records. The data description entry in the linkage section defines the data structure which is referenced by the calling program and the called program. These items cannot contain initial values.

**JMN2031I-S**

---

**The VALUE clause cannot be specified for an @1@ item.**

**Parameter Explanation**

@1@ : Index data or external floating-point.

**Example**

```
[P2031.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2031.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WEXFL         PIC +9.9E+99 VALUE 0.
000007 01 WIDX        INDEX          VALUE 0.
000008 PROCEDURE      DIVISION.
000009 END PROGRAM     P2031.
```

P2031.cob 6: JMN2031I-S The VALUE clause cannot be specified for an external floating-point item.

P2031.cob 7: JMN2031I-S The VALUE clause cannot be specified for an index data item.

**JMN2034I-S**

---

**The numeric literal of the VALUE clause specifies a value which is truncated to zero. Figurative constant ZERO is assumed.**

## Example

```
[C20341.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C20341.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 AREC1 PIC 99 VALUE 12.5.
000009 PROCEDURE DIVISION.
000010 END PROGRAM C20341.
```

C20341.cob 8: JMN2034I-S The numeric literal of the VALUE clause specifies a value which is truncated to zero. Figurative constant ZERO is assumed.

## Explanation

The number of digits of the numeric item is too large to be stored in the numerical value specified by the VALUE clause. The numeric item is truncated to zero. An initial value cannot be correctly set.

The figurative constant ZERO is assumed, but neither the object file nor the executable file are generated.

## JMN2035I-W

**A signed numeric literal cannot be specified for an unsigned numeric item. The sign of the numeric literal is ignored.**

## Example

```
[P2035.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2035.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WNUM PIC 9(3)V99 VALUE -12.34.
000006 PROCEDURE DIVISION.
000007 END PROGRAM P2035.
```

P2035.cob 5: JMN2035I-W A signed numeric literal cannot be specified for an unsigned numeric item. The sign of the numeric literal is ignored.

## Explanation

The initial value specified by the VALUE clause for an unsigned integer item must be an unsigned numeric literal.

If a signed numeric literal is specified, the sign becomes invalid and the numeric item is set as an unsigned numeric literal.

## JMN2036I-S

**A nonnumeric literal, figurative constant, or symbolic character must be specified in the VALUE clause of a group item. The figurative constant 'SPACE' is assumed.**

## Example

```
[P2036.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2036.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WGRP VALUE N" { ".
000006 02 WELM1 PIC X(2).
000007 02 WELM2 PIC X(2).
000008 02 WELM3 PIC X(2).
```

```
000009 PROCEDURE      DIVISION.
000010 END PROGRAM    P2036.
```

P2036.cob 5: JMN2036I-S A nonnumeric literal, figurative constant, or symbolic character must be specified in the VALUE clause of a group item. The figurative constant 'SPACE' is assumed.

#### Explanation

The initial value specified by the VALUE clause for a group item must be a nonnumeric literal, a figurative constant or a symbolic-character. Values other than these are invalid.

The figurative constant SPACE is assumed, but neither the object file nor the executable file are generated.

### JMN2037I-S

**A numeric literal or figurative constant 'ZERO' must be specified in the VALUE clause of an internal floating-point item. The figurative constant 'ZERO' is assumed.**

#### Example

```
[P2037.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2037.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WNUM         COMP-1 VALUE SPACE.
000006 PROCEDURE      DIVISION.
000007 END PROGRAM    P2037.
```

P2037.cob 5: JMN2037I-S A numeric literal or figurative constant 'ZERO' must be specified in the VALUE clause of an internal floating-point item. The figurative constant 'ZERO' is assumed.

#### Explanation

The initial value specified by the VALUE clause for an internal floating-point data item must be a numeric literal or a figurative constant ZERO. Values other than these are invalid.

The figurative constant ZERO is assumed, but neither the object file nor the executable file are generated.

### JMN2038I-S

**Length of the literal in the VALUE clause must not exceed the length of the item. The extra characters at the right end of the literal are truncated.**

#### Example

```
[P2038.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2038.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDX          PIC X(2) VALUE "ABC".
000007 PROCEDURE      DIVISION.
000008 END PROGRAM    P2038.
```

P2038.cob 6: JMN2038I-S Length of the literal in the VALUE clause must not exceed the length of the item. The extra characters at the right end of the literal are truncated.

#### Explanation

The display or Boolean item is too large to be stored in the constant specified by the VALUE clause.

The literal is truncated on the right and is set to the data item, but neither the object file nor the executable file are generated.

## JMN2039I-S

**A numeric literal or figurative constant 'ZERO' must be specified in the VALUE clause of a numeric item. Figurative constant 'ZERO' is assumed.**

### Example

```
[P2039.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2039.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDX          PIC 9(2) VALUE "ABC" .
000007 PROCEDURE       DIVISION.
000008 END PROGRAM     P2039.
```

P2039.cob 6: JMN2039I-S A numeric literal or figurative constant 'ZERO' must be specified in the VALUE clause of a numeric item. Figurative constant 'ZERO' is assumed.

### Explanation

The initial value specified by the VALUE clause for a numeric item must be a numeric literal or a figurative constant ZERO. Values other than these are invalid.

The figurative constant ZERO is assumed, but neither the object file nor the executable file are generated.

## JMN2040I-S

**A nonnumeric literal, figurative constant, or symbolic character must be specified in the VALUE clause of an alphabetic item, alphanumeric item, alphanumeric edited item, or numeric edited item. The figurative constant 'SPACE' is assumed.**

### Example

```
[P2040.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2040.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDX          PIC X(2) VALUE N" " .
000007 01 WNE          PIC Z,ZZ9 VALUE 12.
000008 PROCEDURE       DIVISION.
000009 END PROGRAM     P2040.
```

P2040.cob 6: JMN2040I-S A nonnumeric literal, figurative constant, or symbolic character must be specified in the VALUE clause of an alphabetic item, alphanumeric item, alphanumeric edited item, or numeric edited item. The figurative constant 'SPACE' is assumed.

P2040.cob 7: JMN2040I-S A nonnumeric literal, figurative constant, or symbolic character must be specified in the VALUE clause of an alphabetic item, alphanumeric item, alphanumeric edited item, or numeric edited item. The figurative constant 'SPACE' is assumed.

### Explanation

The initial value specified by the VALUE clause for an alphabetic item, an alphanumeric data item, an alphanumeric edited data item or a numeric edited data item must be a nonnumeric literal, a figurative constant or a symbolic-character. Values other than these are invalid.

The figurative constant SPACE is assumed, but neither the object file nor the executable file are generated.

## JMN2041I-S

---

**If the VALUE clause is specified for a numeric item following 'P', the value of the character position corresponding with 'P' of the numeric item must be zero. The value of the character position corresponding with 'P' of the numeric item is assumed to be zero.**

**Example**

```
[P2041.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2041.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM2        PIC 999PP VALUE 1234.
000007 PROCEDURE       DIVISION.
000008 END PROGRAM     P2041.
```

P2041.cob 6: JMN2041I-S If the VALUE clause is specified for a numeric item following 'P', the value of the character position corresponding with 'P' of the numeric item must be zero. The value of the character position corresponding with 'P' of the numeric item is assumed to be zero.

**Explanation**

A "P" indicates an assumed decimal scaling position. A "P" may appear in the leftmost or rightmost digit position of a PICTURE clause. If "P" is specified in the leftmost position of a PICTURE clause, the assumed decimal point is at the leftmost position of the PICTURE. If "P" is written at the rightmost position of a PICTURE clause, the decimal point is assumed to be at the rightmost position of the PICTURE.

When the decimal point position in the PICTURE character-string is aligned with the decimal point position in the value specified for VALUE clause, the numeric character at the position of character "P" should be "0".

The value is assumed to be zero at the position of "P", but neither the object file nor the executable file are generated.

**JMN2042I-S**

---

**A boolean literal or figurative constant ZERO must be specified in the VALUE clause of a boolean item. Figurative constant ZERO is assumed.**

**Example**

```
[P2042.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2042.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WBOOL        PIC 1(1) VALUE 0.
000007 PROCEDURE       DIVISION.
000008 END PROGRAM     P2042.
```

P2042.cob 6: JMN2042I-S A boolean literal or figurative constant ZERO must be specified in the VALUE clause of a boolean item. Figurative constant ZERO is assumed.

**Explanation**

The initial value specified by the VALUE clause for a Boolean item must be a Boolean literal or a figurative constant ZERO. Values other than these are invalid.

The figurative constant ZERO is assumed, but neither the object file nor the executable file are generated.

**JMN2043I-W**

---

**A Boolean literal cannot be specified in the VALUE clause of an alphabetic, alphanumeric, or alphanumeric edited item. Each Boolean character is assumed to be 1 bit, and is stored left-aligned.**

## Example

```
[P2043.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2043.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WBOOL        PIC X(1) VALUE B"11110000".
000007 PROCEDURE       DIVISION.
000008 END PROGRAM     P2043.
```

P2043.cob 6: JMN2043I-W A Boolean literal cannot be specified in the VALUE clause of an alphabetic, alphanumeric, or alphanumeric edited item. Each Boolean character is assumed to be 1 bit, and is stored left-aligned.

## Explanation

If a Boolean literal is specified for an initial value of the alphabetic item, alphanumeric data item or alphanumeric edited data item, the Boolean character ("0" or "1") is assumed to be 1 bit and is set to the item. The value is stored left justified and padded with spaces.

## JMN2044I-S

---

**The length of a Boolean literal in an alphabetic, alphanumeric, or alphanumeric edited item must be a multiple of 8. The Boolean character '0' is added to the right of the specified literal until its length is a multiple of 8.**

## Example

```
[P2044.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2044.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WBOOL        PIC X(1) VALUE B"111100".
000007 PROCEDURE       DIVISION.
000008 END PROGRAM     P2044.
```

P2044.cob 6: JMN2044I-S The length of a Boolean literal in an alphabetic, alphanumeric, or alphanumeric edited item must be a multiple of 8. The Boolean character '0' is added to the right of the specified literal until its length is a multiple of 8.

## Explanation

When a Boolean literal is the initial value of an alphabetic, alphanumeric or alphanumeric edited data item, one Boolean character ('0' or '1') is assumed to occupy the first bit. Boolean characters must be multiples of eight.

If the number of Boolean characters is not a multiple of eight, Boolean character '0's are inserted to the right of a Boolean literal to make it a multiple of eight. Neither the object file nor the executable file are generated.

## JMN2045I-S

---

**National literal or figurative constants SPACE, HIGH-VALUE, or LOW-VALUE must be specified in the VALUE clause of a national item. The figurative constant 'SPACE' is assumed.**

## Example

```
[P2045.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2045.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WBOOL        PIC N(1) VALUE " A " .
```

```
000007 PROCEDURE      DIVISION.
000008 END PROGRAM     P2045.
```

P2045.cob 6: JMN2045I-S National literal or figurative constants SPACE, HIGH-VALUE, or LOW-VALUE must be specified in the VALUE clause of a national item. The figurative constant 'SPACE' is assumed.

#### Explanation

The initial value specified by the VALUE clause for a national item must be a national literal, a figurative constant SPACE, HIGH-VALUE or LOW-VALUE. Values other than these are invalid.

The figurative constant SPACE is assumed, but neither the object file nor the executable file are generated.

#### JMN2047I-W

**The @1@ clause and the SYMBOLIC DESTINATION clause with @2@ are specified for a presentation file. The @1@ clause is ignored.**

#### Parameter Explanation

@1@ : DESTINATION-1, DESTINATION-2, DESTINATION-3, END KEY, FORMAT, GROUP, MESSAGE CLASS, MESSAGE CODE, MESSAGE MODE, MESSAGE OWNER, PROCESSING CONTROL, PROCESSING MODE, SELECTED FUNCTION, SESSION CONTROL or UNIT CONTROL.

@2@ : DSP, PRT, ACM, APL, CMD or TRM.

#### Example

```
[C2047.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C2047.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT AFILE ASSIGN TO GS-DD1
000007             SYMBOLIC DESTINATION IS "PRT"
000008             MESSAGE CODE IS W001.
000009 DATA DIVISION.
000010 FILE SECTION.
000011     FD AFILE.
000012     01 A           PIC X(80).
000013 WORKING-STORAGE SECTION.
000014     01 W001       PIC X(4).
000015 PROCEDURE DIVISION.
```

C2047.cob 11: JMN2047I-W The MESSAGE CODE clause and the SYMBOLIC DESTINATION clause with PRT are specified for a presentation file. The MESSAGE CODE clause is ignored.

#### Explanation

The clause of the file control entry for the presentation file module is evaluated to determine if it can be specified in combination with the specification of the SYMBOLIC DESTINATION clause. If the clause is one that cannot be specified, it becomes invalid.

#### JMN2048I-S

**The @1@ clause cannot be specified when a SYMBOLIC DESTINATION clause with @2@ is specified for the presentation file.**

#### Parameter Explanation

@1@ : DESTINATION-1, DESTINATION-2, DESTINATION-3, END KEY, MESSAGE CLASS, MESSAGE CODE, MESSAGE MODE, MESSAGE OWNER, PROCESSING CONTROL, SELECTED FUNCTION or SESSION CONTROL.

@2@ : DSP, PRT, ACM, APL, CMD, TRM or WST.

## Example

```
[C2048.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C2048.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT AFILE ASSIGN TO GS-DD1
000007             SYMBOLIC DESTINATION IS "WST"
000008             MESSAGE CODE IS W001.
000009 DATA DIVISION.
000010 FILE SECTION.
000011     FD AFILE.
000012     01 A             PIC X(80).
000013 WORKING-STORAGE SECTION.
000014     01 W001         PIC X(4).
000015 PROCEDURE DIVISION.
```

C2048.cob 11: JMN2048I-S The MESSAGE CODE clause cannot be specified when a SYMBOLIC DESTINATION clause with WST is specified for the presentation file.

## Explanation

The clause of the file control entry for the presentation file module is evaluated to determine if it can be specified in combination with the specification of the SYMBOLIC DESTINATION clause. If the clause cannot be specified, it becomes invalid. When an invalid clause is specified, neither the object file nor the executable file are generated.

## JMN2049I-S

**Data-name '@2@' of the @1@ clause is not unique. The @1@ clause is ignored.**

### Parameter Explanation

@1@ : PADDING CHARACTER, NOMINAL KEY, ACTUAL KEY, RELATIVE KEY, SYMBOLIC KEY, FORMAT, GROUP, PADDING CHARACTER, NOMINAL KEY, ACTUAL KEY, RELATIVE KEY, SYMBOLIC KEY, FORMAT, GROUP, DESTINATION-1, DESTINATION-2, DESTINATION-3, SELECTED FUNCTION, UNIT CONTROL, MESSAGE MODE, END KEY, SESSION CONTROL, PROCESSING CONTROL, MESSAGE CLASS, PASSWORD, MESSAGE OWNER, MESSAGE CODE, PROCESING TIME, MESSAGE SEQUENCE, DESTINATION CONTROL, FORMAT CONTROL, PROCESSING MODE, SYMBOLIC DESTINATION, FILE STATUS, APPLY REORG-CRITERIA, CONTROL AREA, TRACK-AREA, CURSOR or CRT STATUS.

@2@ : User-defined word which causes error.

## Example

```
[P2049.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2049.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007             ORGANIZATION IS SEQUENTIAL
000008             FILE STATUS IS WFS1.
000009 DATA             DIVISION.
000010 FILE              SECTION.
000011     FD SQFILE1.
000012     01 SQF1REC.
000013     02             PIC X(80).
000014 WORKING-STORAGE SECTION.
000015     01 WFS1        PIC X(2).
000016     01 WFS1        PIC X(2).
```



```
000017 PROCEDURE      DIVISION.
000018 END PROGRAM    P2049.
```

P2049.cob 8: JMN2049I-S Data-name 'WFS1' of the FILE STATUS clause is not unique. The FILE STATUS clause is ignored.

## JMN2050I-S

**Data-name '@2@' of the @1@ clause is undefined. The @1@ clause is ignored.**

### Parameter Explanation

@1@ : PPADDING CHARACTER, NOMINAL KEY, ACTUAL KEY, RELATIVE KEY, SYMBOLIC KEY, FORMAT, GROUP, PADDING CHARACTER, NOMINAL KEY, ACTUAL KEY, RELATIVE KEY, SYMBOLIC KEY, FORMAT, GROUP, DESTINATION-1, DESTINATION-2, DESTINATION-3, SELECTED FUNCTION, UNIT CONTROL, MESSAGE MODE, END KEY, SESSION CONTROL, PROCESSING CONTROL, MESSAGE CLASS, PASSWORD, MESSAGE OWNER, MESSAGE CODE, PROCESING TIME, MESSAGE SEQUENCE, DESTINATION CONTROL, FORMAT CONTROL, PROCESSING MODE, SYMBOLIC DESTINATION, FILE STATUS, APPLY REORG-CRITERIA, CONTROL AREA, TRACK-AREA, CURSOR or CRT STATUS.

@2@ : User-defined word which causes error.

### Example

```
[P2050.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2050.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS SEQUENTIAL
000008     FILE STATUS   IS WFS1.
000009 DATA            DIVISION.
000010 FILE             SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC.
000013 02              PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE        DIVISION.
000016 END PROGRAM      P2050.
```

P2050.cob 8: JMN2050I-S Data-name 'WFS1' of the FILE STATUS clause is undefined. The FILE STATUS clause is ignored.

## JMN2051I-S

**'@2@' in the @1@ clause must be a data-name. The @1@ clause is ignored.**

### Parameter Explanation

@1@ : PADDING CHARACTER, NOMINAL KEY, ACTUAL KEY, RELATIVE KEY, SYMBOLIC KEY, FORMAT, GROUP, PADDING CHARACTER, NOMINAL KEY, ACTUAL KEY, RELATIVE KEY, SYMBOLIC KEY, FORMAT, GROUP, DESTINATION-1, DESTINATION-2, DESTINATION-3, SELECTED FUNCTION, UNIT CONTROL, MESSAGE MODE, END KEY, SESSION CONTROL, PROCESSING CONTROL, MESSAGE CLASS, PASSWORD, MESSAGE OWNER, MESSAGE CODE, PROCESING TIME, MESSAGE SEQUENCE, DESTINATION CONTROL, FORMAT CONTROL, PROCESSING MODE, FILE STATUS, APPLY REORG-CRITERIA, CONTROL AREA, TRACK-AREA, CURSOR or CRT STATUS.

@2@ : User-defined word which causes error.

### Example

```
[P2051.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2051.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
```

```

000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS SEQUENTIAL
000008     FILE STATUS IS TFS.
000009 DATA          DIVISION.
000010 FILE           SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC.
000013 02            PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 01 TFS TYPEDEF PIC X(2).
000016 PROCEDURE      DIVISION.
000017 END PROGRAM    P2051.

```

P2051.cob 8: JMN2051I-S 'TFS' in the FILE STATUS clause must be a data-name. The FILE STATUS clause is ignored.

## JMN2065I-W

**OMITTED can only be specified in the LABEL RECORD clause for a sequential file. The LABEL RECORD clause is ignored.**

### Example

```

[P2065.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2065.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT IXFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     RECORD KEY IS WRKY1.
000009 DATA          DIVISION.
000010 FILE           SECTION.
000011 FD IXFILE1
000012     LABEL RECORD OMITTED.
000013 01 IXF1REC.
000014 02 WRKY1       PIC X(2).
000015 02            PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 PROCEDURE      DIVISION.
000018 END PROGRAM    P2065.

```

P2065.cob 12: JMN2065I-W OMITTED can only be specified in the LABEL RECORD clause for a sequential file. The LABEL RECORD clause is ignored.

### Explanation

The LABEL RECORDS clause is obsolete. The COBOL compiler treats the LABEL RECORDS clause as a comment.

## JMN2066I-S

**A LABEL RECORD clause with a data-name can only be specified for a sequential, direct organization, or relative organization file.**

### Example

```

[P2066.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2066.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT RLFILE1 ASSIGN TO SYS001

```

```

000007      ORGANIZATION  IS RELATIVE.
000008 DATA              DIVISION.
000009 FILE               SECTION.
000010 FD RLF1REC
000011      LABEL RECORD LREC.
000012 01 RLF1REC.
000013 02                PIC X(80).
000014 01 LREC.
000015 02                PIC X(8).
000016 WORKING-STORAGE SECTION.
000017 PROCEDURE          DIVISION.
000018 END PROGRAM        P2066.

```

P2066.cob 11: JMN2066I-S A LABEL RECORD clause with a data-name can only be specified for a sequential, direct organization, or relative organization file.

### Explanation

The LABEL RECORDS clause is obsolete. The COBOL compiler treats the LABEL RECORDS clause as a comment.

## JMN2067I-S

**'RECORD CONTAINS 0' can only be specified for a sequential file. The RECORD CONTAINS clause is ignored.**

### Example

```

[P2067.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2067.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT      SECTION.
000005 FILE-CONTROL.
000006      SELECT RLF1REC ASSIGN TO SYS001
000007      ORGANIZATION  IS RELATIVE.
000008 I-O-CONTROL.
000009 DATA              DIVISION.
000010 FILE               SECTION.
000011 FD RLF1REC
000012      RECORD CONTAINS 0.
000013 01 RLF1REC.
000014 02                PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 PROCEDURE          DIVISION.
000017 END PROGRAM        P2067.

```

P2067.cob 12: JMN2067I-S 'RECORD CONTAINS 0' can only be specified for a sequential file. The RECORD CONTAINS clause is ignored.

## JMN2076I-S

**The alphabet-name in the CODE-SET clause is undefined.**

### Example

```

[P2076.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2076.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT      SECTION.
000005 FILE-CONTROL.
000006      SELECT SQFILE1 ASSIGN TO SYS001
000007      ORGANIZATION  IS SEQUENTIAL
000008      FILE STATUS   IS WFS1.

```

```

000009 I-O-CONTROL.
000010 DATA          DIVISION.
000011 FILE           SECTION.
000012 FD SQFILE1
000013     CODE-SET CD1.
000014 01 SQF1REC.
000015 02             PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 01 WFS1        PIC X(2).
000018 PROCEDURE      DIVISION.
000019 END PROGRAM    P2076.

```

P2076.cob 13: JMN2076I-S The alphabet-name in the CODE-SET clause is undefined.

### Explanation

The COBOL compiler treats the CODE-SET clause as a comment.

### JMN2077I-S

**The alphabet-name in the CODE-SET clause must correspond to STANDARD-1, STANDARD-2, NATIVE or function-name.**

### Example

```

[P2077.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2077.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION     SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET CD1 IS "a" THRU "z".
000007 INPUT-OUTPUT     SECTION.
000008 FILE-CONTROL.
000009     SELECT SQFILE1 ASSIGN TO SYS001
000010     ORGANIZATION   IS SEQUENTIAL
000011     FILE STATUS    IS WFS1.
000012 DATA             DIVISION.
000013 FILE               SECTION.
000014 FD SQFILE1
000015     CODE-SET CD1.
000016 01 SQF1REC.
000017 02                 PIC X(80).
000018 WORKING-STORAGE SECTION.
000019 01 WFS1             PIC X(2).
000020 PROCEDURE          DIVISION.
000021 END PROGRAM        P2077.

```

P2077.cob 15: JMN2077I-S The alphabet-name in the CODE-SET clause must correspond to STANDARD-1, STANDARD-2, NATIVE or function-name.

### Explanation

The COBOL compiler treats the CODE-SET clause as a comment.

### JMN2079I-S

**The CODE-SET clause can only be specified for a sequential file.**

### Example

```

[P2079.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2079.
000003 ENVIRONMENT      DIVISION.

```

```

000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET CD1 IS STANDARD-1.
000007 INPUT-OUTPUT SECTION.
000008 FILE-CONTROL.
000009     SELECT IXFILE1 ASSIGN TO CR-SYS001
000010     ORGANIZATION IS INDEXED
000011     RECORD KEY IS RKEY.
000012 DATA DIVISION.
000013 FILE SECTION.
000014 FD IXFILE1
000015     CODE-SET CD1.
000016 01 IXF1REC.
000017 02 RKEY PIC X(8).
000018 02 PIC X(80).
000019 WORKING-STORAGE SECTION.
000020 PROCEDURE DIVISION.
000021 END PROGRAM P2079.

```

P2079.cob 15: JMN2079I-S The CODE-SET clause can only be specified for a sequential file.

### Explanation

The COBOL compiler treats the CODE-SET clause as a comment.

### JMN2080I-S

**The format of the CHARACTER TYPE clause for items subordinate to the group item must have the same format as the CHARACTER TYPE clause for the group item. The format of the CHARACTER TYPE clause specified for group item is used.**

### Example

```

[P2080.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2080.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GRP CHARACTER TYPE MODE-1.
000007 02 PIC N(10).
000008 02 CHARACTER TYPE MODE-2.
000009 03 PIC N(10).
000010 PROCEDURE DIVISION.
000011 END PROGRAM P2080.

```

P2080.cob 8: JMN2080I-S The format of the CHARACTER TYPE clause for items subordinate to the group item must have the same format as the CHARACTER TYPE clause for the group item. The format of the CHARACTER TYPE clause specified for group item is used.

### Explanation

When CHARACTER TYPE clause with MODE-1, MODE-2, MODE-3 or the mnemonic-name is specified for the group and the group's subordinate items, the specification of the CHARACTER TYPE clause must be the same for the group and all subordinate items.

The CHARACTER TYPE clause of the subordinate item is assumed to be valid, but neither the object file nor the executable file is generated.

### JMN2081I-S

**The mnemonic-name in the CHARACTER TYPE clause is undefined or multi-defined, or the mnemonic-name is not related to the function-name HSC, F0202, H0202, F0102, or F0201. The mnemonic-name is ignored.**

## Example

```
[P2081.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2081.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     YX-7P IS PH2.
000007 DATA           DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 GRP.
000010  02 A1           PIC X(5).
000011  02 N1           PIC N(5)
000012           CHARACTER TYPE MODE-1 BY PH1.
000013  02 A2           PIC X(5).
000014  02 A2           PIC N(5)
000015           CHARACTER TYPE MODE-1 BY PH2.
000016 PROCEDURE       DIVISION.
000017 END PROGRAM     P2081.
```

P2081.cob 12: JMN2081I-S The mnemonic-name in the CHARACTER TYPE clause is undefined or multi-defined, or the mnemonic-name is not related to the function-name HSC, F0202, H0202, F0102, or F0201. The mnemonic-name is ignored.

P2081.cob 15: JMN2081I-S The mnemonic-name in the CHARACTER TYPE clause is undefined or multi-defined, or the mnemonic-name is not related to the function-name HSC, F0202, H0202, F0102, or F0201. The mnemonic-name is ignored.

## Explanation

The mnemonic-name of the CHARACTER TYPE clause must be associated with the function-name in the SPECIAL-NAMES paragraph of the ENVIRONMENT DIVISION. The function-name must be HSC, F0202, H0202, F0102 or F0201.

## JMN2082I-S

**The mnemonic-name of the CHARACTER TYPE clause with MODE-3 must be related to F0202, F0102, or F0201.**

## Example

```
[P2082.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2082.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     H0202 IS PH1
000007     F0102 IS PH2.
000008 DATA           DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 GRP.
000011  02 A1           PIC X(5).
000012  02 N1           PIC N(5)
000013           CHARACTER TYPE MODE-3 BY PH1.
000014  02 A2           PIC X(5).
000015  02 A2           PIC N(5)
000016           CHARACTER TYPE MODE-3 BY PH2.
000017 PROCEDURE       DIVISION.
000018 END PROGRAM     P2082.
```

P2082.cob 13: JMN2082I-S The mnemonic-name of the CHARACTER TYPE clause with MODE-3 must be related to F0202, F0102, or F0201.

## Explanation

The mnemonic-name of the CHARACTER TYPE clause with MODE-3 must be the function-name F0202, F0201 or F0201. The mnemonic-name is associated with the function-name in the SPECIAL-NAMES paragraph of the ENVIRONMENT DIVISION.

## JMN2083I-S

**The file-name '@2@' in the @1@ clause is undefined or multi-defined.**

### Parameter Explanation

@1@ : SAME, MULTIPLE FILE TAPE or APPLY.

@2@ : User-defined word which causes error.

### Example

```
[P2083.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2083.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS SEQUENTIAL
000008     FILE STATUS  IS WFS1.
000009 I-O-CONTROL.
000010     SAME AREA SQFILE1 SQFILE2.
000011 DATA           DIVISION.
000012 FILE            SECTION.
000013 FD SQFILE1.
000014 01 SQF1REC.
000015 02             PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 01 WFS1        PIC X(2).
000018 PROCEDURE      DIVISION.
000019 END PROGRAM     P2083.
```

P2083.cob 10: JMN2083I-S The file-name 'SQFILE2' in the SAME clause is undefined or multi-defined.

## JMN2084I-S

**The name '@2@' of the @1@ clause must be the file-name. That specification is ignored.**

### Parameter Explanation

@1@ : SAME, MULTIPLE FILE TAPE or APPLY

@2@ : User-defined word which causes error.

### Example

```
[P2084.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2084.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS SEQUENTIAL
000008     FILE STATUS  IS WFS1.
000009 I-O-CONTROL.
000010     SAME AREA SQFILE1 SQF1REC.
000011 DATA           DIVISION.
000012 FILE            SECTION.
000013 FD SQFILE1.
```

```

000014 01 SQF1REC.
000015 02          PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 01 WFS1     PIC X(2).
000018 PROCEDURE   DIVISION.
000019 END PROGRAM P2084.

```

P2084.cob 10: JMN2084I-S The name 'SQF1REC' of the SAME clause must be the file-name. That specification is ignored.

## JMN2085I-S

**File-name '@2@' must only be specified once in the @1@ clause of that format. The file-name is ignored.**

### Parameter Explanation

@1@ : SAME, MULTIPLE FILE TAPE or APPLY.

@2@ : File name which causes error.

### Example

```

[P2085.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2085.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS SEQUENTIAL
000008     FILE STATUS  IS WFS1.
000009 I-O-CONTROL.
000010     SAME AREA SQFILE1 SQFILE1.
000011 DATA          DIVISION.
000012 FILE            SECTION.
000013 FD SQFILE1.
000014 01 SQF1REC.
000015 02          PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 01 WFS1     PIC X(2).
000018 PROCEDURE   DIVISION.
000019 END PROGRAM   P2085.

```

P2085.cob 10: JMN2085I-S File-name 'SQFILE1' must only be specified once in the SAME clause of that format. The file-name is ignored.

## JMN2097I-W

**A signed numeric literal cannot be specified in the VALUE clause of a condition-name related to a conditional variable with an unsigned numeric literal. The unsigned numeric literal is assumed.**

### Example

```

[P2097.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2097.
000003 ENVIRONMENT     DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WVAR        PIC 9(2).
000007 88 ZOK       VALUE 10.
000008 88 ZNG       VALUE -10.
000009 PROCEDURE   DIVISION.
000010 END PROGRAM   P2097.

```



P2097.cob 8: JMN2097I-W A signed numeric literal cannot be specified in the VALUE clause of a condition-name related to a conditional variable with an unsigned numeric literal. The unsigned numeric literal is assumed.

### Explanation

If a conditional variable is an unsigned numeric item, the value specified in the VALUE clause of the condition-name data description entry (level-number 88) must be an unsigned numeric literal.

The sign becomes invalid when a signed numeric literal is specified. The unsigned numeric literal is used as the value of the conditional variable.

## JMN2098I-S

**The Boolean literal or figurative constant 'ZERO' must be specified in the VALUE clause of the condition-name related to the Boolean item. The figurative constant ZERO is assumed.**

### Example

```
[P2098.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2098.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WVAR          PIC 1(2).
000007 88 ZOK1          VALUE B"00".
000008 88 ZOK2          VALUE ZERO.
000009 88 ZNG           VALUE 10.
000010 PROCEDURE       DIVISION.
000011 END PROGRAM     P2098.
```

P2098.cob 9: JMN2098I-S The Boolean literal or figurative constant 'ZERO' must be specified in the VALUE clause of the condition-name related to the Boolean item. The figurative constant ZERO is assumed.

### Explanation

If a conditional variable is a Boolean item, the value that can be specified for the VALUE clause of the condition-name data description entry (level-number 88) must be a Boolean literal or a figurative constant ZERO. Values other than these are invalid.

The figurative constant ZERO is assumed, but neither the object file nor the executable file are generated.

## JMN2099I-S

**In the numeric literal of the VALUE clause, the character position corresponding to the picture character 'P' of the conditional variable must be '0'. The figurative constant ZERO is assumed.**

### Example

```
[P2099.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2099.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WVAR          PIC 999PP.
000007 88 ZOK          VALUE 12300.
000008 88 ZNG          VALUE 123.
000009 PROCEDURE       DIVISION.
000010 END PROGRAM     P2099.
```

P2099.cob 8: JMN2099I-S In the numeric literal of the VALUE clause, the character position corresponding to the picture character 'P' of the conditional variable must be '0'. The figurative constant ZERO is assumed.

## Explanation

A "P" indicates an assumed decimal scaling position. A "P" may appear in the leftmost or rightmost digit position of a PICTURE clause. If "P" is specified in the leftmost position of a PICTURE clause, the decimal point is assumed to be at the leftmost position of the PICTURE. If "P" is written at the rightmost position of a PICTURE clause, the decimal point is assumed to be at the rightmost position of the PICTURE.

When the decimal point position in the PICTURE character-string of the conditional variable is aligned with the decimal point position in the value specified for VALUE clause of the condition-name data description entry (level-number 88), the numeric character at the position of character "P" should be "0".

The value is assumed to be zero at the position of "P", but neither the object file nor the executable file are generated.

## JMN2100I-W

**The length of the literal in the VALUE clause for the condition-name must not exceed the item length of the condition variable. Excess characters at the right end of the specified literal are discarded.**

### Example

```
[P2100.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2100.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 D1          PIC X(2).
000007 88 CD1        VALUE "ABC".
000008 PROCEDURE      DIVISION.
000009 END PROGRAM     P2100.
```

P2100.cob 7: JMN2100I-W The length of the literal in the VALUE clause for the condition-name must not exceed the item length of the condition variable. Excess characters at the right end of the specified literal are discarded.

## Explanation

The constant length specified by the VALUE clause of the condition-name description entry (level-number 88) is longer than the item length of the conditional variable. The constant for the length of the conditional variable is considered to be a value of the condition-name, and excess characters are discarded.

## JMN2101I-S

**Nonnumeric literal, figurative constant or symbolic-character must be specified in VALUE clause of condition-name for conditional variable of alphabetic, alphanumeric, alphanumeric edited, numeric edited, or group item. Figurative constant 'SPACE' assumed.**

### Example

```
[P2101.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2101.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 D1          PIC X(10).
000007 88 CD1        VALUE SC1.
000008 PROCEDURE      DIVISION.
000009 END PROGRAM     P2101.
```

P2101.cob 7: JMN2101I-S Nonnumeric literal, figurative constant or symbolic-character must be specified in VALUE clause of condition-name for conditional variable of alphabetic, alphanumeric, alphanumeric edited, numeric edited, or group item. Figurative constant 'SPACE' assumed.

## Explanation

This diagnostic message is output when items specified for the VALUE clause are either national literal or an item name.

### JMN2102I-S

**The figurative constant ZERO cannot be specified in the VALUE clause of the condition-name for the conditional variable of the alphabetic item. The figurative constant SPACE is assumed.**

#### Example

```
[P2102.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2102.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 D1          PIC X(10).
000007 88 CD1         VALUE ZERO.
000008 01 D2          PIC A(10).
000009 88 CD2         VALUE ZERO.
000010 PROCEDURE      DIVISION.
000011 END PROGRAM    P2102.
```

P2102.cob 9: JMN2102I-S The figurative constant ZERO cannot be specified in the VALUE clause of the condition-name for the conditional variable of the alphabetic item. The figurative constant SPACE is assumed.

## Explanation

If the conditional variable is an alphabetic item, the figurative constant ZERO must not be specified for the VALUE clause of the condition-name description entry (level-number 88).

The figurative constant ZERO is assumed, but neither the object file nor the executable file is generated.

### JMN2103I-S

**The numeric literal or figurative constant ZERO must be specified in the VALUE clause of the condition-name for the conditional variable of the numeric item. The figurative constant ZERO is assumed.**

#### Example

```
[P2103.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2103.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 D1          PIC 9(10).
000007 88 CD1         VALUE "A".
000008 PROCEDURE      DIVISION.
000009 END PROGRAM    P2103.
```

P2103.cob 7: JMN2103I-S The numeric literal or figurative constant ZERO must be specified in the VALUE clause of the condition-name for the conditional variable of the numeric item. The figurative constant ZERO is assumed.

## Explanation

If the conditional variable is a numeric item, the value specified for the VALUE clause of the condition-name data description entry (level-number 88) must be a numeric literal or a figurative constant ZERO. Values other than these are invalid.

The figurative constant ZERO is assumed, but neither the object file nor the executable file are generated.

### JMN2104I-W

---

**A Boolean literal cannot be specified in the VALUE clause of the condition-name for the conditional variable of an alphabetic, alphanumeric, alphanumeric indexed, or group item. Each Boolean character is assumed to be 1 bit, and is stored left-aligned.**

**Example**

```
[P2104.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2104.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 D1           PIC X(1).
000007 88 CD1          VALUE "1" .
000008 88 CD2          VALUE B"10101010" .
000009 PROCEDURE       DIVISION.
000010 END PROGRAM     P2104.
```

P2104.cob 8: JMN2104I-W A Boolean literal cannot be specified in the VALUE clause of the condition-name for the conditional variable of an alphabetic, alphanumeric, alphanumeric indexed, or group item. Each Boolean character is assumed to be 1 bit, and is stored left-aligned.

**Explanation**

When the conditional variable is an alphabetic, an alphanumeric, an alphanumeric edited data or a group item, if a Boolean literal is specified for the VALUE clause of the condition-name description entry (level-number 88), Boolean characters ("0" or "1") are assumed to be 1 bit. The value is stored left justified and padded with spaces.

**JMN2105I-W**

---

**The length of the Boolean literal in the VALUE clause of the condition-name must be a multiple of 8. The Boolean character '0' is added on the right of the literal until its length is a multiple of 8.**

**Example**

```
[P2105.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2105.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 D1           PIC X(1).
000007 88 CD1          VALUE "1" .
000008 88 CD2          VALUE B"1" .
000009 PROCEDURE       DIVISION.
000010 END PROGRAM     P2105.
```

P2105.cob 8: JMN2105I-W The length of the Boolean literal in the VALUE clause of the condition-name must be a multiple of 8. The Boolean character '0' is added on the right of the literal until its length is a multiple of 8.

**Explanation**

When a Boolean literal is specified for the VALUE clause of the condition-name description entry (level-number 88) when the conditional variable is an alphabetic, an alphanumeric, an alphanumeric edited, or a group item, one Boolean character ('0' or '1') is assumed to occupy the first bit. Boolean characters must be multiples of eight.

If the number of Boolean characters is not a multiple of eight, Boolean character '0's are inserted to the right of the Boolean literal to make it a multiple of eight.

**JMN2106I-S**

---

**The value of the literal following 'THROUGH' in the VALUE clause of the condition-name must be greater than the value of the literal preceding 'THROUGH'.**

## Example

```
[P2106.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2106.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 D1           PIC X.
000007 88 CD1         VALUE "A" THRU "Z".
000008 88 CD2         VALUE "z" THRU "a".
000009 PROCEDURE      DIVISION.
000010 END PROGRAM     P2106.
```

P2106.cob 8: JMN2106I-S The value of the literal following 'THROUGH' in the VALUE clause of the condition-name must be greater than the value of the literal preceding 'THROUGH'.

## Explanation

In describing the range of the VALUE, the value listed before the THRU (or THROUGH) must be smaller than the value listed after the THRU.

## JMN2107I-S

**A national literal or figurative constants 'SPACE', 'HIGH-VALUE', or 'LOW-VALUE' must be specified in the VALUE clause of the condition-name for the conditional variable of the national item. The figurative constant 'SPACE' is assumed.**

## Example

```
[P2107.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2107.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 D1           PIC N(1).
000007 88 CD1         VALUE N"あ".
000008 88 CD2         VALUE "い".
000009 PROCEDURE      DIVISION.
000010 END PROGRAM     P2107.
```

P2107.cob 8: JMN2107I-S A national literal or figurative constants 'SPACE', 'HIGH-VALUE', or 'LOW-VALUE' must be specified in the VALUE clause of the condition-name for the conditional variable of the national item. The figurative constant 'SPACE' is assumed.

## Explanation

If a conditional variable is a national item, the value in the VALUE clause of the condition-name data description entry (level-number 88) must be a national literal, a figurative constant SPACE, HIGH-VALUE or LOW-VALUE. Values other than these are invalid.

A figurative constant SPACE is assumed, but neither the object file nor the executable file are generated.

## JMN2108I-S

**A Boolean literal cannot be specified in the VALUE clause of the condition-name with 'THROUGH'.**

## Example

```
[P2108.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2108.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
```

```

000006 01 D1          PIC 1(4).
000007 88 CD1        VALUE B"0000".
000008 88 CD2        VALUE B"1111".
000009 88 CD3        VALUE B"0000" THRU B"1111".
000010 PROCEDURE     DIVISION.
000011 END PROGRAM   P2108.

```

P2108.cob 9: JMN2108I-S A Boolean literal cannot be specified in the VALUE clause of the condition-name with 'THROUGH'.

## JMN2109I-S

**'RECORD CONTAINS 0' cannot be specified for the file description entry of the file specified in the SAME RECORD AREA clause. The RECORD clause is ignored.**

### Example

```

[P2109.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2109.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT SQFILE2 ASSIGN TO SYS001.
000008 I-O-CONTROL.
000009     SAME RECORD AREA SQFILE1 SQFILE2.
000010 DATA            DIVISION.
000011 FILE              SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02                PIC X(80).
000015 FD SQFILE2 RECORD CONTAINS 0.
000016 01 SQF2REC.
000017 02                PIC X(80).
000018 WORKING-STORAGE SECTION.
000019 01 WFS1           PIC X(2).
000020 PROCEDURE        DIVISION.
000021 END PROGRAM       P2109.

```

P2109.cob 15: JMN2109I-S 'RECORD CONTAINS 0' cannot be specified for the file description entry of the file specified in the SAME RECORD AREA clause. The RECORD clause is ignored.

## JMN2111I-W

**'RECORD CONTAINS 0' cannot be specified for a print file. The RECORD clause is ignored.**

### Example

```

[P2111.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2111.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE              SECTION.
000010 FD SQFILE1
000011     RECORD CONTAINS 0.
000012 01 SQF1REC.
000013 02                PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 01 WFS1           PIC X(2).

```

```

000016 PROCEDURE      DIVISION.
000017     WRITE SQF1REC AFTER ADVANCING 1.
000018 END PROGRAM     P2111.

```

P2111.cob 10: JMN2111I-W 'RECORD CONTAINS 0' cannot be specified for a print file. The RECORD clause is ignored.

## JMN2112I-S

**The integer (maximum number of character positions) in the RECORD clause must be equal to or greater than the record length. The RECORD clause is ignored.**

### Example

```

[P2112.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2112.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1
000011     RECORD CONTAINS 40.
000012 01 SQF1REC.
000013 02              PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 01 WFS1          PIC X(2).
000016 PROCEDURE      DIVISION.
000017 END PROGRAM     P2112.

```

P2112.cob 10: JMN2112I-S The integer (maximum number of character positions) in the RECORD clause must be equal to or greater than the record length. The RECORD clause is ignored.

### Explanation

The RECORD clause specifies the size of records in a file. The size of the record description entry of the file associated with the RECORD clause must not exceed the maximum record size specified by the RECORD clause.

## JMN2113I-S

**The integer (minimum number of character positions) in the RECORD clause must be equal to or less than the record length. The RECORD clause is ignored.**

### Example

```

[P2113.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2113.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1
000011     RECORD VARYING FROM 81 TO 160.
000012 01 SQF1REC.
000013 02              PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 01 WFS1          PIC X(2).

```

```
000016 PROCEDURE      DIVISION.
000017 END PROGRAM    P2113.
```

P2113.cob 10: JMN2113I-S The integer (minimum number of character positions) in the RECORD clause must be equal to or less than the record length. The RECORD clause is ignored.

#### Explanation

The RECORD clause specifies the size of records in a file. The size of the record description entry of the file associated with the RECORD clause must not be less than the minimum record size specified by the RECORD clause.

### JMN2116I-S

**A level 01, 77, 88, or 66 item cannot be specified in the RENAMES clause.**

#### Example

```
[P2116.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2116.
000003 ENVIRONMENT    DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 D1          PIC X(20).
000007 66 R1 RENAMES  D1.
000008 PROCEDURE      DIVISION.
000009 END PROGRAM    P2116.
```

P2116.cob 7: JMN2116I-S A level 01, 77, 88, or 66 item cannot be specified in the RENAMES clause.

#### Explanation

The RENAMES clause permits alternative, possibly overlapping groupings of elementary items. The elementary items being renamed cannot have the same name, and their level-numbers cannot be 01, 77, 88, or 66.

### JMN2117I-S

**The data-names in the RENAMES clause must be different from each other.**

#### Example

```
[P2117.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2117.
000003 ENVIRONMENT    DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GR1.
000007 02 GR2.
000008 03 E1          PIC X(5).
000009 66 R1 RENAMES  E1 THRU E1 OF GR2.
000010 PROCEDURE      DIVISION.
000011 END PROGRAM    P2117.
```

P2117.cob 9: JMN2117I-S The data-names in the RENAMES clause must be different from each other.

#### Explanation

The RENAMES clause permits alternative, possibly overlapping groupings of elementary items. The elementary items being renamed cannot have the same name.

### JMN2118I-S

**The data-name in the RENAMES clause or THROUGH phrase must be defined in the record description entry immediately before that clause.**



## Example

```
[P2118.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2118.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GR1.
000007    02 E1        PIC X(5).
000008 01 GR2.
000009    02 E1        PIC X(5).
000010 66 R1 RENAMES E1 OF GR1.
000011 PROCEDURE      DIVISION.
000012 END PROGRAM    P2118.
```

P2118.cob 10: JMN2118I-S The data-name in the RENAMES clause or THROUGH phrase must be defined in the record description entry immediately before that clause.

## Explanation

RENAMES entries must follow the last data description entry of a record description entry.

## JMN2119I-S

**The data-name in the RENAMES clause or THROUGH phrase cannot have an OCCURS clause, and cannot be subordinate to a data item with an OCCURS clause.**

## Example

```
[P2119.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2119.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GR1.
000007    02 OCC1      OCCURS 10.
000008    03 E1        PIC X(2).
000009 66 R1 RENAMES OCC1.
000010 PROCEDURE      DIVISION.
000011 END PROGRAM    P2119.
```

P2119.cob 9: JMN2119I-S The data-name in the RENAMES clause or THROUGH phrase cannot have an OCCURS clause, and cannot be subordinate to a data item with an OCCURS clause.

## JMN2120I-S

**The beginning of the THROUGH phrase data-name area must not be to the left of the beginning of the RENAMES clause data-name area.**

## Example

```
[P2120.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2120.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GRP.
000007    02 E1        PIC X(5).
000008    02 E2        PIC X(5).
000009 66 R1 RENAMES E2 THRU E1.
```

```
000010 PROCEDURE      DIVISION.
000011 END PROGRAM    P2120.
```

P2120.cob 9: JMN2120I-S The beginning of the THROUGH phrase data-name area must not be to the left of the beginning of the RENAMES clause data-name area.

#### Explanation

When THROUGH(THRU) phrase is specified, the RENAMES entry is assumed to be a group item. The beginning of the THRU phrase data-name area must not be to the left of the beginning of the RENAMES data-name area.

#### JMN2121I-S

**A variable occurrence data item must not appear between the data-name in the RENAMES clause and the data-name in the THROUGH phrase.**

#### Example

```
[P2121.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2121.
000003 ENVIRONMENT    DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GR1.
000007 02 E1          PIC S9(4) BINARY.
000008 02 E2          OCCURS 10 DEPENDING ON E1.
000009 03            PIC X(2).
000010 02 E3          PIC X(2).
000011 66 R1 RENAMES E1 THRU E3.
000012 PROCEDURE      DIVISION.
000013 END PROGRAM    P2121.
```

P2121.cob 11: JMN2121I-S A variable occurrence data item must not appear between the data-name in the RENAMES clause and the data-name in the THROUGH phrase.

#### JMN2122I-S

**The data-name in the RENAMES clause with a THROUGH phrase must not be an internal Boolean item.**

#### Example

```
[P2122.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2122.
000003 ENVIRONMENT    DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GR1.
000007 02 E1          PIC 1(3) BIT.
000008 02 E2          PIC 1(3) BIT.
000009 66 R1 RENAMES E1 THRU E2.
000010 PROCEDURE      DIVISION.
000011 END PROGRAM    P2122.
```

P2122.cob 9: JMN2122I-S The data-name in the RENAMES clause with a THROUGH phrase must not be an internal Boolean item.

#### JMN2123I-S

**The character-string in the PICTURE clause conflicts with the USAGE clause of its group item. The character-string in the PICTURE clause is assumed to be valid.**

## Example

```
[P2123.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2123.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GR1 USAGE  BINARY.
000007 02 E1         PIC X(4).
000008 PROCEDURE      DIVISION.
000009 END PROGRAM     P2123.
```

P2123.cob 7: JMN2123I-S The character-string in the PICTURE clause conflicts with the USAGE clause of its group item. The character-string in the PICTURE clause is assumed to be valid.

## Explanation

The PICTURE clause specifies the category of an elementary item, and the USAGE clause specifies the usage of a data item. When the USAGE clause is specified for a group item, the specification is applied to each subordinate item, even though the USAGE clause is not specified explicitly for each item.

## JMN2124I-S

---

**The PICTURE clause cannot be specified for a group item.**

## Example

```
[P2124.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2124.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GR1         PIC X(20).
000007 02 E1         PIC X(10).
000008 02 E2         PIC X(10).
000009 PROCEDURE      DIVISION.
000010 END PROGRAM     P2124.
```

P2124.cob 6: JMN2124I-S The PICTURE clause cannot be specified for a group item.

## Explanation

The PICTURE clause specifies the category of the elementary item. The PICTURE clause cannot be specified for a group item.

## JMN2126I-W

---

**The CHARACTER TYPE clause is invalid for group items that do not contain a national item.**

## Example

```
[P2126.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2126.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GR1 CHARACTER TYPE MODE-1.
000007 02 E1         PIC X(20).
000008 PROCEDURE      DIVISION.
000009 END PROGRAM     P2126.
```

P2126.cob 6: JMN2126I-W The CHARACTER TYPE clause is invalid for group items that do not contain a national item.

## Explanation

A CHARACTER TYPE clause with MODE-1, MODE-2, MODE-3 or a mnemonic-name specifies the format of characters when printing a national item or a national edited item. The CHARACTER TYPE clause is invalid for group items that do not contain national or national edited items.

## JMN2127I-S

**The record description entry containing an item with a character type cannot have an item with the OCCURS DEPENDING ON phrase.**

### Example

```
[P2127.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2127.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GR1 CHARACTER TYPE MODE-1.
000007    02 E1         PIC 9(4).
000008    02 E2         PIC N(10).
000009    02 E3         PIC X(1) OCCURS 10 DEPENDING ON E1.
000010 PROCEDURE       DIVISION.
000011 END PROGRAM     P2127.
```

P2127.cob 6: JMN2127I-S The record description entry containing an item with a character type cannot have an item with the OCCURS DEPENDING ON phrase.

## JMN2128I-S

**The level 01 item must not exceed @1@ bytes in length.**

### Parameter Explanation

@1@ : 2147483647

### Example

```
[P2128.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2128.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WVDA.
000007    02 WLENG      PIC S9(9) BINARY.
000008    02 WBUF       PIC X(2147483646).
000009 PROCEDURE       DIVISION.
000010 END PROGRAM     P2128.
```

P2128.cob 6: JMN2128I-S The level 01 item must not exceed 2147483647 bytes in length.

## Explanation

The length of the level 01 item is restricted by the COBOL processing system.

## JMN2131I-S

**File-name '@1@' in the MULTIPLE FILE TAPE clause must be a sequential file.**

### Parameter Explanation

@1@ : The file name that causes the error.

## Example

```
[P2131.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2131.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT RLFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS RELATIVE.
000008 I-O-CONTROL.
000009     MULTIPLE FILE TAPE CONTAINS RLFILE1.
000010 DATA            DIVISION.
000011 FILE             SECTION.
000012 FD RLFILE1.
000013 01 RLF1REC.
000014 02              PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 PROCEDURE        DIVISION.
000017 END PROGRAM       P2131.
```

P2131.cob 9: JMN2131I-S File-name 'RLFILE1' in the MULTIPLE FILE TAPE clause must be a sequential file.

## Explanation

The MULTIPLE FILE TAPE clause is obsolete. The COBOL compiler treats the MULTIPLE FILE TAPE clause as a comment.

## JMN2132I-S

**If a file in the SAME AREA clause is specified in the SAME RECORD AREA clause, all other file-names in that SAME AREA clause must be specified in that SAME RECORD AREA clause.**

## Example

```
[P2132.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2132.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT SQFILE2 ASSIGN TO SYS002.
000008     SELECT SQFILE3 ASSIGN TO SYS003.
000009 I-O-CONTROL.
000010     SAME AREA SQFILE1 SQFILE2
000011     SAME RECORD AREA SQFILE1 SQFILE3.
000012 DATA            DIVISION.
000013 FILE             SECTION.
000014 FD SQFILE1.
000015 01 SQF1REC.
000016 02              PIC X(80).
000017 FD SQFILE2.
000018 01 SQF2REC.
000019 02              PIC X(80).
000020 FD SQFILE3.
000021 01 SQF3REC.
000022 02              PIC X(80).
000023 WORKING-STORAGE SECTION.
000024 01 WFS1          PIC X(2).
000025 PROCEDURE        DIVISION.
000026 END PROGRAM       P2132.
```

P2132.cob 10: JMN2132I-S If a file in the SAME AREA clause is specified in the SAME RECORD AREA clause, all other file-names in that SAME AREA clause must be specified in that SAME RECORD AREA clause.

## JMN2134I-S

**The BLANK WHEN ZERO clause cannot be specified for a numeric edited item with an asterisk. The BLANK WHEN ZERO clause is ignored.**

### Example

```
[P2134.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2134.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNE1         PIC ZZ99 BLANK WHEN ZERO. *> OK
000007 01 WNE2         PIC **99 BLANK WHEN ZERO. *> ERROR
000008 PROCEDURE       DIVISION.
000009 END PROGRAM     P2134.
```

P2134.cob 7: JMN2134I-S The BLANK WHEN ZERO clause cannot be specified for a numeric edited item with an asterisk. The BLANK WHEN ZERO clause is ignored.

### Explanation

The BLANK WHEN ZERO clause replaces zeros in a data item with spaces when the data item contains all zeros. An "\*" (asterisk) of the PICTURE character-string indicates that a leading zero string (the upper digits of effective numeric characters) is to be replaced with "\*". It is not valid to specify these at the same time.

When both are specified, an asterisk(\*), the zero suppression symbol, is considered to be effective. Neither the object file nor the executable file is generated.

## JMN2135I-S

**The BLANK WHEN ZERO clause can only be specified for an external decimal item or a numeric edited item.**

### Example

```
[P2135.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2135.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNE1         PIC 9(9) DISPLAY
000007                 BLANK WHEN ZERO. *> OK
000008 01 WNE2         PIC 9(9) BINARY
000009                 BLANK WHEN ZERO. *> ERROR
000010 PROCEDURE       DIVISION.
000011 END PROGRAM     P2135.
```

P2135.cob 9: JMN2135I-S The BLANK WHEN ZERO clause can only be specified for an external decimal item or a numeric edited item.

### Explanation

The BLANK WHEN ZERO clause replaces zeros in a data item with spaces when the data item contains all zeros. The BLANK WHEN ZERO clause cannot be specified for the data item when the usage is not display.

If the BLANK WHEN ZERO clause is specified in a numeric data item, the numeric data item is assumed to be numeric edited.

## JMN2136I-W

**The integer in the RESERVE clause must be specified for a sequential (organization VS or AS), relative, or indexed file. The RESERVE clause is ignored.**

## Example

```
[P2136.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2136.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO VS-SYS001
000007     RESERVE NO AREA.
000008 I-O-CONTROL.
000009 DATA            DIVISION.
000010 FILE             SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC.
000013 02              PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE        DIVISION.
000016 END PROGRAM      P2136.
```

P2136.cob 7: JMN2136I-W The integer in the RESERVE clause must be specified for a sequential (organization VS or AS), relative, or indexed file. The RESERVE clause is ignored.

## Explanation

The RESERVE AREA clause is specific to the OSIV-series.

## JMN2138I-W

---

**The integer in the RESERVE clause must not equal 0 or exceed 255. The RESERVE clause is ignored.**

## Example

```
[P2138.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2138.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     RESERVE 256 AREA.
000008 I-O-CONTROL.
000009 DATA            DIVISION.
000010 FILE             SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC.
000013 02              PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE        DIVISION.
000016 END PROGRAM      P2138.
```

P2138.cob 7: JMN2138I-W The integer in the RESERVE clause must not equal 0 or exceed 255. The RESERVE clause is ignored.

## Explanation

The RESERVE AREA clause is specific to the OSIV-series.

## JMN2143I-S

---

**Data-name in PADDING CHARACTER clause must not be defined in FILE SECTION and REPORT SECTION.**

## Example

```
[P2143.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2143.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT SQFILE2 ASSIGN TO SYS001
000008     PADDING CHARACTER IS WPD.
000009 I-O-CONTROL.
000010 DATA           DIVISION.
000011 FILE             SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02 WPD          PIC X(1).
000015 02              PIC X(80).
000016 FD SQFILE2.
000017 01 SQF2REC.
000018 02              PIC X(80).
000019 WORKING-STORAGE SECTION.
000020 PROCEDURE        DIVISION.
000021 END PROGRAM      P2143.
```

P2143.cob 8: JMN2143I-S Data-name in PADDING CHARACTER clause must not be defined in FILE SECTION and REPORT SECTION.

## Explanation

This compiler treats the PADDING CHARACTER clause as a comment.

## JMN2144I-S

---

**The data-name in the PADDING CHARACTER clause must be an alphanumeric or group item.**

## Example

```
[P2144.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2144.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     PADDING CHARACTER IS WPD.
000008 I-O-CONTROL.
000009 DATA           DIVISION.
000010 FILE             SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC.
000013 02              PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 01 WPD          PIC 9(1).
000016 PROCEDURE        DIVISION.
000017 END PROGRAM      P2144.
```

P2144.cob 7: JMN2144I-S The data-name in the PADDING CHARACTER clause must be an alphanumeric or group item.

## Explanation

This compiler treats the PADDING CHARACTER clause as a comment.

## JMN2145I-S



---

**The data-name in the PADDING CHARACTER clause must be 1 byte in length.**

**Example**

```
[P2145.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2145.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     PADDING CHARACTER IS WPD.
000008 I-O-CONTROL.
000009 DATA            DIVISION.
000010 FILE             SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC.
000013 02              PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 01 WPD          PIC X(2).
000016 PROCEDURE       DIVISION.
000017 END PROGRAM      P2145.
```

P2145.cob 7: JMN2145I-S The data-name in the PADDING CHARACTER clause must be 1 byte in length.

**Explanation**

This compiler treats the PADDING CHARACTER clause as a comment.

**JMN2149I-S**

---

**The data-name in the @1@ clause must be a fixed-length item.**

**Parameter Explanation**

@1@ : TRACK-AREA, CONTROL AREA, ALTERNATE RECORD KEY, RECORD KEY, NOMINAL KEY or APPLY REOROG CRITEREA.

**Example**

```
[P2149.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2149.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IXFILE1 ASSIGN TO SYS001
000007     ORGANIZATION   IS INDEXED
000008     RECORD KEY     IS WRKY1.
000009 I-O-CONTROL.
000010 DATA            DIVISION.
000011 FILE             SECTION.
000012 FD IXFILE1.
000013 01 IXF1REC.
000014 02 WDPND        PIC S9(4).
000015 02 WRKY1.
000016 03              PIC X(1)
000017              OCCURS 10 DEPENDING ON WDPND.
000018 02              PIC X(80).
000019 WORKING-STORAGE SECTION.
000020 PROCEDURE       DIVISION.
000021 END PROGRAM      P2149.
```

P2149.cob 8: JMN2149I-S The data-name in the RECORD KEY clause must be a fixed-length item.

## Explanation

The data item that is specified for a RECORD KEY clause cannot be a variable-length item. See the data description entry that contains the OCCURS clause with DEPENDING phrase in the example above.

### JMN2158I-S

**The data-name in the @1@ clause must be defined in a record of the file.**

#### Parameter Explanation

@1@ : RECORD KEY or ALTERNATE RECORD KEY.

#### Example

```
[P2158.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2158.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IXFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     RECORD KEY    IS WRKY1
000009     FILE STATUS  IS WFS1.
000010 I-O-CONTROL.
000011 DATA           DIVISION.
000012 FILE            SECTION.
000013 FD IXFILE1.
000014 01 IXF1REC.
000015 02              PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 01 WRKY1        PIC X(2).
000018 01 WFS1         PIC X(2).
000019 PROCEDURE      DIVISION.
000020 END PROGRAM      P2158.
```

P2158.cob 8: JMN2158I-S The data-name in the RECORD KEY clause must be defined in a record of the file.

## Explanation

The data-name in the RECORD KEY or ALTERNATE RECORD KEY clause must be defined in a record of the file.

### JMN2159I-S

**The data-name in the @1@ clause must not exceed @2@ bytes in length.**

#### Parameter Explanation

@1@ : RECORD KEY, ALTERNATE RECORD KEY, NOMINAL KEY, PROCESSING CONTROL or MESSAGE CODE.

@2@ : Maximum length of the specifiable data item in this clause.

#### Example

```
[P2159.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2159.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT PRFILE1 ASSIGN TO GS-SYS001
000007     SYMBOLIC DESTINATION IS "DSP"
000008     PROCESSING CONTROL WPCT.
000009 I-O-CONTROL.
000010 DATA           DIVISION.
```

```

000011 FILE          SECTION.
000012 FD PRFILE1 .
000013 01 PRF1REC .
000014 02            PIC X(80) .
000015 WORKING-STORAGE SECTION.
000016 01 WPCT      PIC X(129) .
000017 PROCEDURE    DIVISION.
000018 END PROGRAM   P2159 .

```

P2159.cob 8: JMN2159I-S The data-name in the PROCESSING CONTROL clause must not exceed 128 bytes in length.

## JMN2163I-W

**The data-name of the @1@ clause must be an 8-digit binary item.**

### Parameter Explanation

@1@ : RELATIVE KEY.

### Example

```

[P2163.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2163.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT RLFILE1 ASSIGN TO R-SYS001
000007     RELATIVE KEY  IS RKEY.
000008 I-O-CONTROL.
000009 DATA           DIVISION.
000010 FILE           SECTION.
000011 FD RLFILE1 .
000012 01 RLF1REC .
000013 02            PIC X(80) .
000014 WORKING-STORAGE SECTION.
000015 01 RKEY        PIC X(8) .
000016 PROCEDURE     DIVISION.
000017 END PROGRAM     P2163 .

```

P2163.cob 7: JMN2163I-W The data-name of the RELATIVE KEY clause must be an 8-digit binary item.

### Explanation

Since the data item specified with RELATIVE KEY of the ACCESS MODE clause is used to report the relative record number between the program and the I/O management system, it must be an 8-digit binary item.

## JMN2164I-S

**The figurative constant ZERO cannot be specified in the VALUE clause of an alphabetic item. The figurative constant SPACE is assumed.**

### Example

```

[P2164.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2164.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WAX           PIC A(8) VALUE ZERO.
000007 PROCEDURE     DIVISION.
000008 END PROGRAM     P2164 .

```

P2164.cob 6: JMN2164I-S The figurative constant ZERO cannot be specified in the VALUE clause of an alphabetic item. The figurative constant SPACE is assumed.

### Explanation

The figurative constant ZERO cannot be specified for the VALUE clause of the alphabetic item.

The figurative constant SPACE is assumed to be specified, but neither the object file nor the executable file is generated.

### JMN2165I-S ([Win32])

**The data-name in the RELATIVE KEY clause must be defined in the WORKING-STORAGE, LINKAGE, or FILE SECTION.**

#### Example

```
[P2165.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2165.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT RLFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS RELATIVE
000008     RELATIVE KEY   IS RKEY.
000009 I-O-CONTROL.
000010 DATA            DIVISION.
000011 BASED-STORAGE SECTION.
000012 01 RKEY          PIC 9(2).
000013 FILE            SECTION.
000014 FD RLFILE1.
000015 01 RLF1REC.
000016 02              PIC X(80).
000017 PROCEDURE        DIVISION.
000018 END PROGRAM        P2165.
```

P2165.cob 8: JMN2165I-S The data-name in the RELATIVE KEY clause must be defined in the WORKING-STORAGE, LINKAGE, or FILE SECTION.

### JMN2165I-S ([Winx64])

**The data-name in the RELATIVE KEY clause must be defined in the WORKING-STORAGE, LOCAL-STORAGE, LINKAGE, or FILE SECTION.**

#### Example

```
[P2165.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2165.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT RLFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS RELATIVE
000008     RELATIVE KEY   IS RKEY.
000009 I-O-CONTROL.
000010 DATA            DIVISION.
000011 BASED-STORAGE SECTION.
000012 01 RKEY          PIC 9(2).
000013 FILE            SECTION.
000014 FD RLFILE1.
000015 01 RLF1REC.
000016 02              PIC X(80).
```

```
000017 PROCEDURE      DIVISION.
000018 END PROGRAM    P2165.
```

P2165.cob 8: JMN2165I-S The data-name in the RELATIVE KEY clause must be defined in the WORKING-STORAGE, LOCAL-STORAGE, LINKAGE, or FILE SECTION.

## JMN2166I-S

The data-name in the RELATIVE KEY clause must not be defined in a record of that file.

### Example

```
[P2166.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2166.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT RLFILE1 ASSIGN TO SYS001
000007     ORGANIZATION   IS RELATIVE
000008     RELATIVE KEY   IS RKEY.
000009 I-O-CONTROL.
000010 DATA              DIVISION.
000011 FILE                SECTION.
000012 FD RLFILE1.
000013 01 RLF1REC.
000014 02 RKEY            PIC 9(2).
000015 02                  PIC X(80).
000016 PROCEDURE         DIVISION.
000017 END PROGRAM       P2166.
```

P2166.cob 8: JMN2166I-S The data-name in the RELATIVE KEY clause must not be defined in a record of that file.

### Explanation

The data item specified by RELATIVE KEY of the ACCESS MODE clause should not exist in the record description entry of the file related to the specification of the RELATIVE KEY. A data item in the record description entry of another file can be specified for the RELATIVE KEY.

## JMN2167I-S

The data-name in the RELATIVE KEY clause must be an unsigned integer item without the symbol 'P'.

### Example

```
[P2167.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2167.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT RLFILE1 ASSIGN TO SYS001
000007     ORGANIZATION   IS RELATIVE
000008     RELATIVE KEY   IS RKEY.
000009 I-O-CONTROL.
000010 DATA              DIVISION.
000011 FILE                SECTION.
000012 FD RLFILE1.
000013 01 RLF1REC.
000014 02                  PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 RKEY            PIC P9(2).
000017 PROCEDURE         DIVISION.
000018 END PROGRAM       P2167.
```

P2167.cob 8: JMN2167I-S The data-name in the RELATIVE KEY clause must be an unsigned integer item without the symbol 'P'.

### Explanation

Since the data item specified with RELATIVE KEY of the ACCESS MODE clause is used to report the relative record number between the program and the I/O management system, it must be an unsigned integer item that does not contain the symbol 'P'.

### JMN2173I-S

**Data-name '@1@' in the APPLY SAVED-AREA clause must be defined in the WORKING-STORAGE SECTION. The data-name is ignored.**

### Parameter Explanation

@1@ : Data name which causes the error.

### Example

```
[P2173.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2173.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS SEQUENTIAL.
000008 I-O-CONTROL.
000009     APPLY SAVED-AREA TO WSVAR ON SQFILE1.
000010 DATA           DIVISION.
000011 FILE            SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02              PIC X(80).
000015 LINKAGE         SECTION.
000016 01 WSVAR        PIC X(80).
000017 PROCEDURE       DIVISION.
000018 END PROGRAM      P2173.
```

P2173.cob 9: JMN2173I-S Data-name 'WSVAR' in the APPLY SAVED-AREA clause must be defined in the WORKING-STORAGE SECTION. The data-name is ignored.

### JMN2174I-S

**Data-name '@1@' in the APPLY SAVED-AREA clause must be a level-number 01 or 77 item. The data-name is ignored.**

### Parameter Explanation

@1@ : Data name which causes the error.

### Example

```
[P2174.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2174.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS SEQUENTIAL.
000008 I-O-CONTROL.
000009     APPLY SAVED-AREA TO WSVAR ON SQFILE1.
000010 DATA           DIVISION.
000011 FILE            SECTION.
000012 FD SQFILE1.
```

```

000013 01 SQF1REC.
000014 02          PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01.
000017 02 WSVAR    PIC X(80).
000018 PROCEDURE   DIVISION.
000019 END PROGRAM P2174.

```

P2174.cob 9: JMN2174I-S Data-name 'WSVAR' in the APPLY SAVED-AREA clause must be a level-number 01 or 77 item. The data-name is ignored.

## JMN2175I-S

**Data-name '@1@' in the APPLY SAVED-AREA clause must be a fixed length item. The data-name is ignored.**

### Parameter Explanation

@1@ : Data name which causes the error.

### Example

```

[P2175.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2175.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS SEQUENTIAL.
000008 I-O-CONTROL.
000009     APPLY SAVED-AREA TO WSVAR ON SQFILE1.
000010 DATA            DIVISION.
000011 FILE             SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02              PIC X(80).
000015 LINKAGE         SECTION.
000016 01 WSVAR.
000017 02 WSIZE        PIC S9(4) BINARY.
000018 02              OCCURS 80 DEPENDING ON WSIZE.
000019 03              PIC X.
000020 PROCEDURE      DIVISION.
000021 END PROGRAM     P2175.

```

P2175.cob 9: JMN2175I-S Data-name 'WSVAR' in the APPLY SAVED-AREA clause must be a fixed length item. The data-name is ignored.

## JMN2176I-S

**Data-name '@1@' in the APPLY SAVED-AREA clause must not exceed 32763 bytes in length. The data-name is ignored.**

### Parameter Explanation

@1@ : Data name which causes the error.

### Example

```

[P2176.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2176.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.

```

```

000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION     IS SEQUENTIAL.
000008 I-O-CONTROL.
000009     APPLY SAVED-AREA TO WSVAR ON SQFILE1.
000010 DATA                DIVISION.
000011 FILE                  SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02                    PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WSVAR              PIC X(32764).
000017 PROCEDURE            DIVISION.
000018 END PROGRAM          P2176.

```

P2176.cob 9: JMN2176I-S Data-name 'WSVAR' in the APPLY SAVED-AREA clause must not exceed 32763 bytes in length. The data-name is ignored.

### JMN2177I-S ([Win32])

**The data-name in the RECORD clause must be defined in the WORKING-STORAGE or LINKAGE SECTION. The data-name is ignored.**

#### Example

```

[P2177.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2177.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION     IS SEQUENTIAL.
000008 DATA                DIVISION.
000009 FILE                  SECTION.
000010 FD SQFILE1
000011     RECORD VARYING IN SIZE
000012     DEPENDING ON WRECL.
000013 01 SQF1REC.
000014 02                    PIC X(80).
000015 02 WRECL              PIC 9(4).
000016 PROCEDURE            DIVISION.
000017 END PROGRAM          P2177.

```

P2177.cob 12: JMN2177I-S The data-name in the RECORD clause must be defined in the WORKING-STORAGE or LINKAGE SECTION. The data-name is ignored.

#### Explanation

In the example above, the program and the COBOL processing system sets the number of character positions of the record to the data item specified by DEPENDING ON of the RECORD clause. WRECL is defined in a record in the FILE SECTION, but the system allows it to be defined only in the WORKING-STORAGE or LINKAGE sections.

### JMN2177I-S ([Winx64])

**The data-name in the RECORD clause must be defined in the WORKING-STORAGE, LOCAL-STORAGE or LINKAGE SECTION. The data-name is ignored.**

#### Example

```

[P2177.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2177.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.

```



```

000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS SEQUENTIAL.
000008 DATA          DIVISION.
000009 FILE           SECTION.
000010 FD SQFILE1
000011     RECORD VARYING IN SIZE
000012     DEPENDING ON WRECL.
000013 01 SQF1REC.
000014 02             PIC X(80).
000015 02 WRECL      PIC 9(4).
000016 PROCEDURE     DIVISION.
000017 END PROGRAM   P2177.

```

P2177.cob 12: JMN2177I-S The data-name in the RECORD clause must be defined in the WORKING-STORAGE, LOCAL-STORAGE or LINKAGE SECTION. The data-name is ignored.

### Explanation

In the example above, the program and the COBOL processing system sets the number of character positions of the record to the data item specified by DEPENDING ON of the RECORD clause. WRECL is defined in a record in the FILE SECTION, but the system allows it to be defined only in the WORKING-STORAGE, LINKAGE or LOCAL-STORAGE sections.

## JMN2178I-S

**The data-name in the RECORD clause must be an unsigned integer item. The data-name is ignored.**

### Example

```

[P2178.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2178.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS SEQUENTIAL.
000008 DATA          DIVISION.
000009 FILE           SECTION.
000010 FD SQFILE1
000011     RECORD VARYING IN SIZE
000012     DEPENDING ON WRECL.
000013 01 SQF1REC.
000014 02             PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WRECL      PIC X(2).
000017 PROCEDURE     DIVISION.
000018 END PROGRAM   P2178.

```

P2178.cob 12: JMN2178I-S The data-name in the RECORD clause must be an unsigned integer item. The data-name is ignored.

### Explanation

Not only the program but also COBOL processing system sets the number of character positions of the record to the data item specified by DEPENDING ON of the RECORD clause. The value must be defined using the prescribed data description so that the system treats the quantity correctly.

## JMN2181I-S

**Data-name '@2@' in the @1@ clause must be unique. The data-name is ignored.**

### Parameter Explanation

@1@ : APPLY, LABEL RECORD, RECORD KEY, ALTERNATE RECORD KEY, FORMATTED RECORD or CONTROL RECORD.

@2@ : Data name which causes error.

### Example

```
[P2181.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2181.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE            SECTION.
000010 FD SQFILE1
000011     LABEL RECORD RECLB.
000012 01 SQF1REC.
000013 02                PIC X(80).
000014 01 RECLB          PIC X(80).
000015 01 RECLB          PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 PROCEDURE        DIVISION.
000018 END PROGRAM      P2181.
```

P2181.cob 11: JMN2181I-S Data-name 'RECLB' in the LABEL RECORD clause must be unique. The data-name is ignored.

### JMN2182I-S

---

**Data-name '@2@' in the @1@ clause is undefined. The data-name is ignored.**

#### Parameter Explanation

@1@ : APPLY, LABEL RECORD, RECORD KEY, ALTERNATE RECORD KEY, FORMATTED RECORD or CONTROL RECORD.

@2@ : Data name which causes the error.

### Example

```
[P2182.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2182.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE            SECTION.
000010 FD SQFILE1
000011     LABEL RECORD RECLB.
000012 01 SQF1REC.
000013 02                PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE        DIVISION.
000016 END PROGRAM      P2182.
```

P2182.cob 11: JMN2182I-S Data-name 'RECLB' in the LABEL RECORD clause is undefined. The data-name is ignored.

### JMN2183I-S

---

**'@2@' in the @1@ clause is not defined as a data-name. The data-name is ignored.**

## Parameter Explanation

@1@ : APPLY, LABEL RECORD, RECORD KEY, ALTERNATE RECORD KEY, FORMATTED RECORD or CONTROL RECORD.

@2@ : User-defined word which causes the error.

## Example

```
[P2183.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2183.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1
000011     LABEL RECORD SQFILE1.
000012 01 SQF1REC.
000013 02              PIC X(80).
000014 01 RECLB       PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 PROCEDURE       DIVISION.
000017 END PROGRAM      P2183.
```

P2183.cob 11: JMN2183I-S 'SQFILE1' in the LABEL RECORD clause is not defined as a data-name. The data-name is ignored.

## JMN2188I-S

**Data-name '@1@' in the LINAGE clause must be defined in a section other than the REPORT SECTION. The data-name is ignored.**

## Parameter Explanation

@1@ : Data name which causes the error.

## Example

```
[P2188.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2188.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE  ASSIGN TO SYS001.
000007     SELECT REPFIL  ASSIGN TO SYS002.
000008 I-O-CONTROL.
000009 DATA            DIVISION.
000010 FILE             SECTION.
000011 FD SQFILE
000012     LINAGE WPAGE.
000013 01 SQF1REC.
000014 02              PIC X(80).
000015 FD REPFIL
000016     REPORT IS REP1.
000017 WORKING-STORAGE SECTION.
000018 REPORT          SECTION.
000019 RD REP1 PAGE 66
000020     FIRST DETAIL 10.
000021 01            TYPE PH.
000022 02            LINE 7.
000023 03 WPAGE      COLUMN 60 PIC 9(4) VALUE 12.
```

```
000024 PROCEDURE      DIVISION.
000025 END PROGRAM    P2188.
```

P2188.cob 12: JMN2188I-S Data-name 'WPAGE' in the LINAGE clause must be defined in a section other than the REPORT SECTION. The data-name is ignored.

## JMN2189I-S

**Data-name '@1@' in the LINAGE clause must be an unsigned integer item. The data-name is ignored.**

### Parameter Explanation

@1@ : Data name that causes the error.

### Example

```
[P2189.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2189.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA             DIVISION.
000009 FILE              SECTION.
000010 FD SQFILE
000011     LINAGE WPAGE.
000012 01 SQF1REC.
000013 02                PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 01 WPAGE         PIC X.
000016 PROCEDURE      DIVISION.
000017 END PROGRAM    P2189.
```

P2189.cob 11: JMN2189I-S Data-name 'WPAGE' in the LINAGE clause must be an unsigned integer item. The data-name is ignored.

### Explanation

The LINAGE clause defines the number of lines that compose the parts on logical pages. The data item must be defined using the prescribed data definition so that the COBOL runtime system can interpret its value correctly.

## JMN2190I-S (**Win32**)

**A named-constant can only be referenced in a FILE SECTION, WORKING-STORAGE SECTION, LINKAGE SECTION, CONSTANT SECTION, BASED-STORAGE SECTION, SCREEN SECTION of DATA DIVISION and PROCEDURE DIVISION.**

### Example

```
[P2190.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2190.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE1 ASSIGN TO SYS001.
000007 DATA             DIVISION.
000008 FILE              SECTION.
000009 FD FILE1
000010     REPORT R1.
000011 WORKING-STORAGE SECTION.
000012 01 DATAN         PIC X(80).
000013 78 PIC1        VALUE 80.
000014 REPORT          SECTION.
```

```

000015 RD R1 CONTROL FINAL
000016 PAGE LIMITS ARE 66 LINES.
000017 01 DE1 TYPE IS DETAIL.
000018 02 LINE NUMBER PLUS 3.
000019 03 DATA1 COLUMN 10 PIC X(PIC1)
000020 VALUE "DETAIL REPORT GROUP-1".
000021 PROCEDURE DIVISION.
000022 END PROGRAM P2190.

```

P2190.cob 19: JMN2190I-S A named-constant can only be referenced in a FILE SECTION, WORKING-STORAGE SECTION, LINKAGE SECTION, CONSTANT SECTION, BASED-STORAGE SECTION, SCREEN SECTION of DATA DIVISION and PROCEDURE DIVISION.

#### Explanation

The named literal cannot be referenced in the identification division, the environment division or the report section of the data division.

### JMN2190I-S ([Winx64])

**A named-constant can only be referenced in a FILE SECTION, WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION, LINKAGE SECTION, CONSTANT SECTION, BASED-STORAGE SECTION, SCREEN SECTION of DATA DIVISION and PROCEDURE DIVISION.**

#### Example

```

[P2190.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2190.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT FILE1 ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD FILE1
000010 REPORT R1.
000011 WORKING-STORAGE SECTION.
000012 01 DATAN PIC X(80).
000013 78 PIC1 VALUE 80.
000014 REPORT SECTION.
000015 RD R1 CONTROL FINAL
000016 PAGE LIMITS ARE 66 LINES.
000017 01 DE1 TYPE IS DETAIL.
000018 02 LINE NUMBER PLUS 3.
000019 03 DATA1 COLUMN 10 PIC X(PIC1)
000020 VALUE "DETAIL REPORT GROUP-1".
000021 PROCEDURE DIVISION.
000022 END PROGRAM P2190.

```

P2190.cob 19: JMN2190I-S A named-constant can only be referenced in a FILE SECTION, WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION, LINKAGE SECTION, CONSTANT SECTION, BASED-STORAGE SECTION, SCREEN SECTION of DATA DIVISION and PROCEDURE DIVISION.

#### Explanation

The named literal cannot be referenced in the identification division, the environment division or the report section of the data division.

### JMN2191I-S

**The data-name in the OCCURS DEPENDING ON clause must be defined in a section other than the REPORT SECTION.**

## Example

```
[P2191.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2191.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS002.
000007 I-O-CONTROL.
000008 DATA             DIVISION.
000009 FILE              SECTION.
000010 FD REPFIL
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 WGRP.
000014 02 WOCC           OCCURS 10 DEPENDING ON WDPND.
000015 03               PIC X.
000016 REPORT           SECTION.
000017 RD REP1 PAGE 66
000018     FIRST DETAIL 10.
000019 01 TYPE PH.
000020 02 LINE 7.
000021 03 WDPND         COLUMN 60 PIC 9(4) VALUE 12.
000022 PROCEDURE        DIVISION.
000023 END PROGRAM      P2191.
```

P2191.cob 14: JMN2191I-S The data-name in the OCCURS DEPENDING ON clause must be defined in a section other than the REPORT SECTION.

## JMN2192I-S

**If the OCCURS DEPENDING ON clause is specified in a record with an external attribute, the object must also be an item with an external attribute in the same DATA DIVISION.**

## Example

```
[P2192.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2192.
000003 ENVIRONMENT      DIVISION.
000004 DATA             DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP EXTERNAL.
000007 02 WOCC           OCCURS 10 DEPENDING ON WDPND.
000008 03               PIC X.
000009 01 WDPND         PIC S9(9) BINARY.
000010 PROCEDURE        DIVISION.
000011 END PROGRAM      P2192.
```

P2192.cob 7: JMN2192I-S If the OCCURS DEPENDING ON clause is specified in a record with an external attribute, the object must also be an item with an external attribute in the same DATA DIVISION.

## JMN2193I-S

**If the OCCURS DEPENDING ON clause is specified in a record with a global attribute, the object must also be an item with a global attribute in the same DATA DIVISION.**

## Example

```
[P2193.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2193.
000003 ENVIRONMENT      DIVISION.
```

```

000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP GLOBAL.
000007 02 WOCC        OCCURS 10 DEPENDING ON WDPND.
000008 03             PIC X.
000009 01 WDPND       PIC S9(9) BINARY.
000010 PROCEDURE      DIVISION.
000011 END PROGRAM    P2193.

```

P2193.cob 7: JMN2193I-S If the OCCURS DEPENDING ON clause is specified in a record with a global attribute, the object must also be an item with a global attribute in the same DATA DIVISION.

## JMN2194I-S

**The first data-name '@1@' specified in the KEY IS phrase must be either an item with an OCCURS clause or an item subordinate to an item with an OCCURS clause. The data-name is ignored.**

### Parameter Explanation

@1@ : Data name that causes the error.

### Example

```

[P2194.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2194.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WOCC        OCCURS 10 ASCENDING KEY IS WKEY1 WKEY2.
000008 03 WKEY2       PIC X(1).
000009 02 WKEY1       PIC X(1).
000010 PROCEDURE      DIVISION.
000011 END PROGRAM     P2194.

```

P2194.cob 7: JMN2194I-S The first data-name 'WKEY1' specified in the KEY IS phrase must be either an item with an OCCURS clause or an item subordinate to an item with an OCCURS clause. The data-name is ignored.

### Explanation

The data-name that is specified by the KEY IS phrase must be a data-name of a data description entry that specified the OCCURS clause, or a data-name of a data description entry that is subordinate to the data description entry.

If the data-name of the data description entry that specified the OCCURS clause is specified for the KEY IS phrase, that data-name is the only one that can be specified for the KEY IS phrase.

## JMN2195I-S

**Unless it is the first data-name specified in the KEY IS phrase, data-name '@1@' must be subordinate to an item with an OCCURS clause. The data-name is ignored.**

### Parameter Explanation

@1@ : Data name that causes the error.

### Example

```

[P2195.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2195.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.

```

```

000007 02 WKEY2 OCCURS 10 ASCENDING KEY IS WKEY1 WKEY2.
000008 03 WKEY1 PIC X(1).
000009 PROCEDURE DIVISION.
000010 END PROGRAM P2195.

```

P2195.cob 7: JMN2195I-S Unless it is the first data-name specified in the KEY IS phrase, data-name 'WKEY2' must be subordinate to an item with an OCCURS clause. The data-name is ignored.

### Explanation

The data-name that is specified by KEY IS phrase must be a data-name of a data description entry that specified the OCCURS clause, or a data-name of a data description entry that is subordinate to the data description entry.

If the data-name of the data description entry that specified the OCCURS clause is specified for the KEY IS phrase, that data-name is the only one that can be specified for the KEY IS phrase.

## JMN2196I-S

**Data-name '@1@' can only be an item with an OCCURS clause if it is the first data-name specified in a KEY IS phrase. The data-name is ignored.**

### Parameter Explanation

@1@ : Data name that causes the error.

### Example

```

[P2196.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2196.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WKEY1 OCCURS 10 ASCENDING KEY IS WKEY1 WKEY2.
000008 03 WKEY2 PIC X(1) OCCURS 10.
000009 PROCEDURE DIVISION.
000010 END PROGRAM P2196.

```

P2196.cob 7: JMN2196I-S Data-name 'WKEY2' can only be an item with an OCCURS clause if it is the first data-name specified in a KEY IS phrase. The data-name is ignored.

### Explanation

Since the data-name is not the first item of the KEY IS phrase, it cannot be used with the OCCURS clause.

## JMN2197I-S

**The data-name '@1@' in the KEY IS phrase must not exceed 256 bytes in length. The data-name is ignored.**

### Parameter Explanation

@1@ : Data name which causes the error.

### Example

```

[P2197.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2197.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WOCC OCCURS 15 ASCENDING KEY IS WKEY1.
000008 03 WKEY1 PIC X(257).

```



```
000009 PROCEDURE      DIVISION.
000010 END PROGRAM    P2197.
```

P2197.cob 7: JMN2197I-S The data-name 'WKEY1' in the KEY IS phrase must not exceed 256 bytes in length. The data-name is ignored.

#### Explanation

The data-name used in the KEY IS phrase cannot exceed 256 bytes in length.

### JMN2200I-W

**The length of the literal specified in the VALUE clause of the group item must not exceed the length of the item. Excess characters on the right side of the specified literal are discarded.**

#### Example

```
[P2200.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2200.
000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP VALUE " A B C ".
000007 02              PIC N.
000008 02              PIC X(3).
000009 PROCEDURE      DIVISION.
000010 END PROGRAM    P2200.
```

P2200.cob 6: JMN2200I-W The length of the literal specified in the VALUE clause of the group item must not exceed the length of the item. Excess characters on the right side of the specified literal are discarded.

### JMN2201I-W

**The length of the Boolean literal of the VALUE clause specified in the group item must be a multiple of 8. Zeros are added on the right side of the literal to make it a multiple of 8.**

#### Example

```
[P2201.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2201.
000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP VALUE B"111100011".
000007 02              PIC N.
000008 PROCEDURE      DIVISION.
000009 END PROGRAM    P2201.
```

P2201.cob 6: JMN2201I-W The length of the Boolean literal of the VALUE clause specified in the group item must be a multiple of 8. Zeros are added on the right side of the literal to make it a multiple of 8.

#### Explanation

If a Boolean literal is specified for an initial value of a group item, the Boolean character ("0" or "1") is assumed to be 1 bit and is set to the item. The number of Boolean characters must be multiples of eight. If it is not multiple of eight, Boolean character '0's are added at the right of the Boolean literal until it is a multiple of eight.

### JMN2202I-W

**The length of the VALUE clause literal of the condition-name whose conditional variable is a group item cannot exceed the length of the group item. Excess characters on the right side of the specified literal are discarded.**

## Example

```
[P2202.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2202.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 88 OKVAL        VALUE "ABCDE".
000008 88 NGVAL        VALUE " A B C ".
000009 02              PIC N.
000010 02              PIC X(3).
000011 PROCEDURE      DIVISION.
000012 END PROGRAM     P2202.
```

P2202.cob 8: JMN2202I-W The length of the VALUE clause literal of the condition-name whose conditional variable is a group item cannot exceed the length of the group item. Excess characters on the right side of the specified literal are discarded.

## Explanation

The constant specified by the VALUE clause of the condition-name description entry (level-number 88) is longer than the item length of the conditional variable. The constant for the length of the conditional variable is considered to be a value of the condition-name, and any excess characters are discarded.

## JMN2205I-S

### Data-name '@2@' of the @1@ clause cannot be an item that requires a subscript.

#### Parameter Explanation

@1@ : The clause or phrase described in the ENVIRONMENT DIVISION or DATA DIVISION that needs to have a data name specified, but the ASCENDING/DESENDING KEY IS phrase of the OCCURS clause is excluded.

@2@ : Data name that causes the error.

## Example

```
[P2205.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2205.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IXFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS INDEXED
000008     RECORD KEY    IS WRKY1.
000009 I-O-CONTROL.
000010 DATA           DIVISION.
000011 FILE            SECTION.
000012 FD IXFILE1.
000013 01 IXF1REC.
000014 02 WRKY1       PIC X(1) OCCURS 10.
000015 02             PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 PROCEDURE      DIVISION.
000018 END PROGRAM     P2205.
```

P2205.cob 8: JMN2205I-S Data-name 'WRKY1' of the RECORD KEY clause cannot be an item that requires a subscript.

## Explanation

The specified data-name cannot be the data description entry with the OCCURS clause or its subordinate item. The data description entry with the OCCURS clause is a table, and elements in the table are called "table elements." A table element is subscripted before being referenced.

## JMN2206I-S

**Data-name '@2@' in the @1@ clause cannot be a variable address item.**

### Parameter Explanation

@1@ : The clause or phrase described in the ENVIRONMENT DIVISION or DATA DIVISION that needs a data name to be specified.

@2@ : The data name that causes the error.

### Example

```
[P2206.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2206.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE             SECTION.
000009 FD SQFILE1
000010     RECORD VARYING IN SIZE
000011     DEPENDING ON WVAD.
000012 01 SQF1REC.
000013 02              PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 01 WGRP.
000016 02 WDPND        PIC S9(9) COMP-5.
000017 02 WOCC         OCCURS 10 DEPENDING ON WDPND
000018                 PIC X(1).
000019 02 WVAD         PIC 9(4).
000020 PROCEDURE        DIVISION.
000021 END PROGRAM      P2206.
```

P2206.cob 11: JMN2206I-S Data-name 'WVAD' in the RECORD clause cannot be a variable address item.

## JMN2207I-S

**The alphabet-name of the CODE-SET clause specified in something other than a paper tape file must be a STANDARD-1, STANDARD-2, or NATIVE specification.**

### Example

```
[P2207.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2207.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION    SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET CD1 IS CODE-1.
000007 INPUT-OUTPUT    SECTION.
000008 FILE-CONTROL.
000009     SELECT SQFILE1 ASSIGN TO SYS001.
000010 DATA            DIVISION.
000011 FILE             SECTION.
000012 FD SQFILE1 CODE-SET CD1.
000013 01 SQF1REC.
000014 02              PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 PROCEDURE        DIVISION.
000017 END PROGRAM      P2207.
```

P2207.cob 12: JMN2207I-S The alphabet-name of the CODE-SET clause specified in something other than a paper tape file must be a STANDARD-1, STANDARD-2, or NATIVE specification.

#### Explanation

This compiler treats the CODE-SET clause as a comment.

### JMN2210I-S

---

**The dimension number specified in the OCCURS clause cannot exceed 7.**

#### Example

```
[P2210.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2210.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WOCC1        OCCURS 10.
000008 03 WOCC2        OCCURS 10.
000009 04 WOCC3        OCCURS 10.
000010 05 WOCC4        OCCURS 10.
000011 06 WOCC5        OCCURS 10.
000012 07 WOCC6        OCCURS 10.
000013 08 WOCC7        OCCURS 10.
000014 09 WOCC8        OCCURS 10.
000015 10              PIC X.
000016 PROCEDURE      DIVISION.
000017 END PROGRAM    P2210.
```

P2210.cob 14: JMN2210I-S The dimension number specified in the OCCURS clause cannot exceed 7.

#### Explanation

The COBOL processing system limits the dimension number of the OCCURS clause to a maximum of 7.

### JMN2212I-S

---

**The LINAGE clause can only be specified for a sequential file.**

#### Example

```
[P2212.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2212.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT RLFILE1 ASSIGN TO SYS001
000007     ORGANIZATION   IS RELATIVE.
000008 DATA           DIVISION.
000009 FILE           SECTION.
000010 FD RLFILE1
000011     LINAGE 66.
000012 01 RLF1REC.
000013 02              PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 01 WFS1         PIC X(2).
000016 PROCEDURE      DIVISION.
000017 END PROGRAM    P2212.
```

P2212.cob 11: JMN2212I-S The LINAGE clause can only be specified for a sequential file.

## Explanation

The LINAGE clause specifies the layout of printed pages. The file with the LINAGE clause is assumed to be a print file, which is a sequential files.

### JMN2213I-S

---

**Data-name '@2@' in the @1@ clause is defined multiple times. The @1@ clause is ignored.**

#### Parameter Explanation

@1@ : RENAMES, VALUE, BASED ON, LENGTH, RECORD or CHARACTER TYPE.

@2@ : Data name which causes error.

#### Example

```
[P2213.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2213.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GR1.
000007 02 E1            PIC X(5).
000008 02 E1            PIC N(5).
000009 66 R1 RENAMES E1 THRU E1.
000010 PROCEDURE       DIVISION.
000011 END PROGRAM     P2213.
```

P2213.cob 9: JMN2213I-S Data-name 'E1' in the RENAMES clause is defined multiple times. The RENAMES clause is ignored.

### JMN2214I-S

---

**Data-name '@2@' in the @1@ clause is undefined. The @1@ clause is ignored.**

#### Parameter Explanation

@1@ : RENAMES, VALUE, BASED ON, LENGTH, RECORD or CHARACTER TYPE.

@2@ : Data name which causes error.

#### Example

```
[P2214.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2214.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP1.
000007 02 WELM1        PIC X.
000008 02 WELM2        PIC X.
000009 66 WGRP2 RENAMES WELM1 THRU WELM3.
000010 PROCEDURE       DIVISION.
000011 END PROGRAM     P2214.
```

P2214.cob 9: JMN2214I-S Data-name 'WELM3' in the RENAMES clause is undefined. The RENAMES clause is ignored.

### JMN2215I-S

---

**The user-defined word '@2@' of the @1@ clause must be a data-name. The @1@ clause is ignored.**

#### Parameter Explanation

@1@ : RENAMES, VALUE, BASED ON, LENGTH, RECORD or CHARACTER TYPE.

@2@ : User-defined word which causes the error.

### Example

```
[P2215.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2215.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP1.
000007 02 WELM1        PIC X.
000008 02 WELM2        PIC X.
000009 88 WELM2-CND1   VALUE "1".
000010 66 WGRP2 RENAMES WELM1 THRU WELM2-CND1.
000011 PROCEDURE       DIVISION.
000012 LVL1.
000013 END PROGRAM     P2215.
```

P2215.cob 10: JMN2215I-S The user-defined word 'WELM2-CND1' of the RENAMES clause must be a data-name. The RENAMES clause is ignored.

### JMN2216I-S

---

**The data item defined in the CONSTANT SECTION must have a VALUE clause.**

### Example

```
[P2216.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2216.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 CONSTANT         SECTION.
000006 01 WCD           PIC X.
000007 PROCEDURE       DIVISION.
000008 END PROGRAM       P2216.
```

P2216.cob 6: JMN2216I-S The data item defined in the CONSTANT SECTION must have a VALUE clause.

### Explanation

The CONSTANT SECTION defines constants used by a COBOL program. The data description entry in the CONSTANT SECTION must have the VALUE clause.

### JMN2218I-S

---

**The EXTERNAL clause cannot be specified in file that is specified in a @1@ clause.**

### Parameter Explanation

@1@ : SAME AREA, SAME RECORD AREA, or APPLY SAVED-AREA.

### Example

```
[P2218.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2218.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT SQFILE2 ASSIGN TO SYS002.
000008 I-O-CONTROL.
000009     SAME AREA SQFILE1 SQFILE2.
```

```

000010 DATA          DIVISION.
000011 FILE           SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02             PIC X(80).
000015 FD SQFILE2 IS EXTERNAL.
000016 01 SQF2REC.
000017 02             PIC X(80).
000018 WORKING-STORAGE SECTION.
000019 PROCEDURE      DIVISION.
000020 END PROGRAM     P2218.

```

P2218.cob 15: JMN2218I-S The EXTERNAL clause cannot be specified in file that is specified in a SAME AREA clause.

## JMN2219I-S

**The EXTERNAL clause cannot be specified in a file which is specified in a MULTIPLE FILE TAPE clause.**

### Example

```

[P2219.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2219.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008     MULTIPLE FILE TAPE CONTAINS SQFILE1.
000009 DATA            DIVISION.
000010 FILE             SECTION.
000011 FD SQFILE1 IS EXTERNAL.
000012 01 SQF1REC.
000013 02             PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE        DIVISION.
000016 END PROGRAM       P2219.

```

P2219.cob 11: JMN2219I-S The EXTERNAL clause cannot be specified in a file which is specified in a MULTIPLE FILE TAPE clause.

## JMN2221I-S

**The GLOBAL clause cannot be specified for a file that is specified in a SAME RECORD AREA clause or in its subordinate record description entry.**

### Example

```

[P2221.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2221.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT SQFILE2 ASSIGN TO SYS002.
000008 I-O-CONTROL.
000009     SAME RECORD AREA SQFILE1 SQFILE2.
000010 DATA            DIVISION.
000011 FILE             SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02             PIC X(80).
000015 FD SQFILE2 IS GLOBAL.

```

```

000016 01 SQF2REC.
000017 02          PIC X(80).
000018 WORKING-STORAGE SECTION.
000019 PROCEDURE    DIVISION.
000020 END PROGRAM  P2221.

```

P2221.cob 15: JMN2221I-S The GLOBAL clause cannot be specified for a file that is specified in a SAME RECORD AREA clause or in its subordinate record description entry.

## JMN2222I-S

**The PICTURE clause is missing. PICTURE 9 is assumed.**

### Example

```

[P2222.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2222.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 PROCEDURE       DIVISION.
000008 END PROGRAM      P2222.

```

P2222.cob 6: JMN2222I-S The PICTURE clause is missing. PICTURE 9 is assumed.

### Explanation

The PICTURE clause specifies the category, size, and editing format of elementary items. PICTURE and PIC are synonyms. If the PICTURE clause is missing, 'PICTURE 9' is assumed, but neither the object file nor the executable file is generated.

## JMN2223I-S

**Only a USAGE clause with COMPUTATIONAL-1, COMPUTATIONAL-2, or INDEX can be specified for an elementary item without a PICTURE clause. The USAGE clause is ignored and PICTURE 9 is assumed.**

### Example

```

[P2223.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2223.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP BINARY.
000007 PROCEDURE       DIVISION.
000008 END PROGRAM      P2223.

```

P2223.cob 6: JMN2223I-S Only a USAGE clause with COMPUTATIONAL-1, COMPUTATIONAL-2, or INDEX can be specified for an elementary item without a PICTURE clause. The USAGE clause is ignored and PICTURE 9 is assumed.

### Explanation

'PICTURE 9' is assumed, but neither the object file nor the executable file is generated.

## JMN2224I-W

**The data-name with the CHARACTER TYPE clause or PRINTING POSITION clause is redefined. The print result is not guaranteed.**

### Example

```

[P2224.cob]
000001 IDENTIFICATION DIVISION.

```



```

000002 PROGRAM-ID.      P2224.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD SQFILE.
000010 01 SQREC        PIC X(80).
000011 WORKING-STORAGE SECTION.
000012 01 WGRP.
000013     02 WSUBG1 CHARACTER TYPE MODE-1.
000014         03          PIC X(10).
000015         03          PIC N(10).
000016         03          PIC X(10).
000017         03          PIC N(20).
000018     02 WSUBG2 REDEFINES WSUBG1.
000019         03          PIC X(10).
000020         03          PIC N(10).
000021         03          PIC X(10).
000022         03          PIC N(20).
000023 PROCEDURE        DIVISION.
000024     WRITE SQREC FROM WGRP
000025 END PROGRAM      P2224.

```

P2224.cob 18: JMN2224I-W The data-name with the CHARACTER TYPE clause or PRINTING POSITION clause is redefined. The print result is not guaranteed.

### Explanation

The CHARACTER TYPE clause specifies the format of characters to be used when printing. The PRINTING POSITION clause specifies the column to use when printing. When these clauses are applied to a data item that has been redefined by another data item, the COBOL runtime system cannot obtain correct information for the print.

## JMN2225I-S

**The CHARACTER TYPE clause can only be specified to a national, national edited, or group item.**

### Example

```

[P2225.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2225.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM          PIC S9(9) CHARACTER TYPE MODE-1.
000007 PROCEDURE        DIVISION.
000008 END PROGRAM      P2225.

```

P2225.cob 6: JMN2225I-S The CHARACTER TYPE clause can only be specified to a national, national edited, or group item.

### Explanation

The CHARACTER TYPE clause with MODE-1, MODE-2, MODE-3 or the mnemonic-name specifies the format of characters to be used when printing a national item or a national edited item. This clause has no effect on the group item that does not contain a national/national edited item.

## JMN2226I-S

**The CHARACTER TYPE clause can be specified for an item with a REDEFINES clause only with a level-number 01 or 77 item, or in its subordinate item.**

## Example

```
[P2226.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2226.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WGRP2.
000008 03              PIC N(10)
000009                  CHARACTER TYPE MODE-2.
000010 02 WGRP3 REDEFINES WGRP2.
000011 03              PIC N(10)
000012                  CHARACTER TYPE MODE-1.
000013 PROCEDURE       DIVISION.
000014 END PROGRAM     P2226.
```

P2226.cob 12: JMN2226I-S The CHARACTER TYPE clause can be specified for an item with a REDEFINES clause only with a level-number 01 or 77 item, or in its subordinate item.

## Explanation

The CHARACTER TYPE clause specifies format of characters to be used when printing. In general, when this clause is applied to the data item that has been redefined by another data item, the COBOL runtime system cannot obtain correct information for the print. If the redefine is between items of level-number 01 or 77, correct print information can be obtained.

## JMN2227I-S

**The PRINTING POSITION clause cannot be specified in a record description that includes an OCCURS DEPENDING ON clause.**

## Example

```
[P2227.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2227.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WDPEND      PIC S9(4) BINARY.
000008 02 WNC         CHARACTER TYPE MODE-1.
000009 03              PIC N(10)
000010              PRINTING POSITION 10.
000011 02 WOCC       OCCURS 10 DEPENDING ON WDPEND.
000012 03              PIC N(10).
000013 PROCEDURE       DIVISION.
000014 END PROGRAM     P2227.
```

P2227.cob 6: JMN2227I-S The PRINTING POSITION clause cannot be specified in a record description that includes an OCCURS DEPENDING ON clause.

## JMN2228I-S

**The PRINTING POSITION clause can only be specified for an item with a CHARACTER TYPE clause or its subordinate item.**

## Example

```
[P2228.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2228.
000003 ENVIRONMENT     DIVISION.
```

```

000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007    02 WNC.
000008      03          PIC N(10)
000009                PRINTING POSITION 10.
000010 PROCEDURE      DIVISION.
000011 END PROGRAM    P2228.

```

P2228.cob 9: JMN2228I-S The PRINTING POSITION clause can only be specified for an item with a CHARACTER TYPE clause or its subordinate item.

## JMN2229I-S

**The PRINTING POSITION clause cannot be specified for an item with an OCCURS clause or its subordinate item.**

### Example

```

[P2229.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2229.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP CHARACTER TYPE MODE-1.
000007    02 WOCC       OCCURS 10.
000008      03          PIC N(10)
000009                PRINTING POSITION 10.
000010 PROCEDURE       DIVISION.
000011 END PROGRAM       P2229.

```

P2229.cob 9: JMN2229I-S The PRINTING POSITION clause cannot be specified for an item with an OCCURS clause or its subordinate item.

## JMN2231I-S

**A condition-name cannot be specified for an index data item.**

### Example

```

[P2231.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2231.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WIX          INDEX.
000007 88 ZINIT        VALUE 0.
000008 PROCEDURE       DIVISION.
000009 END PROGRAM       P2231.

```

P2231.cob 7: JMN2231I-S A condition-name cannot be specified for an index data item.

### Explanation

The index data item is used to store the value of the index-name (information that the compiler generates to identify the table element). The index data item cannot be defined as a conditional variable.

## JMN2232I-W

**The length of the redefining item cannot exceed the length of the redefined item. The redefining item overlaps no items other than ones explicitly specified.**

## Example

```
[P2232.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2232.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP1.
000007    02           PIC X(10).
000008 01 RGRP1 REDEFINES WGRP1.
000009    02           PIC N(10).
000010 01 .
000011    02 WGRP2.
000012    03           PIC X(10).
000013    02 RGRP2 REDEFINES WGRP2.
000014    03           PIC N(10).
000015 PROCEDURE       DIVISION.
000016 END PROGRAM     P2232.
```

P2232.cob 13: JMN2232I-W The length of the redefining item cannot exceed the length of the redefined item. The redefining item overlaps no items other than ones explicitly specified.

## JMN2233I-S

---

**Data-name '@2@' of the @1@ clause is not unique. The data-name is ignored.**

### Parameter Explanation

@1@ : LINAGE or KEY IS.

@2@ : Data name which causes the error.

## Example

```
[P2233.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2233.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GR1.
000007    02 OCC1 OCCURS 10 ASCENDING KEY IS E1.
000008    03 E1         PIC X.
000009    03 E1         PIC X.
000010 PROCEDURE       DIVISION.
000011 END PROGRAM     P2233.
```

P2233.cob 7: JMN2233I-S Data-name 'E1' of the KEY IS clause is not unique. The data-name is ignored.

## JMN2234I-S

---

**Data-name '@2@' of the @1@ clause is undefined. The data-name is ignored.**

### Parameter Explanation

@1@ : LINAGE or KEY IS.

@2@ : Data name which causes the error.

## Example

```
[P2234.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2234.
000003 ENVIRONMENT     DIVISION.
```

```

000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GR1.
000007 02 OCC1 OCCURS 10 ASCENDING KEY IS E2.
000008 03 E1          PIC X.
000009 PROCEDURE      DIVISION.
000010 END PROGRAM     P2234.

```

P2234.cob 7: JMN2234I-S Data-name 'E2' of the KEY IS clause is undefined. The data-name is ignored.

## JMN2235I-S

**User-defined word '@2@' in the @1@ clause must be a data-name. The user-defined word is ignored.**

### Parameter Explanation

@1@ : LINAGE or KEY IS.

@2@ : User-defined word which causes the error.

### Example

```

[P2235.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2235.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 SPECIAL-NAMES.
000006          SYSIN IS INPUT-DATA.
000007 DATA            DIVISION.
000008 WORKING-STORAGE  SECTION.
000009 01 WGRP.
000010 02 WOCC          OCCURS 10 ASCENDING KEY IS INPUT-DATA.
000011 03 WKEY1        PIC X(1).
000012 03 WKEY2        PIC X(1).
000013 PROCEDURE      DIVISION.
000014 END PROGRAM      P2235.

```

P2235.cob 10: JMN2235I-S User-defined word 'INPUT-DATA' in the KEY IS clause must be a data-name. The user-defined word is ignored.

## JMN2236I-S

**The BLOCK CONTAINS clause cannot be specified in a file which is referred to by a WRITE statement with an END-OF-PAGE phrase.**

### Example

```

[P2236.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2236.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT      SECTION.
000005 FILE-CONTROL.
000006          SELECT SQFILE1 ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD SQFILE1
000010          BLOCK CONTAINS 10.
000011 01 SQF1REC.
000012 02              PIC X(80).
000013 WORKING-STORAGE  SECTION.
000014 PROCEDURE      DIVISION.
000015          WRITE SQF1REC
000016          AT END-OF-PAGE

```

```

000017          DISPLAY "P2236"
000018          END-WRITE
000019 END PROGRAM      P2236.

```

P2236.cob 9: JMN2236I-S The BLOCK CONTAINS clause cannot be specified in a file which is referred to by a WRITE statement with an END-OF-PAGE phrase.

#### Explanation

This compiler treats the BLOCK CONTAINS clause as a comment.

### JMN2239I-S

**The record length of a file with 'F' or 'V' in the RECORDING MODE clause cannot exceed the integer specified in the BLOCK CONTAINS clause with the CHARACTERS phrase. The BLOCK CONTAINS clause is ignored.**

#### Example

```

[P2239.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P2239.
000004 ENVIRONMENT      DIVISION.
000005 INPUT-OUTPUT     SECTION.
000006 FILE-CONTROL.
000007          SELECT SQFILE1 ASSIGN TO SYS001.
000008 I-O-CONTROL.
000009 DATA             DIVISION.
000010 FILE              SECTION.
000011 FD SQFILE1
000012          RECORDING MODE IS V
000013          BLOCK CONTAINS 80 CHARACTERS.
000014 01 SQF1REC.
000015 02              PIC X(79).
000016 WORKING-STORAGE SECTION.
000017 01 WFS1          PIC X(2).
000018 PROCEDURE        DIVISION.
000019 END PROGRAM      P2239.

```

P2239.cob 11: JMN2239I-S The record length of a file with 'F' or 'V' in the RECORDING MODE clause cannot exceed the integer specified in the BLOCK CONTAINS clause with the CHARACTERS phrase. The BLOCK CONTAINS clause is ignored.

#### Explanation

The RECORDING MODE clause is specific to the OSIV-series.

### JMN2244I-S

**The BLOCK CONTAINS clause with 'integer TO integer' cannot be specified in a file with a fixed length format.**

#### Example

```

[P2244.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2244.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006          SELECT SQFILE1 ASSIGN TO SYS001.
000007 DATA             DIVISION.
000008 FILE              SECTION.
000009 FD SQFILE1
000010          RECORDING MODE IS F

```

```

000011      BLOCK  CONTAINS 40 TO 80.
000012 01 SQF1REC.
000013 02          PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE   DIVISION.
000016 END PROGRAM   P2244.

```

P2244.cob 9: JMN2244I-S The BLOCK CONTAINS clause with 'integer TO integer' cannot be specified in a file with a fixed length format.

### Explanation

This compiler treats the BLOCK CONTAINS clause as a comment.

## JMN2245I-S

**The record length of the file which is sequential (organization VS or AS), relative, indexed, or of fixed length format cannot exceed 32760 bytes. A record length of 32760 bytes is assumed.**

### Example

```

[P2245.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2245.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1.
000011 01 SQF1REC.
000012 02          PIC X(32767).
000013 WORKING-STORAGE SECTION.
000014 01 WFS1         PIC X(2).
000015 PROCEDURE     DIVISION.
000016 END PROGRAM     P2245.

```

P2245.cob 10: JMN2245I-S The record length of the file which is sequential (organization VS or AS), relative, indexed, or of fixed length format cannot exceed 32760 bytes. A record length of 32760 bytes is assumed.

### Explanation

The COBOL processing system restricts the record length of sequential files to 32,760 bytes.

## JMN2249I-S

**The block length of the file with a RECORDS phrase in the BLOCK CONTAINS clause or the file without the BLOCK CONTAINS clause cannot exceed 32760 bytes. A block length of 32760 bytes is assumed.**

### Example

```

[P2249.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2249.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1
000011     BLOCK CONTAINS 410 RECORDS.

```

```

000012 01 SQF1REC.
000013 02          PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE   DIVISION.
000016 END PROGRAM P2249.

```

P2249.cob 10: JMN2249I-S The block length of the file with a RECORDS phrase in the BLOCK CONTAINS clause or the file without the BLOCK CONTAINS clause cannot exceed 32760 bytes. A block length of 32760 bytes is assumed.

## JMN2251I-S

**The SYNCHRONIZED clause is required for the internal Boolean item with the OCCURS DEPENDING ON clause. The SYNCHRONIZED clause is assumed.**

### Example

```

[P2251.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2251.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WDPEND       PIC S9(3).
000008 02 WOCC         OCCURS 10 DEPENDING ON WDPEND
000009                 PIC 1(1) BIT.
000010 PROCEDURE       DIVISION.
000011 END PROGRAM      P2251.

```

P2251.cob 8: JMN2251I-S The SYNCHRONIZED clause is required for the internal Boolean item with the OCCURS DEPENDING ON clause. The SYNCHRONIZED clause is assumed.

### Explanation

For variable Boolean items, each table element must be aligned to a native boundary by specifying the SYNCHRONIZED(SYNC) clause. The SYNCHRONIZED clause is assumed to have been specified, but neither the object file nor the executable file is generated.

## JMN2252I-S

**The SYNCHRONIZED clause is required for the internal Boolean item with the indexed BY phrase in the OCCURS clause. The SYNCHRONIZED clause is assumed.**

### Example

```

[P2252.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2252.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02          PIC S9(3).
000008 02 WOCC         OCCURS 10 INDEXED BY IX1
000009                 PIC 1(1) BIT.
000010 PROCEDURE       DIVISION.
000011 END PROGRAM      P2252.

```

P2252.cob 8: JMN2252I-S The SYNCHRONIZED clause is required for the internal Boolean item with the indexed BY phrase in the OCCURS clause. The SYNCHRONIZED clause is assumed.

### Explanation

For index-name Boolean items, each table element must be aligned to a native boundary by specifying the SYNCHRONIZED(SYNC) clause. The SYNCHRONIZED clause is assumed to have been specified, but neither the object file nor the executable file is generated.



## JMN2269I-S

---

**Data-name '@2@' of the DEPENDING ON phrase of the @1@ clause is defined multiple times. The DEPENDING ON phrase is ignored.**

### Parameter Explanation

@1@ : RECORD or OCCURS.

@2@ : Data name which causes error.

### Example

```
[P2269.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2269.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 DEPEND       PIC S9(9) BINARY.
000007 01 DEPEND       PIC S9(9) BINARY.
000008 01 WGRP.
000009 02 WOCC         OCCURS 10 DEPENDING ON DEPEND.
000010 03              PIC X.
000011 PROCEDURE      DIVISION.
000012 END PROGRAM     P2269.
```

P2269.cob 9: JMN2269I-S Data-name 'DEPEND' of the DEPENDING ON phrase of the OCCURS clause is defined multiple times. The DEPENDING ON phrase is ignored.

## JMN2270I-S

---

**Data-name '@2@' of the DEPENDING ON phrase of the @1@ clause is undefined. The DEPENDING ON phrase is ignored.**

### Parameter Explanation

@1@ : RECORD or OCCURS.

@2@ : Data name which causes error.

### Example

```
[P2270.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2270.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WOCC         OCCURS 10 DEPENDING ON DEPEND.
000008 03              PIC X.
000009 PROCEDURE      DIVISION.
000010 END PROGRAM     P2270.
```

P2270.cob 7: JMN2270I-S Data-name 'DEPEND' of the DEPENDING ON phrase of the OCCURS clause is undefined. The DEPENDING ON phrase is ignored.

## JMN2271I-S

---

**'@2@' of the DEPENDING ON phrase of the @1@ clause must be a data-name. The DEPENDING ON phrase is ignored.**

## Parameter Explanation

@1@ : RECORD or OCCURS.

@2@ : User-defined word which causes error.

## Example

```
[P2271.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2271.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WOCC          OCCURS 10 DEPENDING ON WTYPI.
000008 03              PIC X.
000009 01 WTYPI        TYPEDEF   PIC X.
000010 PROCEDURE       DIVISION.
000011 END PROGRAM     P2271.
```

P2271.cob 7: JMN2271I-S 'WTYPI' of the DEPENDING ON phrase of the OCCURS clause must be a data-name. The DEPENDING ON phrase is ignored.

## JMN2273I-W

**The SIGN clause with 'SEPARATE' must be specified when a data item in a file with the CODE-SET clause is a signed external decimal item. It is accepted as written.**

## Example

```
[P2273.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2273.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET CD1 IS STANDARD-1.
000007 INPUT-OUTPUT   SECTION.
000008 FILE-CONTROL.
000009     SELECT SQFILE1 ASSIGN TO SYS001
000010     ORGANIZATION IS SEQUENTIAL.
000011 DATA            DIVISION.
000012 FILE            SECTION.
000013 FD SQFILE1
000014     CODE-SET CD1.
000015 01 SQF1REC.
000016 02              PIC S9(4).
000017 02              PIC X(80).
000018 PROCEDURE       DIVISION.
000019 END PROGRAM     P2273.
```

P2273.cob 16: JMN2273I-W The SIGN clause with 'SEPARATE' must be specified when a data item in a file with the CODE-SET clause is a signed external decimal item. It is accepted as written.

## Explanation

This compiler treats the CODE-SET clause as a comment.

## JMN2274I-W

**The usage of the data item for a file with a CODE-SET clause must be DISPLAY. It is accepted as written.**

## Example

```
[P2274.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2274.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET CD1 IS STANDARD-1.
000007 INPUT-OUTPUT    SECTION.
000008 FILE-CONTROL.
000009     SELECT SQFILE1 ASSIGN TO SYS001
000010     ORGANIZATION  IS SEQUENTIAL.
000011 DATA            DIVISION.
000012 FILE            SECTION.
000013 FD SQFILE1
000014     CODE-SET CD1.
000015 01 SQF1REC.
000016 02              PIC S9(4) BINARY.
000017 02              PIC X(80).
000018 PROCEDURE       DIVISION.
000019 END PROGRAM       P2274.
```

P2274.cob 16: JMN2274I-W The usage of the data item for a file with a CODE-SET clause must be DISPLAY. It is accepted as written.

## Explanation

This compiler treats the CODE-SET clause as a comment.

## JMN2276I-S

**A data-name must be explicitly specified for a level 01 item that is subordinate to a file with an EXTERNAL clause. The EXTERNAL clause is assumed to be valid.**

## Example

```
[P2276.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2276.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS SEQUENTIAL.
000008 I-O-CONTROL.
000009 DATA            DIVISION.
000010 FILE            SECTION.
000011 FD SQFILE1 IS EXTERNAL.
000012 01              .
000013 02              PIC X(80).
000014 PROCEDURE       DIVISION.
000015 END PROGRAM       P2276.
```

P2276.cob 12: JMN2276I-S A data-name must be explicitly specified for a level 01 item that is subordinate to a file with an EXTERNAL clause. The EXTERNAL clause is assumed to be valid.

## Explanation

Specifying the EXTERNAL clause in a file description entry sets the external attribute in the record description entry corresponding to the file. A data record with the external attribute can be shared by several programs in a run unit. In a run unit, the external data record is identified by that data-name. Therefore, the level-number 01 item (the first item of the area) must have a data-name.

## JMN2277I-S

**A data-name must be explicitly specified for a level 01 item that is subordinate to a file with a GLOBAL clause. The GLOBAL clause is assumed to be valid.**

### Example

```
[P2277.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2277.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS SEQUENTIAL.
000008 I-O-CONTROL.
000009 DATA             DIVISION.
000010 FILE             SECTION.
000011 FD SQFILE1 IS GLOBAL.
000012 01
000013     02          PIC X(80).
000014 PROCEDURE       DIVISION.
000015 END PROGRAM      P2277.
```

P2277.cob 12: JMN2277I-S A data-name must be explicitly specified for a level 01 item that is subordinate to a file with a GLOBAL clause. The GLOBAL clause is assumed to be valid.

### Explanation

Specifying the GLOBAL clause in a file description entry makes the name of subordinate record description entry the global name. A global name (the name of an element that has a global attribute) can be referenced in a program with a defined name and all programs directly or indirectly contained in the defined program. The level-number 01 item (the first item of the global attribute area) must have a data-name.

## JMN2288I-S

**The file name in the SAME RECORD AREA clause cannot be specified in an APPLY SAVED-AREA clause or an APPLY MULTICONVERSATION-MODE clause. It is accepted as written.**

### Example

```
[P2288.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2288.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT SQFILE2 ASSIGN TO SYS002.
000008 I-O-CONTROL.
000009     SAME RECORD AREA SQFILE1 SQFILE2
000010     APPLY SAVED-AREA WSVAR ON SQFILE1.
000011 DATA             DIVISION.
000012 FILE             SECTION.
000013 FD SQFILE1.
000014 01 SQF1REC.
000015     02          PIC X(80).
000016 FD SQFILE2.
000017 01 SQF2REC.
000018     02          PIC X(80).
000019 WORKING-STORAGE SECTION.
000020 01 WSVAR          PIC X(80).
000021 PROCEDURE       DIVISION.
000022 END PROGRAM      P2288.
```

P2288.cob 13: JMN2288I-S The file name in the SAME RECORD AREA clause cannot be specified in an APPLY SAVED-AREA clause or an APPLY MULTICONVERSATION-MODE clause. It is accepted as written.

### Explanation

The value of the data item cannot be guaranteed if its storage area is shared. It is accepted as written, but neither the object file nor the executable file is generated.

### JMN2292I-S

**A WRITE statement with an END-OF-PAGE can refer to only one I/O area of a file. The RESERVE clause is ignored and one I/O area is assumed.**

### Example

```
[P2292.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2292.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     RESERVE 10 AREAS.
000008 I-O-CONTROL.
000009 DATA            DIVISION.
000010 FILE             SECTION.
000011 FD SQFILE1 .
000012 01 SQF1REC.
000013 02              PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE       DIVISION.
000016     PERFORM WITH NO LIMIT
000017     WRITE SQF1REC
000018     AT END-OF-PAGE
000019     DISPLAY "END OF PAGE"
000020     EXIT PERFORM
000021     END-WRITE
000022     END-PERFORM
000023 END PROGRAM      P2292.
```

P2292.cob 11: JMN2292I-S A WRITE statement with an END-OF-PAGE can refer to only one I/O area of a file. The RESERVE clause is ignored and one I/O area is assumed.

### Explanation

Values other than '1' are specified for the RESERVE AREA clause. This compiler analyzes the RESERVE AREA clause, but treats it as a comment.

### JMN2300I-S

**A LABEL RECORD clause with a data-name cannot be specified for a file with an EXTERNAL clause.**

### Example

```
[P2300.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2300.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
```

```

000010 FD SQFILE1 IS EXTERNAL
000011     LABEL RECORD IS LRECL.
000012 01 SQF1REC.
000013 02          PIC X(80).
000014 01 LRECL   PIC X(80).
000015 PROCEDURE  DIVISION.
000016 END PROGRAM P2300.

```

P2300.cob 11: JMN2300I-S A LABEL RECORD clause with a data-name cannot be specified for a file with an EXTERNAL clause.

### Explanation

The LABEL RECORD clause is obsolete. This compiler treats the LABEL RECORD clause as a comment.

## JMN2312I-S

**The @1@ clause cannot be specified for the data-item specified in the LABEL RECORD clause, or for its subordinate item.**

### Parameter Explanation

@1@ : CHARACTER TYPE or PRINTING POSITION.

### Example

```

[P2312.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2312.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1
000011     LABEL RECORD LVREC.
000012 01 SQF1REC.
000013 02          PIC X(80).
000014 01 LVREC.
000015 02          PIC N(40) CHARACTER TYPE MODE-1.
000016 PROCEDURE      DIVISION.
000017 END PROGRAM     P2312.

```

P2312.cob 15: JMN2312I-S The CHARACTER TYPE clause cannot be specified for the data-item specified in the LABEL RECORD clause, or for its subordinate item.

### Explanation

The LABEL RECORD clause is obsolete. This compiler treats the LABEL RECORD clause as a comment.

## JMN2316I-I

**(CONF) A RECORD CONTAINS clause containing an integer without reserved word TO cannot be specified for a presentation file.**

### Example

```

[P2316.cob]
000001 @OPTIONS CONF(74)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P2316.
000004 ENVIRONMENT     DIVISION.
000005 INPUT-OUTPUT    SECTION.
000006 FILE-CONTROL.

```

```

000007     SELECT PRFILE1 ASSIGN TO GS-SYS001
000008         SYMBOLIC DESTINATION IS "DSP" .
000009 DATA             DIVISION.
000010 FILE              SECTION.
000011 FD PRFILE1
000012         RECORD CONTAINS 80 .
000013 01 PRF1REC .
000014 02                PIC X(80) .
000015 PROCEDURE         DIVISION.
000016 END PROGRAM      P2316 .

```

P2316.cob 12: JMN2316I-I (CONF) A RECORD CONTAINS clause containing an integer without reserved word TO cannot be specified for a presentation file.

## JMN2317I-W

**A RECORD CONTAINS clause containing an integer without reserved word TO cannot be specified for a presentation file. The RECORD clause is ignored.**

### Example

```

[P2317.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2317.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT PRFILE1 ASSIGN TO GS-SYS001
000007         SYMBOLIC DESTINATION IS "DSP" .
000008 DATA             DIVISION.
000009 FILE              SECTION.
000010 FD PRFILE1
000011         RECORD CONTAINS 80 .
000012 01 PRF1REC .
000013 02                PIC X(80) .
000014 PROCEDURE         DIVISION.
000015 END PROGRAM      P2317 .

```

P2317.cob 11: JMN2317I-W A RECORD CONTAINS clause containing an integer without reserved word TO cannot be specified for a presentation file. The RECORD clause is ignored.

## JMN2319I-S

**The RECORD DEPENDING ON clause cannot be specified for a file that contains a data item with a CHARACTER TYPE clause or PRINTING POSITION clause. The DEPENDING ON phrase is ignored.**

### Example

```

[P2319.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2319.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 DATA             DIVISION.
000008 FILE              SECTION.
000009 FD SQFILE1
000100         RECORD VARYING IN SIZE
000101         DEPENDING ON LRECL.
000102 01 SQF1REC .
000103 02                PIC X(8) .
000104 02                PIC N(10)
000105 CHARACTER TYPE MODE-1 .

```

```

000016 02          PIC X(60) .
000017 WORKING-STORAGE SECTION.
000018 01 LRECL     PIC 9(2) .
000019 PROCEDURE    DIVISION.
000020 END PROGRAM  P2319 .

```

P2319.cob 9: JMN2319I-S The RECORD DEPENDING ON clause cannot be specified for a file that contains a data item with a CHARACTER TYPE clause or PRINTING POSITION clause. The DEPENDING ON phrase is ignored.

#### Explanation

Records whose print information is defined by the CHARACTER TYPE clause or the PRINTING POSITION clause cannot be variable-length.

### JMN2320I-S

**Data-name with CHARACTER TYPE clause or PRINTING POSITION clause is redefined. The print result is not guaranteed.**

#### Explanation

The CHARACTER TYPE clause specifies format of characters when printing. The PRINTING POSITION clause specifies the column to use when printing. When the data item to which these clause are effective has been redefined by another data item, COBOL runtime system cannot get information for the print correctly. As a result, the print result might be not correct.

### JMN2329I-S

**The REDEFINES clause cannot be specified for the data-name in the APPLY SAVED-AREA clause. The REDEFINES clause is ignored.**

#### Example

```

[P2329.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2329 .
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008     APPLY SAVED-AREA RSVAR ON SQFILE1.
000009 DATA            DIVISION.
000010 FILE             SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC.
000013 02              PIC X(80) .
000014 WORKING-STORAGE SECTION.
000015 01 WSVAR         PIC X(80) .
000016 01 RSVAR REDEFINES WSVAR
000017                PIC N(80) .
000018 PROCEDURE        DIVISION.
000019 END PROGRAM       P2329 .

```

P2329.cob 16: JMN2329I-S The REDEFINES clause cannot be specified for the data-name in the APPLY SAVED-AREA clause. The REDEFINES clause is ignored.

### JMN2331I-S

**When a file with a LINAGE clause is an external file, data-name '@1@' must be defined as an external data item.**

#### Parameter Explanation

@1@ : Data name which causes the error.



## Example

```
[P2331.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2331.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1 IS EXTERNAL
000011     LINAGE WPAGE.
000012 01 SQF1REC.
000013 02              PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 01 WPAGE        PIC 9(2).
000016 PROCEDURE       DIVISION.
000017 END PROGRAM      P2331.
```

P2331.cob 11: JMN2331I-S When a file with a LINAGE clause is an external file, data-name 'WPAGE' must be defined as an external data item.

## Explanation

When the file that specifies the LINAGE phrase is shared as an external file, the layout of a logical page also is shared. The data item that stores the number of lines of the page body must be an external attribute.

## JMN2332I-S

**When a file with a LINAGE clause is an external file, data-name '@1@' must be defined as an external data item. The data-name is ignored.**

## Parameter Explanation

@1@ : Data name which causes error.

## Example

```
[P2332.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2332.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1 IS EXTERNAL
000011     LINAGE 66
000012     LINE AT TOP WTOP.
000013 01 SQF1REC.
000014 02              PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WTOP         PIC 9(2).
000017 PROCEDURE       DIVISION.
000018 END PROGRAM      P2332.
```

P2332.cob 12: JMN2332I-S When a file with a LINAGE clause is an external file, data-name 'WTOP' must be defined as an external data item. The data-name is ignored.

## Explanation

When the file that specifies the LINAGE phrase is shared as an external file, the layout of a logical page also is shared. In this case, the data item specified for the FOOTING phrase, the LINES AT TOP phrase or the LINES AT BOTTOM phrase should be an external attribute.

## JMN2333I-S

**The object of the OCCURS DEPENDING ON phrase must be an integer.**

### Example

```
[P2333.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2333.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007   02 WDPEND     PIC S9(3)V99.
000008   02 WOCC       OCCURS 10 DEPENDING ON WDPEND.
000009   03            PIC X.
000010 PROCEDURE       DIVISION.
000011 END PROGRAM     P2333.
```

P2333.cob 8: JMN2333I-S The object of the OCCURS DEPENDING ON phrase must be an integer.

## Explanation

The item that stores the occurrence count must be an integer item.

## JMN2334I-S

**The size of the logical page (the value of the first integer following the word 'LINAGE') must be positive. 1 is assumed.**

### Example

```
[P2334.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2334.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006   SELECT SQFILE1 ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE             SECTION.
000009 FD SQFILE1 IS EXTERNAL
000010   LINAGE 0.
000011 01 SQF1REC.
000012   02            PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE       DIVISION.
000015 END PROGRAM     P2334.
```

P2334.cob 10: JMN2334I-S The size of the logical page (the value of the first integer following the word 'LINAGE') must be positive. 1 is assumed.

## Explanation

The size of logical page is presented by the number of lines, and should be a positive number.

## JMN2335I-S

---

**A SYNCHRONIZED clause cannot be specified for an item that is subordinate to a group item with a VALUE clause. The SYNCHRONIZED clause is assumed to be valid.**

**Example**

```
[P2335.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2335.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP VALUE LOW-VALUE.
000007    02 WELM1     PIC X.
000008    02 WELM2     PIC 1(8) SYNC.
000009 PROCEDURE       DIVISION.
000010 END PROGRAM     P2335.
```

P2335.cob 8: JMN2335I-S A SYNCHRONIZED clause cannot be specified for an item that is subordinate to a group item with a VALUE clause. The SYNCHRONIZED clause is assumed to be valid.

**Explanation**

The compiler does not support the generation of code for the situation in which a group item has a VALUE clause and a subordinate item has a SYNCHRONIZED clause. Either the initial value will not be applied or the slack bytes will not be inserted. Since both are required, the compiler does not generate any code, as either possibility would be wrong.

**JMN2336I-S**

---

**The JUSTIFIED clause cannot be specified for an item that is subordinate to a group item with a VALUE clause. The JUSTIFIED clause is assumed to be valid.**

**Example**

```
[P2336.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2336.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP VALUE LOW-VALUE.
000007    02 WELM1     PIC X(5).
000008    02 WELM2     PIC X(5) JUSTIFIED.
000009    02 WELM3     PIC X(5).
000010 PROCEDURE       DIVISION.
000011 END PROGRAM     P2336.
```

P2336.cob 8: JMN2336I-S The JUSTIFIED clause cannot be specified for an item that is subordinate to a group item with a VALUE clause. The JUSTIFIED clause is assumed to be valid.

**Explanation**

The JUSTIFIED (JUST) clause specifies that as data is transcribed, it is aligned to the rightmost character position of the receiving data item. The JUSTIFIED clause is ignored when an initial value is set to the group item, regardless of the format of the subordinate items.

In this case, neither the object file nor the executable file is generated.

**JMN2337I-S**

---

**The USAGE of an item that is subordinate to a group item with a VALUE clause must be DISPLAY. The USAGE clause is assumed valid.**

## Example

```
[P2337.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2337.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP VALUE LOW-VALUE.
000007 02 WELM1        PIC X(5).
000008 02 WELM2        PIC 9(5) BINARY.
000009 02 WELM3        PIC X(5).
000010 PROCEDURE       DIVISION.
000011 END PROGRAM     P2337.
```

P2337.cob 8: JMN2337I-S The USAGE of an item that is subordinate to a group item with a VALUE clause must be DISPLAY. The USAGE clause is assumed valid.

## Explanation

An initial value of the group item is set considering the entire group item to be one alphanumeric item. If the USAGE of a subordinate elementary item is not DISPLAY, its correct initial value is not set. The specified USAGE is accepted, but neither the object file nor the executable file is generated.

## JMN2338I-S

---

**The value of the integer in the FOOTING phrase must not exceed the size of the logical page. The value of the integer in the FOOTING phrase is assumed to be the same as the size of the logical page.**

## Example

```
[P2338.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2338.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD SQFILE1 IS EXTERNAL
000010                 LINAGE 66
000011                 FOOTING 67.
000012 01 SQF1REC.
000013 02                PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE       DIVISION.
000016 END PROGRAM     P2338.
```

P2338.cob 11: JMN2338I-S The value of the integer in the FOOTING phrase must not exceed the size of the logical page. The value of the integer in the FOOTING phrase is assumed to be the same as the size of the logical page.

## Explanation

The FOOTING phrase specifies the beginning line of the footer. The footer cannot be larger than the page body.

## JMN2341I-S

---

**An @1@ item cannot be defined in the CONSTANT SECTION. It is accepted as written.**

## Parameter Explanation

@1@ : Index data or external floating-point.

## Example

```
[P2341.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2341.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 CONSTANT       SECTION.
000006 01 WIX         INDEX.
000007 PROCEDURE      DIVISION.
000008 END PROGRAM    P2341.
```

P2341.cob 6: JMN2341I-S An index data item cannot be defined in the CONSTANT SECTION. It is accepted as written.

## Explanation

The data description entry declared in the CONSTANT section must have an initial value specified by the VALUE clause. An item that cannot have an initial value cannot be defined in the CONSTANT section.

## JMN2343I-W

**The integer (maximum number of character positions) in the RECORD clause must be equal to or greater than the record length. The RECORD clause is ignored.**

## Example

```
[P2343.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2343.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE           SECTION.
000010 FD SQFILE1
000011     RECORD CONTAINS 30 TO 70.
000012 01 SQF1REC.
000013 02           PIC X(80).
000014 PROCEDURE      DIVISION.
000015 END PROGRAM    P2343.
```

P2343.cob 10: JMN2343I-W The integer (maximum number of character positions) in the RECORD clause must be equal to or greater than the record length. The RECORD clause is ignored.

## Explanation

The RECORD clause specifies the size of the record. Specify a value that is equal to or greater than the actual record length.

## JMN2350I-S

**The block size must be greater than or equal to the record length. The BLOCK CONTAINS clause is ignored.**

## Example

```
[P2350.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P2350.
000004 ENVIRONMENT     DIVISION.
000005 INPUT-OUTPUT    SECTION.
000006 FILE-CONTROL.
000007     SELECT SQFILE1 ASSIGN TO SYS001.
```

```

000008 I-O-CONTROL.
000009 DATA          DIVISION.
000010 FILE           SECTION.
000011 FD SQFILE1
000012          BLOCK CONTAINS 20.
000013 01 SQF1REC.
000014 02           PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 PROCEDURE      DIVISION.
000017 END PROGRAM    P2350.

```

P2350.cob 11: JMN2350I-S The block size must be greater than or equal to the record length. The BLOCK CONTAINS clause is ignored.

### Explanation

This compiler analyzes the BLOCK CONTAINS clause, but treats it as a comment.

### JMN2354I-S

**'@1@' is already defined as a name with the EXTERNAL clause. The EXTERNAL clause is ignored.**

### Parameter Explanation

@1@ : User-defined word which causes error.

### Example

```

[P2354.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2354.
000003 ENVIRONMENT      DIVISION.
000004 DATA             DIVISION.
000005 FILE             SECTION.
000006 WORKING-STORAGE SECTION.
000007 01 EXNM IS EXTERNAL
000008          PIC X(2).
000009 01 EXNM IS EXTERNAL
000010          PIC X(2).
000011 PROCEDURE        DIVISION.
000012 END PROGRAM        P2354.

```

P2354.cob 9: JMN2354I-S 'EXNM' is already defined as a name with the EXTERNAL clause. The EXTERNAL clause is ignored.

### JMN2357I-S

**The end of the area described by the THROUGH phrase data-name must be beyond the end of the area described by the RENAMES clause data-name.**

### Example

```

[P2357.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2357.
000003 ENVIRONMENT      DIVISION.
000004 DATA             DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WELM1 PIC X(20).
000008 02 WELM2 REDEFINES WELM1
000009          PIC X(2).
000010 66 RGRP RENAMES WELM1 THRU WELM2.
000011 PROCEDURE        DIVISION.
000012 END PROGRAM        P2357.

```

P2357.cob 10: JMN2357I-S The end of the area described by the THROUGH phrase data-name must be beyond the end of the area described by the RENAMES clause data-name.

### Explanation

When the THROUGH (THRU) phrase is specified, the RENAMES entry is assumed to be a group item, and the range of this group is named. The data-name that is specified just after the RENAMES clause is the first item of this range. The data-name that is specified just after THROUGH phrase is the last item of this range. The end of the area of the first item must not exceed the area of the last item.

## JMN2358I-W

### The '@1@' clause cannot be specified to a sort-merge file.

#### Parameter Explanation

@1@ : ACCESS MODE, ACTUAL KEY, ALTERNATE RECORD KEY, CONTROL AREA, FILE-LIMIT, FILE STATUS, NOMINAL KEY, PADDING CHARACTER, PROCESSING MODE, RECORD DELIMITER, RECORD KEY, RELATIVE KEY, RESERVE, TRACK-AREA, TRACK-LIMIT, SYMBOLIC KEY, ORGANIZATION, FORMAT, GROUP, SYMBOLIC DESTINATION, DESTINATION-1, DESTINATION-2, DESTINATION-3, SELECTED FUNCTION, UNIT CONTROL, MESSAGE MODE, END KEY, SESSION CONTROL, PROCESSING CONTROL, MESSAGE CLASS, PASSWORD, MESSAGE OWNER, MESSAGE CODE, MESSAGE SEQUENCE, DESTINATION CONTROL, PROCESSING TIME, or LOCK MODE.

#### Example

```
[P2358.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2358.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SRTFILE ASSIGN TO SYS001
000007     RESERVE 20 AREAS.
000008 I-O-CONTROL.
000009 DATA             DIVISION.
000010 FILE             SECTION.
000011 SD SRTFILE.
000012 01 SQF1REC.
000013 02              PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE        DIVISION.
000016 END PROGRAM      P2358.
```

P2358.cob 7: JMN2358I-W The 'RESERVE' clause cannot be specified to a sort-merge file.

### Explanation

The sort-merge file is created internally by the COBOL runtime system. Only the SELECT clause and the ASSIGN clause can be described in the file control entry of the sort-merge file.

## JMN2359I-W

### The signed external decimal item with the BLANK WHEN ZERO clause is assumed to be unsigned.

#### Example

```
[P2359.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2359.
000003 ENVIRONMENT     DIVISION.
000004 DATA             DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNE1           PIC 9(9) DISPLAY
000007                 BLANK WHEN ZERO.  *> OK
000008 01 WNE2           PIC S9(9) DISPLAY
```

```

000009          BLANK WHEN ZERO.  * > ERROR
000010 PROCEDURE  DIVISION.
000011 END PROGRAM  P2359.

```

P2359.cob 9: JMN2359I-W The signed external decimal item with the BLANK WHEN ZERO clause is assumed to be unsigned.

### Explanation

When the BLANK WHEN ZERO clause is specified for the numeric item, it should be an unsigned external decimal item.

## JMN2365I-S

### Data-name '@2@' in the @1@ clause cannot be a pointer data item.

#### Parameter Explanation

@1@ : REDEFINES clause, RENAMES clause, or ASCENDING/DESCENDING KEY IS phrase of OCCURS clause.

@2@ : Data name which causes the error.

#### Example

```

[P2365.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2365.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD SQFILE1
000010     RECORD VARYING IN SIZE
000011     DEPENDING ON LRECL.
000012 01 SQF1REC.
000013 02           PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 01 LRECL      POINTER.
000016 PROCEDURE     DIVISION.
000017 END PROGRAM    P2365.

```

P2365.cob 11: JMN2365I-S Data-name 'LRECL' in the RECORD clause cannot be a pointer data item.

## JMN2366I-S

### The data-name in the BASED ON clause must be a pointer data item, but not a procedure pointer data item.

#### Example

```

[P2366.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2366.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 BASED-STORAGE   SECTION.
000006 01 WBUF1        PIC X(20) BASED ON WNUM.
000007 01 WBUF2        PIC X(20) BASED ON WPX1.
000008 01 WBUF3        PIC X(20) BASED ON WPX2.
000009 WORKING-STORAGE SECTION.
000010 01 WNUM          PIC S9(9).
000011 01 WPX1         POINTER.
000012 01 WPX2         PROCEDURE-POINTER.
000013 PROCEDURE     DIVISION.
000014 END PROGRAM    P2366.

```



P2366.cob 6: JMN2366I-S The data-name in the BASED ON clause must be a pointer data item, but not a procedure pointer data item.

P2366.cob 8: JMN2366I-S The data-name in the BASED ON clause must be a pointer data item, but not a procedure pointer data item.

### Explanation

An implicit pointer qualifier is specified in a data item of the BASED-STORAGE SECTION. The pointer data item used for that pointer qualifier is specified for a data-name of the BASED ON clause.

## JMN2370I-I

**User word '@1@' is defined multiple times.**

### Parameter explanation

@1@ : The user-defined word that is defined multiple times.

### Example

```
[P2370.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2370.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A           PIC X(1).
000007 78 A           VALUE "A" .
000008 PROCEDURE      DIVISION.
000009 END PROGRAM     P2370.
```

P2370.cob 7: JMN2370I-I User word 'A' is defined multiple times.

### Explanation

Following is the cause of this diagnostic message.

- When a named literal (level 78 item) is defined using the same name as one defined previously.

## JMN2372I-S

**The data item specified in LENGTH OF must be completed before the named-constant '@1@' is defined.**

### Parameter Explanation

@1@ : Named-constant name that causes the error.

### Example

```
[P2372.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2372.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 78 WNCT         VALUE LENGTH OF WGRP.
000007 01 WGRP.
000008 02 WELM1        PIC X(10).
000009 02 WELM2        PIC N(10).
000010 PROCEDURE      DIVISION.
000011 END PROGRAM     P2372.
```

P2372.cob 6: JMN2372I-S The data item specified in LENGTH OF must be completed before the named-constant 'WNCT' is defined.

## Explanation

When the data description entry of the named literal (level-number 78) specifies LENGTH, the value of the named literal is the length of the data item that is specified in the LENGTH phrase. The item length of the data specified by LENGTH must be fixed before the declaration of a relating named literal appears.

### JMN2374I-S

---

**The data item specified in LENGTH OF cannot be an internal Boolean item.**

#### Example

```
[P2374.cob]
000001 PROGRAM-ID.      P2374 .
000002 ENVIRONMENT     DIVISION.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 77 X            PIC 1(8) USAGE BIT.
000006 78 V1          VALUE IS LENGTH OF X.
000007 PROCEDURE DIVISION.
000008             EXIT PROGRAM.
```

P2374.cob 6: JMN2374I-S The data item specified in LENGTH OF cannot be an internal Boolean item.

## Explanation

When the data description entry of the named literal (level-number 78) specifies LENGTH, the value of the named literal is the length of the data item that is specified in the LENGTH phrase. A length in units of bits cannot be used as the value of a named literal.

### JMN2375I-S

---

**The @1@ clause is specified for a data item specified in LENGTH OF. The named-constant is ignored.**

#### Parameter Explanation

@1@ : ANY LENGTH or TYPE.

#### Example

```
[C2375.cob]
000001 CLASS-ID.       C2375 .
000002 ENVIRONMENT     DIVISION.
000003 OBJECT.
000004 PROCEDURE       DIVISION.
000005 METHOD-ID.       M2375.
000006 DATA           DIVISION.
000007 LINKAGE         SECTION.
000008 01 X            PIC N ANY LENGTH.
000009 78 V1          VALUE IS
000010             LENGTH OF X.
000011 PROCEDURE DIVISION USING X.
000012             EXIT METHOD.
000013 END METHOD       M2375.
000014 END OBJECT.
000015 END CLASS      C2375.
```

C2375.cob 10: JMN2375I-S The ANY LENGTH clause is specified for a data item specified in LENGTH OF. The named-constant is ignored.

## Explanation

When the data description entry of the named literal (level-number 78) specifies LENGTH, the value of the named literal is the length of the data item that is specified in the LENGTH phrase. The TYPE clause or the ANY LENGTH clause cannot be specified for the data description entry in LENGTH, because their length cannot be fixed.

## JMN2384I-S

**The data-name of the @1@ clause must be defined in a section other than BASED-STORAGE SECTION.**

### Parameter Explanation

@1@ : APPLY REORG-CRITERIA

### Example

```
[P2384.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2384.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IXFILE1 ASSIGN TO I-SYS001
000007     ACCESS MODE   IS RANDOM
000008     NOMINAL KEY   IS WNKEY
000009     RECORD KEY   IS WRKEY.
000010 I-O-CONTROL.
000011     APPLY REORG-CRITERIA TO WRORG ON IXFILE1.
000012 DATA           DIVISION.
000013 BASED-STORAGE   SECTION.
000014 01 WRORG        PIC X(8).
000015 FILE            SECTION.
000016 FD IXFILE1.
000017 01 IXFILE1REC.
000018 02 WRKEY        PIC X(2).
000019 02              PIC X(80).
000020 WORKING-STORAGE SECTION.
000021 01 WNKEY        PIC X(2).
000022 PROCEDURE      DIVISION.
000023 END PROGRAM     P2384.
```

P2384.cob 11: JMN2384I-S The data-name of the APPLY REORG-CRITERIA clause must be defined in a section other than BASED-STORAGE SECTION.

### Explanation

The APPLY REORG-CRITERIA clause is specific to the OSIV-series.

## JMN2385I-S

**Data-name '@2@' of the @1@ clause must be defined in a section other than the BASED-STORAGE SECTION. The data-name is ignored.**

### Parameter Explanation

@1@ : LINAGE or CCCURS.

@2@ : Data name which causes the error

### Example

```
[C23851.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C23851.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT AFILE1 ASSIGN DD1
000007     ORGANIZATION INDEXED
000008     RECORD KEY IS RR1.
000009 DATA DIVISION.
000010 BASED-STORAGE SECTION.
```

```

000011 01 RK1      PIC X(5).
000012 FILE SECTION.
000013 FD AFILE1 .
000014 01 AREC1.
000015 02 RR1      PIC X(2).
000016 WORKING-STORAGE SECTION.
000017 01 WREC1.
000018 02 BREC2 OCCURS 10 DEPENDING ON RK1 PIC X(2).
000019 PROCEDURE DIVISION.
000020 END PROGRAM C23851.

```

C23851.cob 18: JMN23851-S Data-name 'RK1' of the OCCURS clause must be defined in a section other than the BASED-STORAGE SECTION. The data-name is ignored.

### JMN2393I-S ([Win32])

**Data-name '@1@' in the FILE STATUS clause must be defined in the WORKING-STORAGE SECTION or LINKAGE SECTION.**

#### Parameter Explanation

@1@ : Data name which causes error.

#### Example

```

[P2393.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2393.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS SEQUENTIAL
000008     FILE STATUS   IS WFS1.
000009 I-O-CONTROL.
000010 DATA             DIVISION.
000011 FILE             SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02              PIC X(80).
000015 CONSTANT        SECTION.
000016 01 WFS1         PIC X(2) VALUE SPACE.
000017 PROCEDURE       DIVISION.
000018 END PROGRAM      P2393.

```

P2393.cob 8: JMN2393I-S Data-name 'WFS1' in the FILE STATUS clause must be defined in the WORKING-STORAGE SECTION or LINKAGE SECTION.

### JMN2393I-S ([Winx64])

**Data-name '@1@' in the FILE STATUS clause must be defined in the WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION or LINKAGE SECTION.**

#### Parameter Explanation

@1@ : Data name which causes error.

#### Example

```

[P2393.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2393.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.

```

```

000006      SELECT SQFILE1 ASSIGN TO SYS001
000007          ORGANIZATION  IS SEQUENTIAL
000008          FILE STATUS    IS WFS1.
000009 I-O-CONTROL.
000010 DATA          DIVISION.
000011 FILE           SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02           PIC X(80).
000015 CONSTANT      SECTION.
000016 01 WFS1       PIC X(2) VALUE SPACE.
000017 PROCEDURE     DIVISION.
000018 END PROGRAM    P2393.

```

P2393.cob 8: JMN2393I-S Data-name 'WFS1' in the FILE STATUS clause must be defined in the WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION or LINKAGE SECTION.

### JMN2394I-S ([Win32])

**Data-name '@1@' in the FILE STATUS clause must be defined in the WORKING-STORAGE SECTION or LINKAGE SECTION. The data-name is ignored.**

#### Parameter Explanation

@1@ : Data name which causes error.

#### Example

```

[P2394.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2394.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006      SELECT SQFILE1 ASSIGN TO VS-SYS001
000007          ORGANIZATION  IS SEQUENTIAL
000008          FILE STATUS    IS WFS1 WFS2.
000009 I-O-CONTROL.
000010 DATA          DIVISION.
000011 FILE           SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02           PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WFS1       PIC X(2).
000017 CONSTANT      SECTION.
000018 01 WFS2       PIC X(2) VALUE SPACE.
000019 PROCEDURE     DIVISION.
000020 END PROGRAM    P2394.

```

P2394.cob 8: JMN2394I-S Data-name 'WFS2' in the FILE STATUS clause must be defined in the WORKING-STORAGE SECTION or LINKAGE SECTION. The data-name is ignored.

### JMN2394I-S ([Winx64])

**Data-name '@1@' in the FILE STATUS clause must be defined in the WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION or LINKAGE SECTION. The data-name is ignored.**

#### Parameter Explanation

@1@ : Data name which causes error.

## Example

```
[P2394.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2394.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO VS-SYS001
000007     ORGANIZATION IS SEQUENTIAL
000008     FILE STATUS   IS WFS1 WFS2.
000009 I-O-CONTROL.
000010 DATA           DIVISION.
000011 FILE            SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02              PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WFS1         PIC X(2).
000017 CONSTANT       SECTION.
000018 01 WFS2         PIC X(2) VALUE SPACE.
000019 PROCEDURE      DIVISION.
000020 END PROGRAM      P2394.
```

P2394.cob 8: JMN2394I-S Data-name 'WFS2' in the FILE STATUS clause must be defined in the WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION or LINKAGE SECTION. The data-name is ignored.

## JMN2395I-S

**Data-name '@1@' in the FILE STATUS clause must be 2 bytes in length.**

### Parameter Explanation

@1@ : Data name which causes the error.

### Example

```
[P2395.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2395.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS SEQUENTIAL
000008     FILE STATUS   IS WFS1.
000009 I-O-CONTROL.
000010 DATA           DIVISION.
000011 FILE            SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02              PIC X(80).
000015 LINKAGE        SECTION.
000016 01 WFS1         PIC X(4).
000017 PROCEDURE      DIVISION USING WFS1.
000018 END PROGRAM      P2395.
```

P2395.cob 8: JMN2395I-S Data-name 'WFS1' in the FILE STATUS clause must be 2 bytes in length.

### Explanation

The FILE STATUS clause specifies which data item is to receive the I-O status. The I-O status is a double byte character area provided for indicating the result of an input-output statement.

## JMN2396I-S

**Data-name '@1@' in the FILE STATUS clause must be @2@ bytes in length. The data-name is ignored.**

### Parameter Explanation

@1@ : Data name which causes the error.

@2@ : Integer(data length)

### Example

```
[P2396.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2396.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO VS-SYS001
000007     ORGANIZATION  IS SEQUENTIAL
000008     FILE STATUS    IS WFS1 WFS2.
000009 I-O-CONTROL.
000010 DATA             DIVISION.
000011 FILE              SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02                PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WFS1            PIC X(2).
000017 01 WFS2            PIC X(2).
000018 PROCEDURE        DIVISION.
000019 END PROGRAM        P2396.
```

P2396.cob 8: JMN2396I-S Data-name 'WFS2' in the FILE STATUS clause must be 6 bytes in length. The data-name is ignored.

### Explanation

The second data-name of the FILE-STATUS clause is the data-name for detailed I-O status information. The detailed information of a print file with a FORMAT clause or presentation file is a four byte area. The detailed information of a VSAM organization file is six byte area. (The VSAM organization file is specific to the OSIV-series.)

## JMN2397I-S

**The data-name with the detail information in the FILE STATUS clause can only be specified in the presentation file (organization 'GS') or the print file with the FORMAT clause, sequential file (organization AS or VS), relative file, or indexed file.**

### Example

```
[P2397.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2397.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS SEQUENTIAL
000008     FILE STATUS    IS WFS1 WFS2.
000009 I-O-CONTROL.
000010 DATA             DIVISION.
000011 FILE              SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02                PIC X(80).
000015 WORKING-STORAGE SECTION.
```

```

000016 01 WFS1          PIC X(2).
000017 01 WFS2          PIC X(2).
000018 PROCEDURE        DIVISION.
000019 END PROGRAM      P2397.

```

P2397.cob 8: JMN2397I-S The data-name with the detail information in the FILE STATUS clause can only be specified in the presentation file (organization 'GS') or the print file with the FORMAT clause, sequential file (organization AS or VS), relative file, or indexed file.

### Explanation

The second data-name of the FILE STATUS clause is a data-name for detailed information that can be specified in a particular file.

The file organization AS or VS is specific to the OSIV-series.

## JMN2398I-S

**The data-name or nonnumeric literal of 3 characters must be specified in the SYMBOLIC DESTINATION clause.**

### Example

```

[P2398.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2398.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT PRFILE1 ASSIGN TO GS-SYS001
000007         SYMBOLIC DESTINATION IS "ABCD".
000008 DATA              DIVISION.
000009 FILE                SECTION.
000010 FD PRFILE1.
000011 01 PRF1REC.
000012     02              PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE          DIVISION.
000015 END PROGRAM          P2398.

```

P2398.cob 7: JMN2398I-S The data-name or nonnumeric literal of 3 characters must be specified in the SYMBOLIC DESTINATION clause.

### Explanation

The SYMBOLIC DESTINATION clause specifies the destination type. The destination type specifies to which hardware unit the input-output statement is directed. Each destination type is identified by a 3-character name.

## JMN2399I-S

**Nonnumeric literal @1@ of the SYMBOLIC DESTINATION clause cannot be specified.**

### Parameter Explanation

@1@ : Value of nonnumeric literal which causes error.

### Example

```

[P2399.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2399.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT PRFILE1 ASSIGN TO GS-SYS001
000007         SYMBOLIC DESTINATION IS "ABC".

```



```

000008 DATA          DIVISION.
000009 FILE           SECTION.
000010 FD PRFILE1.
000011 01 PRF1REC.
000012 02             PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE      DIVISION.
000015 END PROGRAM    P2399.

```

P2399.cob 7: JMN2399I-S Nonnumeric literal 'ABC' of the SYMBOLIC DESTINATION clause cannot be specified.

### Explanation

The SYMBOLIC DESTINATION clause specifies the destination type. The destination type specifies to which hardware unit the input-output statement is directed. Each destination type is identified by a 3-character name.

### JMN2400I-S

**If a qualified PAGE-COUNTER or LINE-COUNTER is specified in the SOURCE clause, the PAGE-COUNTER or LINE-COUNTER must be qualified by a unique report-name.**

### Example

```

[P2400.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2400.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPF1E1 ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPF1E1 REPORT REP1.
000010 WORKING-STORAGE SECTION.
000011 REPORT          SECTION.
000012 RD REP1 PAGE    46
000013                HEADING 1
000014                FIRST DETAIL 7
000015                LAST DETAIL 44.
000016 01 TYPE PAGE HEADING.
000017 02 LINE 01 COLUMN 35
000018                PIC S9(6) SOURCE LINE-COUNTER OF REPF1E1.
000019 PROCEDURE       DIVISION.
000020 END PROGRAM        P2400.

```

P2400.cob 19: JMN2400I-S If a qualified PAGE-COUNTER or LINE-COUNTER is specified in the SOURCE clause, the PAGE-COUNTER or LINE-COUNTER must be qualified by a unique report-name.

### Explanation

PAGE-COUNTER and LINE-COUNTER are special registers used with the Report Writer module. These special registers are generated for each report file. PAGE-COUNTER and LINE-COUNTER are qualified with a report-name - a name that follows the level indicator RD.

### JMN2401I-S

**The identifier in the SOURCE clause is undefined.**

### Example

```

[P2401.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2401.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.

```

```

000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA          DIVISION.
000008 FILE           SECTION.
000009 FD REPFIL REPORT REP1.
000010 WORKING-STORAGE SECTION.
000011 REPORT        SECTION.
000012 RD REP1 PAGE  46
000013             HEADING 1
000014             FIRST DETAIL  7
000015             LAST DETAIL 44.
000016 01 TYPE PAGE HEADING.
000017 02 LINE 01 COLUMN 35 PIC N(6) SOURCE REP-SOU.
000018 PROCEDURE     DIVISION.
000019 END PROGRAM    P2401.

```

P2401.cob 17: JMN2401I-S The identifier in the SOURCE clause is undefined.

## JMN2402I-S

**The identifier in the SOURCE clause is not unique.**

### Example

```

[P2402.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2402.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA          DIVISION.
000008 FILE           SECTION.
000009 FD REPFIL REPORT REP1.
000010 WORKING-STORAGE SECTION.
000011 01 REP-SOU      PIC N(6).
000012 01 REP-SOU      PIC X(12).
000013 REPORT        SECTION.
000014 RD REP1 PAGE  46
000015             HEADING 1
000016             FIRST DETAIL  7
000017             LAST DETAIL 44.
000018 01 TYPE PAGE HEADING.
000019 02 LINE 01 COLUMN 35 PIC N(6) SOURCE REP-SOU.
000020 PROCEDURE     DIVISION.
000021 END PROGRAM    P2402.

```

P2402.cob 19: JMN2402I-S The identifier in the SOURCE clause is not unique.

## JMN2403I-S

**The identifier in the SOURCE clause must be a data-name, a PAGE-COUNTER, or a LINE-COUNTER.**

### Example

```

[P2403.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2403.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA          DIVISION.
000008 FILE           SECTION.

```

```

000009 FD REPPFILE REPORT REP1.
000010 WORKING-STORAGE SECTION.
000011 REPORT SECTION.
000012 RD REP1 PAGE 46
000013 HEADING 1
000014 FIRST DETAIL 7
000015 LAST DETAIL 44.
000016 01 TYPE PAGE HEADING.
000017 02 LINE 01 COLUMN 35 PIC N(6) SOURCE LABEL1.
000018 PROCEDURE DIVISION.
000019 LABEL1.
000020 END PROGRAM P2403.

```

P2403.cob 17: JMN2403I-S The identifier in the SOURCE clause must be a data-name, a PAGE-COUNTER, or a LINE-COUNTER.

### Explanation

The SOURCE clause specifies a sending data item that provides values to be transferred to a printable item. A data-name, a special register PAGE-COUNTER, or a special register LINE-COUNTER can be specified in the SOURCE clause.

When the printable line is being created by the report writer control system, an implicit MOVE statement is executed, where the item specified in the SOURCE clause is the source operand.

### JMN2404I-S

**A control data item cannot be specified in the SOURCE clause of a page heading report group or a page footing report group.**

### Example

```

[P2404.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2404.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT REPPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPPFILE REPORT REP1.
000010 WORKING-STORAGE SECTION.
000011 01 WCTL PIC X(5).
000012 REPORT SECTION.
000013 RD REP1 PAGE 46
000014 HEADING 1
000015 FIRST DETAIL 7
000016 LAST DETAIL 44
000017 CONTROL WCTL.
000018 01 TYPE PAGE HEADING.
000019 02 LINE 01 COLUMN 35 PIC X(5) SOURCE WCTL.
000020 PROCEDURE DIVISION.
000021 END PROGRAM P2404.

```

P2404.cob 19: JMN2404I-S A control data item cannot be specified in the SOURCE clause of a page heading report group or a page footing report group.

### JMN2405I-S

**The SUM clause can only be specified in a control footing report group.**

### Example

```

[P2405.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2405.

```

```

000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006      SELECT REPFIL ASSIGN TO SYS001.
000007 DATA             DIVISION.
000008 FILE              SECTION.
000009 FD REPFIL REPORT REP1.
000010 WORKING-STORAGE SECTION.
000011 01 WITM          PIC 9(5).
000012 REPORT           SECTION.
000013 RD REP1 PAGE    46
000014                HEADING 1
000015                FIRST DETAIL 7
000016                LAST DETAIL 44.
000017 01 TYPE PAGE HEADING.
000018    02 LINE 01 COLUMN 35 PIC 9(5) SUM WITM.
000019 PROCEDURE        DIVISION.
000020 END PROGRAM        P2405.

```

P2405.cob 18: JMN2405I-S The SUM clause can only be specified in a control footing report group.

## JMN2406I-S

'@2@' in the @1@ clause is undefined.

### Parameter Explanation

@1@ : RESET, SUM or UPON.

@2@ : Data name which causes the error.

### Example

```

[P2406.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2406.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006      SELECT REPFIL ASSIGN TO SYS001.
000007 DATA             DIVISION.
000008 FILE              SECTION.
000009 FD REPFIL REPORT REP1.
000010 WORKING-STORAGE SECTION.
000011 01 WCTL          PIC X(5).
000012 REPORT           SECTION.
000013 RD REP1 PAGE    46
000014                HEADING 1
000015                FIRST DETAIL 7
000016                LAST DETAIL 44
000017                CONTROL WCTL.
000018 01 TYPE CF WCTL.
000019    02 LINE 43 COLUMN 35 PIC 9(5) SUM WITM.
000020 PROCEDURE        DIVISION.
000021 END PROGRAM        P2406.

```

P2406.cob 19: JMN2406I-S 'WITM' in the SUM clause is undefined.

## JMN2407I-S

'@2@' in the @1@ clause is not unique.

### Parameter Explanation

@1@ : RESET, SUM or UPON.

@2@ : Data name which causes the error.

### Example

```
[P2407.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2407.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD REPFIL REPORT REP1.
000010 WORKING-STORAGE SECTION.
000011 01 WCTL          PIC X(5).
000012 01 WITM         PIC X(5).
000013 01 WITM         PIC X(5).
000014 REPORT           SECTION.
000015 RD REP1 PAGE    46
000016     HEADING 1
000017     FIRST DETAIL 7
000018     LAST DETAIL 44
000019     CONTROL WCTL.
000020 01 TYPE CF WCTL.
000021     02 LINE 43 COLUMN 35 PIC 9(5) SUM WITM.
000022 PROCEDURE        DIVISION.
000023 END PROGRAM      P2407.
```

P2407.cob 21: JMN2407I-S 'WITM' in the SUM clause is not unique.

### JMN2408I-S

**'@2@' in the @1@ clause must be a data-name.**

#### Parameter Explanation

@1@ : RESET, SUM or UPON.

@2@ : Data name which causes the error.

### Example

```
[P2408.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2408.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD REPFIL REPORT REP1.
000010 WORKING-STORAGE SECTION.
000011 01 WCTL          PIC X(5).
000012 REPORT           SECTION.
000013 RD REP1 PAGE    46
000014     HEADING 1
000015     FIRST DETAIL 7
000016     LAST DETAIL 44
000017     CONTROL WCTL.
000018 01 TYPE CF WCTL.
000019     02 LINE 43 COLUMN 35 PIC 9(5) SUM REP1.
000020 PROCEDURE        DIVISION.
```

```
000021 LABEL1.  
000022 END PROGRAM P2408.
```

P2408.cob 19: JMN2408I-S 'REP1' in the SUM clause must be a data-name.

## JMN2409I-S

**Report-name '@1@' in the REPORT clause is already specified in another file. The report-name is ignored.**

### Parameter Explanation

@1@ : Report-name which causes the error.

### Example

```
[P2409.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. P2409.  
000003 ENVIRONMENT DIVISION.  
000004 INPUT-OUTPUT SECTION.  
000005 FILE-CONTROL.  
000006 SELECT REPF1E1 ASSIGN TO SYS001.  
000007 SELECT REPF1E2 ASSIGN TO SYS001.  
000008 DATA DIVISION.  
000009 FILE SECTION.  
000010 FD REPF1E1 REPORT REP1.  
000011 FD REPF1E2 REPORT REP1.  
000012 WORKING-STORAGE SECTION.  
000013 01 WCTL PIC X(5).  
000014 REPORT SECTION.  
000015 RD REP1 PAGE 46  
000016 HEADING 1  
000017 FIRST DETAIL 7  
000018 CONTROL WCTL.  
000019 01 TYPE PAGE HEADING.  
000020 02 LINE 01 COLUMN 35 PIC N(6) VALUE SPACE.  
000021 PROCEDURE DIVISION.  
000022 LABEL1.  
000023 END PROGRAM P2409.
```

P2409.cob 11: JMN2409I-S Report-name 'REP1' in the REPORT clause is already specified in another file. The report-name is ignored.

## JMN2410I-S

**Report-name '@1@' in the REPORT clause is already specified in this clause. The report-name is ignored.**

### Parameter Explanation

@1@ : Report-name which causes the error.

### Example

```
[P2410.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. P2410.  
000003 ENVIRONMENT DIVISION.  
000004 INPUT-OUTPUT SECTION.  
000005 FILE-CONTROL.  
000006 SELECT REPF1E1 ASSIGN TO SYS001.  
000007 DATA DIVISION.  
000008 FILE SECTION.  
000009 FD REPF1E1 REPORT REP1 REP1.  
000010 WORKING-STORAGE SECTION.  
000011 01 WCTL PIC X(5).  
000012 REPORT SECTION.
```

```

000013 RD REP1 PAGE 46
000014          HEADING 1
000015          FIRST DETAIL 7
000016          CONTROL WCTL.
000017 01 TYPE PAGE HEADING.
000018 02 LINE 01 COLUMN 35 PIC N(6) VALUE SPACE.
000019 PROCEDURE DIVISION.
000020 LABEL1.
000021 END PROGRAM P2410.

```

P2410.cob 9: JMN2410I-S Report-name 'REP1' in the REPORT clause is already specified in this clause. The report-name is ignored.

## JMN2411I-S

**The report-name in the report description entry is not specified in the REPORT clause. The report description entry and the report group description entry are ignored.**

### Example

```

[P2411.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2411.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 WCTL PIC X(5).
000009 REPORT SECTION.
000010 RD REP1 PAGE 46
000011          HEADING 1
000012          FIRST DETAIL 7
000013          CONTROL WCTL.
000014 01 TYPE PAGE HEADING.
000015 02 LINE 01 COLUMN 35 PIC N(6) VALUE SPACE.
000016 PROCEDURE DIVISION.
000017 LABEL1.
000018 END PROGRAM P2411.

```

P2411.cob 10: JMN2411I-S The report-name in the report description entry is not specified in the REPORT clause. The report description entry and the report group description entry are ignored.

### Explanation

The report-name (the name following level indicator RD of the report description entry) must be specified for the REPORT clause of the file description entry that corresponds to the report file.

## JMN2412I-S

**Identifier '@1@' in the SUM clause must be a numeric item. The identifier is ignored.**

### Parameter Explanation

@1@ : Data name which causes the error.

### Example

```

[P2412.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2412.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006          SELECT REPF1 ASSIGN TO SYS001.
000007 DATA DIVISION.

```

```

000008 FILE SECTION.
000009 FD REPFIL REPORT REP1.
000010 WORKING-STORAGE SECTION.
000011 01 WCTL PIC X(5).
000012 REPORT SECTION.
000013 RD REP1 PAGE 46
000014 HEADING 1
000015 FIRST DETAIL 7
000016 LAST DETAIL 44
000017 CONTROL WCTL.
000018 01 TYPE CF WCTL.
000019 02 LINE 43 COLUMN 35 PIC 9(5) SUM WCTL.
000020 PROCEDURE DIVISION.
000021 END PROGRAM P2412.

```

P2412.cob 19: JMN2412I-S Identifier 'WCTL' in the SUM clause must be a numeric item. The identifier is ignored.

### Explanation

The identifier specified following the SUM clause is a target data item to be summed. These values are added to the sum counter which is a signed numeric data item that the compiler generates.

### JMN2413I-S

**If UPON is specified in the SUM clause, identifier '@1@' in the SUM clause must not be a data-name in the REPORT SECTION. The identifier is ignored.**

### Parameter Explanation

@1@ : Data name which causes the error.

### Example

```

[P2413.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2413.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD REPFIL
000011 REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD PIC 9(2).
000014 REPORT SECTION.
000015 RD REP1 PAGE 66
000016 CONTROL CTLD.
000017 01 TYPE DE.
000018 02 LINE PLUS 1.
000019 03 TARGET COLUMN 10
000020 PIC S9(4) SOURCE CTLD.
000021 01 TYPE CF CTLD.
000022 02 PIC S9(4) SUM TARGET UPON CTLD.
000023 PROCEDURE DIVISION.
000024 END PROGRAM P2413.

```

P2413.cob 22: JMN2413I-S If UPON is specified in the SUM clause, identifier 'TARGET' in the SUM clause must not be a data-name in the REPORT SECTION. The identifier is ignored.

### JMN2414I-S



---

**If UPON is not specified in the SUM clause, data-name '@1@' in the REPORT SECTION must be a sum counter. The data-name is ignored.**

**Parameter Explanation**

@1@ : Data name which causes the error.

**Example**

```
[P2414.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2414.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD REPFIL
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD          PIC 9(2).
000014 REPORT          SECTION.
000015 RD REP1 PAGE 66
000016     CONTROL CTLD.
000017 01 TYPE DE.
000018 02 LINE PLUS 1.
000019 03 TARGET COLUMN 10
000020     PIC S9(4) SOURCE CTLD.
000021 01 TYPE CF CTLD.
000022 02              PIC S9(4) SUM TARGET.
000023 PROCEDURE      DIVISION.
000024 END PROGRAM     P2414.
```

P2414.cob 22: JMN2414I-S If UPON is not specified in the SUM clause, data-name 'TARGET' in the REPORT SECTION must be a sum counter. The data-name is ignored.

**JMN2415I-S**

---

**If identifier '@1@' in the SUM clause is a sum counter, it must be in the same report. The identifier is ignored.**

**Parameter Explanation**

@1@ : Data name that causes the error.

**Example**

```
[P2415.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2415.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD REPFIL1
000011     REPORT IS REP1 REP2.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD1          PIC 9(2).
000014 01 CTLD2          PIC 9(2).
000015 REPORT          SECTION.
```

```

000016 RD REP1 PAGE 66
000017     CONTROL CTLD1.
000018 01 TYPE CF CTLD1.
000019 02 TARGET     PIC S9(4) SUM CTLD1.
000020 RD REP2 PAGE 66
000021     CONTROL CTLD2.
000022 01 TYPE CF CTLD2.
000023 02             PIC S9(4) SUM TARGET.
000024 PROCEDURE     DIVISION.
000025 END PROGRAM    P2415.

```

P2415.cob 23: JMN2415I-S If identifier "TARGET" in the SUM clause is a sum counter, it must be in the same report. The identifier is ignored.

## JMN2416I-S

**If identifier '@1@' in the SUM clause is a sum counter, it cannot be a sum counter in a control footing report group of a higher rank level. The identifier is ignored.**

### Parameter Explanation

@1@ : Data name which causes error.

### Example

```

[P2416.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2416.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA             DIVISION.
000009 FILE              SECTION.
000010 FD REPFIL
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD1          PIC 9(2).
000014 01 CTLD2          PIC 9(2).
000015 REPORT           SECTION.
000016 RD REP1 PAGE 66
000017     CONTROL CTLD1 CTLD2.
000018 01 TYPE CF CTLD1.
000019 02 TARGET        PIC S9(4) SUM CTLD1.
000020 01 TYPE CF CTLD2.
000021 02             PIC S9(4) SUM TARGET.
000022 PROCEDURE     DIVISION.
000023 END PROGRAM    P2416.

```

P2416.cob 21: JMN2416I-S If identifier "TARGET" in the SUM clause is a sum counter, it cannot be a sum counter in a control footing report group of a higher rank level. The identifier is ignored.

## JMN2417I-S

**Data-name '@1@' in the UPON phrase must be the name of a detail report group in the same report as the control footing report group in which the SUM clause is specified. The data-name is ignored.**

### Parameter Explanation

@1@ : Data name which causes the error.

## Example

```
[P2417.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2417.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE            SECTION.
000010 FD SQFILE1
000011     REPORT IS REPl.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD          PIC 9(2).
000014 REPORT          SECTION.
000015 RD REPl PAGE 66
000016     CONTROL CTLD.
000017 01 DE-1 TYPE DE.
000018 02 LINE PLUS 1.
000019 03 TARGET COLUMN 10
000020     PIC S9(4) SOURCE CTLD.
000021 01 TYPE CF CTLD.
000022 02             PIC S9(4) SUM CTLD UPON TARGET.
000023 PROCEDURE      DIVISION.
000024 END PROGRAM     P2417.
```

P2417.cob 22: JMN2417I-S Data-name 'TARGET' in the UPON phrase must be the name of a detail report group in the same report as the control footing report group in which the SUM clause is specified. The data-name is ignored.

## JMN2418I-S

**If the identifier in a SOURCE clause is specified in the REPORT SECTION, the identifier must be a PAGE-COUNTER, LINE-COUNTER, or a sum counter in the same report as the data-name in which the SOURCE clause is specified.**

## Example

```
[P2418.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2418.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE            SECTION.
000010 FD SQFILE1
000011     REPORT IS REPl.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD          PIC 9(2).
000014 REPORT          SECTION.
000015 RD REPl PAGE 66
000016     CONTROL CTLD.
000017 01 DE-1 TYPE DE.
000018 02 LINE PLUS 1.
000019 03             COLUMN 10
000020     PIC S9(4) SOURCE TARGET.
000021 01 TYPE CF CTLD.
000022 02 LINE PLUS 1.
000023 03 TARGET COLUMN 5 PIC X(10) VALUE SPACE.
```

```
000024    03 SC1    COLUMN 20 PIC S9(4) SUM CTLD.
000025 PROCEDURE    DIVISION.
000026 END PROGRAM  P2418.
```

P2418.cob 20: JMN2418I-S If the identifier in a SOURCE clause is specified in the REPORT SECTION, the identifier must be a PAGE-COUNTER, LINE-COUNTER, or a sum counter in the same report as the data-name in which the SOURCE clause is specified.

## JMN2420I-S

**The report file must be a sequential file. This report file is ignored.**

### Example

```
[P2420.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2420.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001
000007     ORGANIZATION  IS RELATIVE.
000008 I-O-CONTROL.
000009 DATA             DIVISION.
000010 FILE              SECTION.
000011 FD REPFIL
000012     REPORT IS REP1.
000013 WORKING-STORAGE SECTION.
000014 01 CTLD          PIC 9(2).
000015 REPORT           SECTION.
000016 RD REP1 PAGE 66
000017     CONTROL CTLD.
000018 01 TYPE CF CTLD.
000019 PROCEDURE        DIVISION.
000020 END PROGRAM        P2420.
```

P2420.cob 12: JMN2420I-S The report file must be a sequential file. This report file is ignored.

## JMN2421I-S

**Report-name '@1@' in the REPORT clause is undefined. The report-name is ignored.**

### Parameter Explanation

@1@ : Report-name which causes the error.

### Example

```
[P2421.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2421.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA             DIVISION.
000009 FILE              SECTION.
000010 FD REPFIL
000011     REPORT IS REP2.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD          PIC 9(2).
000014 REPORT           SECTION.
000015 RD REP1 PAGE 66
000016     CONTROL CTLD.
```

```
000017 01 TYPE CF CTLD.
000018 PROCEDURE      DIVISION.
000019 END PROGRAM    P2421.
```

P2421.cob 11: JMN2421I-S Report-name 'REP2' in the REPORT clause is undefined. The report-name is ignored.

### Explanation

The report-name (the name following level indicator RD of the report description entry) must be specified for the REPORT clause of the file description entry that corresponds to the report file.

## JMN2422I-S

**Report-name '@1@' in the REPORT clause is not unique. The report-name is ignored.**

### Parameter Explanation

@1@ : Report-name which causes the error.

### Example

```
[P2422.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2422.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA             DIVISION.
000009 FILE               SECTION.
000010 FD REPFIL
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD           PIC 9(2).
000014 01 REP1          PIC 9(2).
000015 REPORT           SECTION.
000016 RD REP1 PAGE 66
000017     CONTROL CTLD.
000018 01 TYPE CF CTLD.
000019 PROCEDURE        DIVISION.
000020 END PROGRAM        P2422.
```

P2422.cob 11: JMN2422I-S Report-name 'REP1' in the REPORT clause is not unique. The report-name is ignored.

## JMN2423I-S

**'@1@' in the REPORT clause must be a report-name. The name is ignored.**

### Parameter Explanation

@1@ : User-defined word which causes the error.

### Example

```
[P2423.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2423.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA             DIVISION.
000009 FILE               SECTION.
```

```

000010 FD REPPFILE
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD          PIC 9(2).
000014 01 REP1         PIC 9(2).
000015 PROCEDURE       DIVISION.
000016 END PROGRAM     P2423.

```

P2423.cob 11: JMN2423I-S 'REP1' in the REPORT clause must be a report-name. The name is ignored.

### Explanation

The name specified in the REPORT clause should be the same as the report-name (the name following level indicator RD of the report description entry).

## JMN2424I-S

**Control data-name '@1@' in the CONTROL clause is undefined. The control data-name is ignored.**

### Parameter Explanation

@1@ : Data name which causes the error.

### Example

```

[P2424.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2424.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPPFILE ASSIGN TO SYS001.
000007 DATA          DIVISION.
000008 FILE            SECTION.
000009 FD REPPFILE REPORT REP1.
000010 WORKING-STORAGE SECTION.
000011 REPORT          SECTION.
000012 RD REP1 PAGE   46
000013             HEADING 1
000014             FIRST DETAIL 7
000015             LAST DETAIL 44
000016             CONTROL WCTL.
000017 01 TYPE PAGE HEADING.
000018     02 LINE 01 COLUMN 35 PIC X(5) VALUE SPACE.
000019 PROCEDURE       DIVISION.
000020 END PROGRAM     P2424.

```

P2424.cob 16: JMN2424I-S Control data-name 'WCTL' in the CONTROL clause is undefined. The control data-name is ignored.

## JMN2425I-S

**Control data-name '@1@' in the CONTROL clause is not unique. The control data-name is ignored.**

### Parameter Explanation

@1@ : Data name which causes the error.

### Example

```

[P2425.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2425.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.

```

```

000006      SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA          DIVISION.
000009 FILE           SECTION.
000010 FD REPFIL
000011      REPORT IS REPl.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD        PIC S9(9).
000014 01 CTLD        PIC S9(9).
000015 REPORT         SECTION.
000016 RD REPl PAGE 66
000017      CONTROL CTLD.
000018 01 TYPE DE.
000019 PROCEDURE      DIVISION.
000020 END PROGRAM     P2425.

```

P2425.cob 17: JMN2425I-S Control data-name 'CTLD' in the CONTROL clause is not unique. The control data-name is ignored.

## JMN2426I-S

**Control data-name '@1@' in the CONTROL clause must not be a variable length item. The control data-name is ignored.**

### Parameter Explanation

@1@ : Data name which causes the error.

### Example

```

[P2426.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2426.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006      SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA          DIVISION.
000009 FILE           SECTION.
000010 FD REPFIL
000011      REPORT IS REPl.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD.
000014 02 WDPEND       PIC S9(2).
000015 02 WOCC         OCCURS 10 DEPENDING ON WDPEND
000016                PIC X.
000017 REPORT         SECTION.
000018 RD REPl PAGE 66
000019      CONTROL CTLD.
000020 01 TYPE DE.
000021 PROCEDURE      DIVISION.
000022 END PROGRAM     P2426.

```

P2426.cob 19: JMN2426I-S Control data-name 'CTLD' in the CONTROL clause must not be a variable length item. The control data-name is ignored.

### Explanation

The data description entry for the control data item (the data item specified for the CONTROL clause) cannot be an item that specifies the OCCURS clause with DEPENDING phrase or an item that contains it.

## JMN2427I-S

**Control data-name '@1@' in the CONTROL clause must not be an item using subscript. The control data-name is ignored.**

#### Parameter Explanation

@1@ : Data name which causes the error.

#### Example

```
[P2427.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2427.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD REPFIL
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 .
000014     02 CTLD OCCURS 10
000015         PIC X.
000016 REPORT SECTION.
000017 RD REP1 PAGE 66
000018     CONTROL CTLD.
000019 01 TYPE DE.
000020 PROCEDURE DIVISION.
000021 END PROGRAM P2427.
```

P2427.cob 18: JMN2427I-S Control data-name 'CTLD' in the CONTROL clause must not be an item using subscript. The control data-name is ignored.

#### Explanation

The data description entry for the control data item (the data item specified for the CONTROL clause) cannot be an item that specifies the OCCURS clause or a subordinate item.

### JMN2428I-S

**Control data-name '@1@' in the CONTROL clause is already specified in this clause. The duplicate control data-name is ignored.**

#### Parameter Explanation

@1@ : Data name which causes the error.

#### Example

```
[P2428.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2428.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD REPFIL
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD1 PIC 9.
```



```

000014 01 CTLD2          PIC 9.
000015 01 CTLD3          PIC 9.
000016 REPORT           SECTION.
000017 RD REP1 PAGE 66
000018             CONTROL CTLD1 CTLD2 CTLD1.
000019 01 TYPE DE.
000020 PROCEDURE         DIVISION.
000021 END PROGRAM      P2428.

```

P2428.cob 18: JMN2428I-S Control data-name 'CTLD1' in the CONTROL clause is already specified in this clause. The duplicate control data-name is ignored.

## JMN2429I-S

**Control data-name '@1@' in the CONTROL clause must not be defined in the REPORT SECTION. The control data-name is ignored.**

### Parameter Explanation

@1@ : Data name which causes the error.

### Example

```

[P2429.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2429.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA             DIVISION.
000009 FILE              SECTION.
000010 FD REPFIL
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 REPORT            SECTION.
000014 RD REP1 PAGE 66
000015             CONTROL CTLD.
000016 01 TYPE DE.
000017 02 LINE PLUS 1.
000018 03 CTLD COLUMN 10 PIC X VALUE SPACE.
000019 PROCEDURE         DIVISION.
000020 END PROGRAM         P2429.

```

P2429.cob 15: JMN2429I-S Control data-name 'CTLD' in the CONTROL clause must not be defined in the REPORT SECTION. The control data-name is ignored.

## JMN2430I-S

**NEXT PAGE can only be specified in the first LINE clause of the report group. NEXT PAGE is ignored.**

### Example

```

[P2430.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2430.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA             DIVISION.
000008 FILE              SECTION.
000009 FD REPFIL

```

```

000010      REPORT IS REPl.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1          PIC X(10).
000013 01 WSO2          PIC X(10).
000014 REPORT          SECTION.
000015 RD REPl PAGE 66.
000016 01 TYPE DE.
000017   02 LINE 8.
000018     03 COLUMN 10 PIC X(10) SOURCE WSO1.
000019   02 LINE 10 NEXT PAGE.
000020     03 COLUMN 10 PIC X(10) SOURCE WSO2.
000021 PROCEDURE        DIVISION.
000022 END PROGRAM      P2430.

```

P2430.cob 19: JMN2430I-S NEXT PAGE can only be specified in the first LINE clause of the report group. NEXT PAGE is ignored.

## JMN2431I-S

**The LINE clause cannot be specified in a subordinate item of a group item with a LINE clause. Compilation continues.**

### Example

```

[P2431.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2431.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006   SELECT REPFIL ASSIGN TO SYS001.
000007 DATA             DIVISION.
000008 FILE              SECTION.
000009 FD REPFIL
000010   REPORT IS REPl.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1          PIC X(10).
000013 01 WSO2          PIC X(10).
000014 REPORT          SECTION.
000015 RD REPl PAGE 66.
000016 01 TYPE DE.
000017   02 LINE 8.
000018     03 LINE 9
000019     COLUMN 10 PIC X(10) SOURCE WSO1.
000020 PROCEDURE        DIVISION.
000021 END PROGRAM      P2431.

```

P2431.cob 18: JMN2431I-S The LINE clause cannot be specified in a subordinate item of a group item with a LINE clause. Compilation continues.

## JMN2432I-S

**If a relative value LINE clause is already specified for a report group, an absolute value LINE clause cannot be specified for that group.**

### Example

```

[P2432.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2432.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006   SELECT REPFIL ASSIGN TO SYS001.
000007 DATA             DIVISION.

```

```

000008 FILE SECTION.
000009 FD REPFIL
000010 REPORT IS REPl.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1 PIC X(10).
000013 01 WSO2 PIC X(10).
000014 REPORT SECTION.
000015 RD REPl PAGE 66.
000016 01 TYPE DE.
000017 02 LINE PLUS 1.
000018 03 COLUMN 10 PIC X(10) SOURCE WSO1.
000019 02 LINE 10.
000020 03 COLUMN 20 PIC X(10) SOURCE WSO2.
000021 PROCEDURE DIVISION.
000022 END PROGRAM P2432.

```

P2432.cob 19: JMN2432I-S If a relative value LINE clause is already specified for a report group, an absolute value LINE clause cannot be specified for that group.

### Explanation

Within a report group description entry, an absolute LINE NUMBER clause must be specified before any relative LINE NUMBER clause can be written.

### JMN2433I-S

**The integers of absolute value LINE clause must be specified in ascending order.**

### Example

```

[P2433.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2433.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT REPFIL ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFIL
000010 REPORT IS REPl.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1 PIC X(10).
000013 01 WSO2 PIC X(10).
000014 REPORT SECTION.
000015 RD REPl PAGE 66.
000016 01 TYPE DE.
000017 02 LINE 12.
000018 03 COLUMN 10 PIC X(10) SOURCE WSO1.
000019 02 LINE 10.
000020 03 COLUMN 20 PIC X(10) SOURCE WSO2.
000021 PROCEDURE DIVISION.
000022 END PROGRAM P2433.

```

P2433.cob 19: JMN2433I-S The integers of absolute value LINE clause must be specified in ascending order.

### Explanation

The LINE NUMBER clause specifies the line number on the page on which a report group begins. If a report group description entry specifies a series of absolute LINE NUMBER clauses, the integer values specified in the LINE NUMBER clause must be written in ascending order. They do not need to be consecutive.

### JMN2434I-S

---

**Control data-name '@1@' in the CONTROL clause must not be a procedure pointer data-item.**

**Parameter Explanation**

@1@ : Data name which causes the error.

**Example**

```
[P2434.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2434.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFIL REPORT IS REPI.
000010 WORKING-STORAGE SECTION.
000011 01 WPPT         PROCEDURE-POINTER.
000012 01 WDATE       PIC 9(4).
000013 REPORT         SECTION.
000014 RD REPI PAGE 66 HEADING 5
000015                 FIRST DETAIL 6
000016                 LAST  DETAIL 55
000017                 FOOTING      60
000018                 CONTROL WPPT.
000019 01 TYPE CH WPPT.
000020 02              PIC 9(4) SOURCE WDATE.
000021 PROCEDURE      DIVISION.
000022 END PROGRAM     P2434.
```

P2434.cob 18: JMN2434I-S Control data-name 'WPPT' in the CONTROL clause must not be a procedure pointer data-item.

**JMN2435I-S**

---

**If a PAGE clause is not specified in a report description entry, an absolute value LINE clause cannot be specified.**

**Example**

```
[P2435.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2435.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFIL
000010     REPORT IS REPI.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1         PIC X(10).
000013 REPORT         SECTION.
000014 RD REPI.
000015 01 TYPE DE.
000016 02 LINE 10.
000017 03 COLUMN 10 PIC X(10) SOURCE WSO1.
000018 PROCEDURE      DIVISION.
000019 END PROGRAM     P2435.
```

P2435.cob 16: JMN2435I-S If a PAGE clause is not specified in a report description entry, an absolute value LINE clause cannot be specified.

## Explanation

The vertical layout of a page of a report is determined by the integer values specified in the PAGE clause. An entire report group must be defined to be output on one page. If the page length is not included in the PAGE clause, it cannot be determined whether the value specified by an absolute LINE NUMBER clause is within the page.

## JMN2436I-S

**If a LINE clause is specified in the report heading report group, page heading report group, or page footing report group, NEXT PAGE cannot be specified.**

### Example

```
[P2436.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2436.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD REPFIL
000010     REPORT IS REPl.
000011 WORKING-STORAGE SECTION.
000012 01 WS01           PIC X(10).
000013 01 WS02           PIC X(10).
000014 REPORT           SECTION.
000015 RD REPl PAGE 66
000016     HEADING 2
000017     FIRST DETAIL 6.
000018 01 TYPE PH.
000019 02 LINE 2 NEXT PAGE.
000020 03 COLUMN 10 PIC X(10) SOURCE WS01.
000021 PROCEDURE        DIVISION.
000022 END PROGRAM      P2436.
```

P2436.cob 19: JMN2436I-S If a LINE clause is specified in the report heading report group, page heading report group, or page footing report group, NEXT PAGE cannot be specified.

## JMN2437I-S

**The first LINE clause in the page footing report group must be an absolute value LINE clause.**

### Example

```
[P2437.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2437.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD REPFIL
000010     REPORT IS REPl.
000011 WORKING-STORAGE SECTION.
000012 01 WS01           PIC X(10).
000013 01 WS02           PIC X(10).
000014 REPORT           SECTION.
000015 RD REPl PAGE 66
000016     HEADING 2
000017     LAST DETAIL 60.
```

```

000018 01 TYPE PF.
000019 02 LINE PLUS 1.
000020 03 COLUMN 10 PIC X(10) SOURCE WSO1.
000021 PROCEDURE DIVISION.
000022 END PROGRAM P2437.

```

P2437.cob 19: JMN2437I-S The first LINE clause in the page footing report group must be an absolute value LINE clause.

## JMN2438I-S

**A report with a CODE clause and a report without a CODE clause cannot be specified together for the same report file. Compilation continues.**

### Example

```

[P2438.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2438.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT REPFIL ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFIL
000010 REPORT IS REP1 REP2.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1 PIC X(10).
000013 01 WSO2 PIC X(10).
000014 REPORT SECTION.
000015 RD REP1 PAGE 66
000016 CODE "XX".
000017 01 TYPE DE.
000018 02 LINE 12.
000019 03 COLUMN 10 PIC X(10) SOURCE WSO1.
000020 RD REP2 PAGE 66.
000021 01 TYPE DE.
000022 02 LINE 12.
000023 03 COLUMN 10 PIC X(10) SOURCE WSO1.
000024 PROCEDURE DIVISION.
000025 END PROGRAM P2438.

```

P2438.cob 20: JMN2438I-S A report with a CODE clause and a report without a CODE clause cannot be specified together for the same report file. Compilation continues.

### Explanation

If the CODE clause is specified, the literal specified in this clause is automatically appended to the first two characters of each print line of the report. If the CODE clause is specified for one report of a report description entry, it must be specified for all other reports, if any, of the same report description entry.

## JMN2439I-S

**If a PAGE clause is not specified in a report description entry, a NEXT GROUP clause must be specified using a relative value format.**

### Example

```

[P2439.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2439.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.

```

```

000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA          DIVISION.
000008 FILE           SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1         PIC X(10).
000013 01 WSO2         PIC X(10).
000014 REPORT         SECTION.
000015 RD REP1.
000016 01 TYPE DE     NEXT GROUP 22.
000017  02 LINE PLUS 1.
000018     03 COLUMN 10 PIC X(10) SOURCE WSO1.
000019  02 LINE PLUS 2.
000020     03 COLUMN 20 PIC X(10) SOURCE WSO2.
000021 PROCEDURE     DIVISION.
000022 END PROGRAM    P2439.

```

P2439.cob 16: JMN2439I-S If a PAGE clause is not specified in a report description entry, a NEXT GROUP clause must be specified using a relative value format.

### JMN2440I-S

**If a NEXT GROUP clause is specified in the page footing report group, NEXT PAGE cannot be specified.**

Example

```

[P2440.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2440.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA          DIVISION.
000008 FILE           SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1         PIC X(10).
000013 01 WSO2         PIC X(10).
000014 REPORT         SECTION.
000015 RD REP1 PAGE 66
000016     HEADING 2
000017     LAST DETAIL 60.
000018 01 TYPE PF NEXT GROUP NEXT PAGE.
000019  02 LINE 61.
000020     03 COLUMN 10 PIC X(10) SOURCE WSO1.
000021 PROCEDURE     DIVISION.
000022 END PROGRAM    P2440.

```

P2440.cob 18: JMN2440I-S If a NEXT GROUP clause is specified in the page footing report group, NEXT PAGE cannot be specified.

### JMN2441I-S

**The NEXT GROUP clause cannot be specified in a report footing report group or a page heading report group.**

Example

```

[P2441.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2441.
000003 ENVIRONMENT     DIVISION.

```

```

000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT REPPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPPFILE
000010     REPORT IS REPl.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1 PIC X(10).
000013 01 WSO2 PIC X(10).
000014 REPORT SECTION.
000015 RD REPl PAGE 66
000016     HEADING 2
000017     FIRST DETAIL 6.
000018 01 TYPE PH NEXT GROUP PLUS 1.
000019     02 LINE 3.
000020     03 COLUMN 10 PIC X(10) SOURCE WSO1.
000021 PROCEDURE DIVISION.
000022 END PROGRAM P2441.

```

P2441.cob 18: JMN2441I-S The NEXT GROUP clause cannot be specified in a report footing report group or a page heading report group.

## JMN2442I-S

**A report group of particular type (RH, PH, CH FINAL, CF FINAL, RF, PF) can only be specified once in the same report. Compilation continues.**

### Example

```

[P2442.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2442.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT REPPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPPFILE
000010     REPORT IS REPl.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1 PIC X(10).
000013 01 WSO2 PIC X(10).
000014 REPORT SECTION.
000015 RD REPl PAGE 66
000016     HEADING 2
000017     FIRST DETAIL 6.
000018 01 TYPE PH.
000019     02 LINE 2.
000020     03 COLUMN 10 PIC X(10) SOURCE WSO1.
000021 01 TYPE PH.
000022     02 LINE 4.
000023     03 COLUMN 10 PIC X(10) SOURCE WSO1.
000024 PROCEDURE DIVISION.
000025 END PROGRAM P2442.

```

P2442.cob 21: JMN2442I-S A report group of particular type (RH, PH, CH FINAL, CF FINAL, RF, PF) can only be specified once in the same report. Compilation continues.

### Explanation

Only one report heading group (REPORT HEADING(RH)), page heading group (PAGE HEADING(PH)), control heading group with the FINAL phrase specified (CONTROL HEADING(CH) FINAL), control footing group with the FINAL phrase specified



(CONTROL FOOTING(CF) FINAL), page footing group (PAGE FOOTING(PF)), and report footing group (REPORT FOOTING(RF)) can be specified in a report.

## JMN2443I-S

**If a PAGE clause is not specified in the report description entry, the page heading report group and page footing report group cannot be specified. Compilation continues.**

### Example

```
[P2443.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2443.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1          PIC X(10).
000013 01 WSO2          PIC X(10).
000014 REPORT           SECTION.
000015 RD REP1.
000016 01 TYPE PH.
000017     02 LINE PLUS 1.
000018     03 COLUMN 10 PIC X(10) SOURCE WSO1.
000019 PROCEDURE        DIVISION.
000020 END PROGRAM         P2443.
```

P2443.cob 16: JMN2443I-S If a PAGE clause is not specified in the report description entry, the page heading report group and page footing report group cannot be specified. Compilation continues.

## JMN2444I-S

**Control data-name '@1@' of the TYPE clause is undefined.**

### Parameter Explanation

@1@ : Data name which causes the error.

### Example

```
[P2444.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2444.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE              SECTION.
000010 FD REPFIL
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 REPORT           SECTION.
000014 RD REP1 PAGE 66
000015     CONTROL FINAL.
000016 01 TYPE CF CTLD.
000017 PROCEDURE        DIVISION.
000018 END PROGRAM         P2444.
```

P2444.cob 16: JMN2444I-S Control data-name 'CTLD' of the TYPE clause is undefined.

## JMN2445I-S

### Control data-name '@1@' of the TYPE clause is not unique.

#### Parameter Explanation

@1@ : Data name which causes the error.

#### Example

```
[P2445.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2445.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA             DIVISION.
000009 FILE              SECTION.
000010 FD REPFIL
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD          PIC X(1).
000014 01 CTLD          PIC X(2).
000015 REPORT           SECTION.
000016 RD REP1 PAGE 66
000017     CONTROL FINAL.
000018 01 TYPE CF CTLD.
000019 PROCEDURE        DIVISION.
000020 END PROGRAM        P2445.
```

P2445.cob 18: JMN2445I-S Control data-name 'CTLD' of the TYPE clause is not unique.

## JMN2446I-S

### '@1@' specified in the TYPE clause must be a data-name.

#### Parameter Explanation

@1@ : User-defined word which causes the error.

#### Example

```
[P2446.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2446.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA             DIVISION.
000009 FILE              SECTION.
000010 FD REPFIL
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD          PIC X(1).
000014 01 CTLD          PIC X(2).
000015 REPORT           SECTION.
000016 RD REP1 PAGE 66
000017     CONTROL FINAL.
000018 01 TYPE CF REPFIL.
```

```

000019 PROCEDURE      DIVISION.
000020 LABEL01.
000021 END PROGRAM     P2446.

```

P2446.cob 18: JMN2446I-S 'REPFIL' specified in the TYPE clause must be a data-name.

## JMN2447I-S

**If FINAL is not specified in the CONTROL clause, FINAL cannot be specified in the TYPE clause.**

### Example

```

[P2447.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2447.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE              SECTION.
000010 FD REPFIL
000011     REPORT IS REPI.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD          PIC X(1).
000014 REPORT          SECTION.
000015 RD REPI PAGE 66
000016     CONTROL CTLD.
000017 01 TYPE CF FINAL.
000018 PROCEDURE        DIVISION.
000019 LABEL01.
000020 END PROGRAM       P2447.

```

P2447.cob 17: JMN2447I-S If FINAL is not specified in the CONTROL clause, FINAL cannot be specified in the TYPE clause.

## JMN2449I-S

**The positions of printable items have been specified so that they overlap. Compilation continues.**

### Example

```

[P2449.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2449.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD REPFIL
000010     REPORT IS REPI.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1          PIC X(10).
000013 01 WSO2          PIC X(10).
000014 REPORT          SECTION.
000015 RD REPI PAGE 66.
000016 01 TYPE DE.
000017     02 LINE 12.
000018     03 COLUMN 10 PIC X(15) SOURCE WSO1.
000019     03 COLUMN 20 PIC X(10) SOURCE WSO2.
000020 PROCEDURE        DIVISION.
000021 END PROGRAM       P2449.

```

P2449.cob 19: JMN2449I-S The positions of printable items have been specified so that they overlap. Compilation continues.

### Explanation

On the print line, the end column of the previous item exceeds the first column of the following item, causing the columns to overlap. In this case, neither the object file nor the executable file is generated.

## JMN2450I-S

---

**The GROUP INDICATE clause can only be specified in a detail report group.**

### Example

```
[P2450.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2450.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 WS01         PIC X(10).
000013 01 WS02         PIC X(10).
000014 REPORT          SECTION.
000015 RD REP1 PAGE 66
000016     HEADING 2
000017     FIRST DETAIL 6.
000018 01 TYPE PH GROUP INDICATE.
000019     02 LINE 2.
000020     03 COLUMN 10 PIC X(10) SOURCE WS01.
000021 PROCEDURE       DIVISION.
000022 END PROGRAM      P2450.
```

P2450.cob 18: JMN2450I-S The GROUP INDICATE clause can only be specified in a detail report group.

### Explanation

The GROUP INDICATE clause specifies that the printable item is output only for the first detail line in a group, and when a control break or form feed occurs.

## JMN2451I-S

---

**Data-name '@1@' must be subscripted.**

### Parameter Explanation

@1@ : Data name which causes the error.

### Example

```
[P2451.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2451.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
```

```

000011 WORKING-STORAGE SECTION.
000012 01 .
000013 02 WSO1          PIC X(10) OCCURS 10.
000014 REPORT          SECTION.
000015 RD REP1 PAGE 66.
000016 01 TYPE DE.
000017 02 LINE 12.
000018 03 COLUMN 10 PIC X(10) SOURCE WSO1.
000019 PROCEDURE      DIVISION.
000020 END PROGRAM     P2451.

```

P2451.cob 18: JMN2451I-S Data-name 'WSO1' must be subscripted.

### Explanation

Subscripting is used when referencing an individual element of a table. A table is a data description entry with an OCCURS clause.

### JMN2452I-S

**Data-name '@2@' is a subscripted item that cannot be used as a subscript or reference modifier for the @1@ clause. Subscript or reference modifier 1 is assumed.**

### Parameter Explanation

@1@ : SOURCE or SUM.

@2@ : Data name which causes error.

### Example

```

[P2452.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2452.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 .
000013 02 WIX1          PIC 9(10) OCCURS 10.
000014 02 WSO1          PIC X(10) OCCURS 10.
000015 REPORT          SECTION.
000016 RD REP1 PAGE 66.
000017 01 TYPE DE.
000018 02 LINE 12.
000019 03 COLUMN 10 PIC X(10) SOURCE WSO1(WIX1).
000020 PROCEDURE      DIVISION.
000021 END PROGRAM     P2452.

```

P2452.cob 19: JMN2452I-S Data-name 'WIX1' is a subscripted item that cannot be used as a subscript or reference modifier for the SOURCE clause. Subscript or reference modifier 1 is assumed.

### Explanation

The data-name described with a subscript or reference modification of the identifier specified by the SOURCE clause cannot be a data-name of the data description entry with the OCCURS clause or a subordinate data description entry.

### JMN2457I-S

**'@1@' specified in the TYPE clause must be a control data-name.**

## Parameter Explanation

@1@ : User-defined word which causes the error.

## Example

```
[P2457.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2457.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD REPFIL
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD          PIC X(1).
000014 REPORT           SECTION.
000015 RD REP1 PAGE 66
000016     CONTROL FINAL.
000017 01 TYPE CF CTLD.
000018 PROCEDURE        DIVISION.
000019 END PROGRAM       P2457.
```

P2457.cob 17: JMN2457I-S 'CTLD' specified in the TYPE clause must be a control data-name.

## Explanation

The data-name of CONTROL HEADING phrase or CONTROL FOOTING phrase of the TYPE clause must be specified in the CONTROL clause of the report description entry.

## JMN2458I-S

**A control heading report group or a control footing report group can only be specified once in the same control level.**

## Example

```
[P2458.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2458.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD REPFIL
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD          PIC X(1).
000014 REPORT           SECTION.
000015 RD REP1 PAGE 66
000016     CONTROL FINAL CTLD.
000017 01 TYPE CF CTLD.
000018 01 TYPE CF CTLD.
000019 PROCEDURE        DIVISION.
000020 END PROGRAM       P2458.
```

P2458.cob 18: JMN2458I-S A control heading report group or a control footing report group can only be specified once in the same control level.

## JMN2459I-S

**'@1@' in the CONTROL clause must be a data-name. The name is ignored.**

### Parameter Explanation

@1@ : User-defined word which causes the error.

### Example

```
[P2459.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2459.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD REPFIL
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD          PIC X(1).
000014 01 CTLD          PIC X(2).
000015 REPORT          SECTION.
000016 RD REP1 PAGE 66
000017     CONTROL FINAL REP1.
000018 01 TYPE CF FINAL.
000019 PROCEDURE        DIVISION.
000020 LABEL01.
000021 END PROGRAM     P2459.
```

P2459.cob 17: JMN2459I-S 'REP1' in the CONTROL clause must be a data-name. The name is ignored.

## JMN2460I-S

**The integer in the @1@ clause cannot exceed the upper limit provided by the presentation rule. Compilation continues.**

### Parameter Explanation

@1@ : LINE or NEXT GROUP.

### Example

```
[P2460.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2460.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD REPFIL
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD          PIC X(1).
000014 01 CTLD          PIC X(2).
000015 REPORT          SECTION.
```

```

000016 RD REP1 PAGE 66
000017         FIRST DETAIL 10.
000018 01 TYPE DE LINE 9.
000019 02 COLUMN 10 PIC X(20) VALUE SPACE.
000020 PROCEDURE      DIVISION.
000021 END PROGRAM    P2460.

```

P2460.cob 18: JMN2460I-S The integer in the LINE clause cannot exceed the upper limit provided by the presentation rule. Compilation continues.

#### Explanation

An entire report group must be defined to be output on one page.

### JMN2461I-S

**The integer in the @1@ clause cannot be less than the lower limit provided by the presentation rule. Compilation continues.**

#### Parameter Explanation

@1@ : LINE or NEXT GROUP.

#### Example

```

[P2461.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2461.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006         SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA              DIVISION.
000009 FILE                SECTION.
000010 FD REPFIL
000011         REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD             PIC X(1).
000014 01 CTLD             PIC X(2).
000015 REPORT              SECTION.
000016 RD REP1 PAGE 66
000017         LAST DETAIL 60.
000018 01 TYPE DE LINE 65.
000019 02 COLUMN 10 PIC X(20) VALUE SPACE.
000020 PROCEDURE      DIVISION.
000021 END PROGRAM    P2461.

```

P2461.cob 18: JMN2461I-S The integer in the LINE clause cannot be less than the lower limit provided by the presentation rule. Compilation continues.

#### Explanation

An entire report group must be defined to be output on one page.

### JMN2462I-S

**The word '@2@' in the @1@ clause is invalid. It is ignored, and the compiler skips to the next valid identifier, clause, paragraph, section or division.**

#### Parameter Explanation

@1@ : SOURCE or SUM.

@2@ : Invalid word.



## Example

```
[P2462.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2462.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1         PIC X(10).
000013 01 WSO2         PIC X(10).
000014 REPORT          SECTION.
000015 RD REP1 PAGE 66.
000016 01 TYPE DE.
000017  02 LINE 12.
000018  03 COLUMN 10 PIC X(10) SOURCE WSO1(1:5) WSO2.
000019 PROCEDURE       DIVISION.
000020 END PROGRAM      P2462.
```

P2462.cob 18: JMN2462I-S The word 'WSO2' in the SOURCE clause is invalid. It is ignored, and the compiler skips to the next valid identifier, clause, paragraph, section or division.

## JMN2463I-S

**Invalid word '@1@' appeared in an identifier of the SOURCE clause. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.**

### Parameter Explanation

@1@ : Invalid word.

## Example

```
[P2463.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2463.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1         PIC X(10).
000013 01 WSO2         PIC X(10).
000014 REPORT          SECTION.
000015 RD REP1 PAGE 66.
000016 01 TYPE DE.
000017  02 LINE 12.
000018  03 COLUMN 10 PIC X(10) SOURCE WSO1 WSO2.
000019 PROCEDURE       DIVISION.
000020 END PROGRAM      P2463.
```

P2463.cob 18: JMN2463I-S Invalid word 'WSO2' appeared in an identifier of the SOURCE clause. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.

## JMN2464I-S

**Invalid word '@1@' appeared in an identifier of the SUM clause. It is ignored, and the compiler skips to the next valid identifier, clause, paragraph, section or division.**

### Parameter Explanation

@1@ : Invalid word.

### Example

```
[P2464.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2464.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE            SECTION.
000010 FD SQFILE1
000011     REPORT IS REPl.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD         PIC 9(2).
000014 REPORT          SECTION.
000015 RD REPl PAGE 66
000016     CONTROL CTLD.
000017 01 DE-1 TYPE DE.
000018 02 LINE PLUS 1.
000019 03 TARGET COLUMN 10
000020     PIC S9(4) SOURCE CTLD.
000021 01 TYPE CF CTLD.
000022 02             PIC S9(4) SUM CTLD "CTLD".
000023 PROCEDURE      DIVISION.
000024 END PROGRAM     P2464.
```

P2464.cob 22: JMN2464I-S Invalid word "CTLD" appeared in an identifier of the SUM clause. It is ignored, and the compiler skips to the next valid identifier, clause, paragraph, section or division.

## JMN2465I-S

**A subscript cannot be specified in identifier '@1@' in the SUM clause. The subscript is ignored.**

### Parameter Explanation

@1@ : Data name which causes the error.

### Example

```
[P2465.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2465.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE            SECTION.
000010 FD SQFILE1
000011     REPORT IS REPl.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD         PIC 9(2).
000014 01 WITM        PIC 9(2).
```

```

000015 REPORT          SECTION.
000016 RD REP1 PAGE 66
000017          CONTROL CTLD.
000018 01 TYPE CF CTLD.
000019 02          PIC S9(4) SUM WITM(2).
000020 PROCEDURE      DIVISION.
000021 END PROGRAM    P2465.

```

P2465.cob 19: JMN2465I-S A subscript cannot be specified in identifier 'WITM' in the SUM clause. The subscript is ignored.

## JMN2466I-S

**Invalid word '@2@' appeared in the subscript of the @1@ clause. Subscript 1 is assumed.**

### Parameter Explanation

@1@ : SOURCE or SUM.

@2@ : Invalid word.

### Example

```

[P2466.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2466.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006          SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA              DIVISION.
000009 FILE                SECTION.
000010 FD SQFILE1
000011          REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD            PIC 9(2).
000014 01 .
000015 02 WITM           PIC 9(2) OCCURS 10.
000016 REPORT            SECTION.
000017 RD REP1 PAGE 66
000018          CONTROL CTLD.
000019 01 TYPE CF CTLD.
000020 02          PIC S9(4) SUM WITM(-2).
000021 PROCEDURE          DIVISION.
000022 END PROGRAM        P2466.

```

P2466.cob 20: JMN2466I-S Invalid word '-2' appeared in the subscript of the SUM clause. Subscript 1 is assumed.

## JMN2467I-S

**A right parenthesis is missing in the subscript or reference modifier. A right parenthesis is assumed.**

### Example

```

[P2467.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2467.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006          SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA              DIVISION.
000009 FILE                SECTION.
000010 FD SQFILE1

```

```

000011      REPORT IS REPl.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD          PIC 9(2).
000014 01 .
000015 02 WITM          PIC 9(2) OCCURS 10.
000016 REPORT          SECTION.
000017 RD REPl PAGE 66
000018      CONTROL CTLD.
000019 01 TYPE CF CTLD.
000020 02              PIC S9(4) SUM WITM(2.
000021 PROCEDURE      DIVISION.
000022 END PROGRAM    P2467.

```

P2467.cob 21: JMN2467I-S A right parenthesis is missing in the subscript or reference modifier. A right parenthesis is assumed.

### Explanation

Left and right parentheses must be used to enclose a subscript or reference modifier. Parentheses are always used in pairs. A right parenthesis is assumed, but neither the object file nor the executable file is generated.

## JMN2468I-S

**Invalid word '@1@' appeared in the reference modifier of the SOURCE clause. Reference modifier 1 is assumed.**

### Parameter Explanation

@1@ : Invalid word.

### Example

```

[P2468.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2468.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006      SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFIL
000010      REPORT IS REPl.
000011 WORKING-STORAGE SECTION.
000012 01 WS01          PIC X(10).
000013 01 WS02          PIC X(10).
000014 REPORT          SECTION.
000015 RD REPl PAGE 66.
000016 01 TYPE DE.
000017 02 LINE 12.
000018 03 COLUMN 10 PIC X(10) SOURCE WS01(-1:10).
000019 PROCEDURE      DIVISION.
000020 END PROGRAM      P2468.

```

P2468.cob 18: JMN2468I-S Invalid word '-1' appeared in the reference modifier of the SOURCE clause. Reference modifier 1 is assumed.

### Explanation

A reference modifier references part of a data item or function value. It adds a reference modifier to the data-name or function-identifier. A reference modifier is written as follows:

A left parenthesis is written behind a data-name or function-name, followed by the arithmetic expression that shows the high-order-end-character-position.

A colon(:) is written, followed by an arithmetic expression that shows the length in which the part is referred is described, followed by a right parenthesis.

A separator space can be included immediately before or after the colon. The colon cannot be omitted, although the arithmetic expression that indicates length can be omitted.

## JMN2469I-S

**The reference modifier in the SOURCE clause must have a colon. A colon is assumed.**

### Example

```
[P2469.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2469.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD REPFIL
000010     REPORT IS REPI.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1          PIC X(10).
000013 01 WSO2          PIC X(10).
000014 REPORT           SECTION.
000015 RD REPI PAGE 66.
000016 01 TYPE DE.
000017 02 LINE 12.
000018     03 COLUMN 10 PIC X(10) SOURCE WSO1(1).
000019 PROCEDURE        DIVISION.
000020 END PROGRAM        P2469.
```

P2469.cob 18: JMN2469I-S The reference modifier in the SOURCE clause must have a colon. A colon is assumed.

### Explanation

In a reference modifier, the colon cannot be omitted, although the arithmetic expression that indicates length can be omitted.

## JMN2470I-S

**'@2@' specified as a subscript in the @1@ clause must be a unique data-name or index-name. Subscript 1 is assumed.**

### Parameter Explanation

@1@ : SOURCE or SUM.

@2@ : User-defined word which causes the error.

### Example

```
[P2470.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2470.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD REPFIL
000010     REPORT IS REPI.
000011 WORKING-STORAGE SECTION.
```

```

000012 01 .
000013 02 WSO1 PIC X(10) OCCURS 10.
000014 REPORT SECTION.
000015 RD REP1 PAGE 66.
000016 01 TYPE DE.
000017 02 LINE 12.
000018 03 COLUMN 10 PIC X(10) SOURCE WSO1(WIX).
000019 PROCEDURE DIVISION.
000020 END PROGRAM P2470.

```

P2470.cob 18: JMN2470I-S 'WIX' specified as a subscript in the SOURCE clause must be a unique data-name or index-name. Subscript 1 is assumed.

## JMN2471I-S

**'@1@' specified as a reference modifier in the SOURCE clause must be a unique data-name. Reference modifier 1 is assumed.**

### Parameter Explanation

@1@ : Data name which causes the error.

### Example

```

[P2471.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2471.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT REPPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPPFILE
000010 REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1 PIC X(10).
000013 REPORT SECTION.
000014 RD REP1 PAGE 66.
000015 01 TYPE DE.
000016 02 LINE 12.
000017 03 COLUMN 10 PIC X(10) SOURCE WSO1(1:WLEN).
000018 PROCEDURE DIVISION.
000019 END PROGRAM P2471.

```

P2471.cob 17: JMN2471I-S 'WLEN' specified as a reference modifier in the SOURCE clause must be a unique data-name. Reference modifier 1 is assumed.

## JMN2472I-S

**A RESET clause cannot be specified in a report without a CONTROL clause.**

### Example

```

[P2472.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2472.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA DIVISION.
000009 FILE SECTION.

```

```

000010 FD SQFILE1
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 WITM1         PIC 9(2).
000014 01 WITM2         PIC 9(2).
000015 REPORT          SECTION.
000016 RD REP1 PAGE 66.
000017 01 TYPE CF WITM1.
000018     02           PIC S9(4) SUM WITM1 RESET WITM2.
000019 PROCEDURE        DIVISION.
000020 END PROGRAM      P2472.

```

P2472.cob 18: JMN2472I-S A RESET clause cannot be specified in a report without a CONTROL clause.

### Explanation

The data-name of RESET should be one of the data-names specified in the CONTROL clause of report file. When FINAL is specified in the RESET phrase, FINAL must be written in the CONTROL clause of this report file.

### JMN2473I-S

**If FINAL is specified in the RESET clause, FINAL must also be specified in the CONTROL clause.**

#### Example

```

[P2473.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2473.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA             DIVISION.
000009 FILE              SECTION.
000010 FD SQFILE1
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 WITM1         PIC 9(2).
000014 01 WITM2         PIC 9(2).
000015 REPORT          SECTION.
000016 RD REP1 PAGE 66
000017     CONTROL WITM1.
000018 01 TYPE CF WITM1.
000019     02           PIC S9(4) SUM WITM1 RESET FINAL.
000020 PROCEDURE        DIVISION.
000021 END PROGRAM      P2473.

```

P2473.cob 19: JMN2473I-S If FINAL is specified in the RESET clause, FINAL must also be specified in the CONTROL clause.

### JMN2474I-S

**Data-name '@1@' of the RESET clause must be a control data-name of an equal or higher level control to this clause in the control hierarchy.**

#### Parameter Explanation

@1@ : Data name which causes the error.

#### Example

```

[P2474.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2474.
000003 ENVIRONMENT      DIVISION.

```

```

000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA          DIVISION.
000009 FILE          SECTION.
000010 FD SQFILE1
000011     REPORT IS REPl.
000012 WORKING-STORAGE SECTION.
000013 01 WITM1      PIC 9(2).
000014 01 WITM2      PIC 9(2).
000015 REPORT        SECTION.
000016 RD REP1 PAGE 66
000017     CONTROL WITM1 WITM2.
000018 01 TYPE CF WITM1.
000019 02          PIC S9(4) SUM WITM1 RESET WITM2.
000020 PROCEDURE     DIVISION.
000021 END PROGRAM   P2474.

```

P2474.cob 19: JMN2474I-S Data-name 'WITM2' of the RESET clause must be a control data-name of an equal or higher level control to this clause in the control hierarchy.

## JMN2475I-S

**A TYPE clause is not specified in the 01 level item of the report group description entry. This report group description entry is ignored.**

### Example

```

[P2475.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2475.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA          DIVISION.
000009 FILE          SECTION.
000010 FD SQFILE1
000011     REPORT IS REPl.
000012 WORKING-STORAGE SECTION.
000013 01 WITM1      PIC 9(2).
000014 01 WITM2      PIC 9(2).
000015 REPORT        SECTION.
000016 RD REP1 PAGE 66
000017     CONTROL WITM1 WITM2.
000018 01 .
000019 02          PIC S9(4).
000020 PROCEDURE     DIVISION.
000021 END PROGRAM   P2475.

```

P2475.cob 18: JMN2475I-S A TYPE clause is not specified in the 01 level item of the report group description entry. This report group description entry is ignored.

### Explanation

The first item of a report group description entry must be a level-number 01 item that has the TYPE clause. The TYPE clause specifies the type of the report group and the timing of its processing.

## JMN2476I-S



---

**The NEXT GROUP clause cannot be specified in a report group description entry without a LINE NUMBER clause. Compilation continues.**

**Example**

```
[P2476.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2476.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFIL
000010     REPORT IS REPI.
000011 WORKING-STORAGE SECTION.
000012 01 WS01         PIC X(10).
000013 01 WS02         PIC X(10).
000014 REPORT         SECTION.
000015 RD REPI PAGE 66
000016     HEADING 2
000017     FIRST DETAIL 6.
000018 01 TYPE RH NEXT GROUP PLUS 1.
000019 02 .
000020 03             PIC X(10) SOURCE WS01.
000021 PROCEDURE      DIVISION.
000022 END PROGRAM     P2476.
```

P2476.cob 18: JMN2476I-S The NEXT GROUP clause cannot be specified in a report group description entry without a LINE NUMBER clause. Compilation continues.

**JMN2477I-S**

---

**The USAGE clause specified in the report group description entry must be specified in a group item with a printable item. Compilation continues.**

**Example**

```
[P2477.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2477.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFIL
000010     REPORT IS REPI.
000011 WORKING-STORAGE SECTION.
000012 01 WS01         PIC X(10).
000013 REPORT         SECTION.
000014 RD REPI PAGE 66.
000015 01 TYPE DE LINE 12 DISPLAY.
000016 02             PIC X     SOURCE WS01.
000017 PROCEDURE      DIVISION.
000018 END PROGRAM     P2477.
```

P2477.cob 15: JMN2477I-S The USAGE clause specified in the report group description entry must be specified in a group item with a printable item. Compilation continues.

**JMN2478I-S**

**The COLUMN clause and the PRINTING POSITION clause cannot both be specified the same report group. Compilation continues.**

**Example**

```
[P2478.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2478.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE             SECTION.
000009 FD REPFIL
000010     REPORT IS REPI.
000011 WORKING-STORAGE SECTION.
000012 01 WS01         PIC X(10).
000013 01 WS02         PIC X(10).
000014 REPORT          SECTION.
000015 RD REPI PAGE 66
000016     HEADING 2
000017     FIRST DETAIL 6.
000018 01 TYPE RH.
000019 02 LINE 3.
000020 03 PIC X(10) SOURCE WS01
000021     COLUMN 1.
000022 03 PIC X(10) SOURCE WS01
000023     PRINTING POSITION 12.
000024 PROCEDURE       DIVISION.
000025 END PROGRAM      P2478.
```

P2478.cob 18: JMN2478I-S The COLUMN clause and the PRINTING POSITION clause cannot both be specified the same report group. Compilation continues.

**JMN2480I-S**

**The elementary item of a report group description entry must be specified with either the SOURCE clause, the SUM clause, or the VALUE clause. Compilation continues.**

**Example**

```
[P2480.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2480.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE             SECTION.
000010 FD REPFIL
000011     REPORT IS REPI.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD         PIC X(1).
000014 01 CTLD         PIC X(2).
000015 REPORT          SECTION.
000016 RD REPI PAGE 66
000017     FIRST DETAIL 10.
000018 01 TYPE DE LINE 12.
000019 02 COLUMN 10 PIC X(20).
```

```
000020 PROCEDURE      DIVISION.
000021 END PROGRAM    P2480.
```

P2480.cob 19: JMN2480I-S The elementary item of a report group description entry must be specified with either the SOURCE clause, the SUM clause, or the VALUE clause. Compilation continues.

## JMN2481I-S

**No valid word is specified in a subscript or reference modifier in the identifier of the @1@ clause. Subscript or reference modifier 1 is assumed.**

### Parameter Explanation

@1@ : SOURCE or SUM.

### Example

```
[P2481.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2481.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 .
000013 02 WS01          PIC X(10) OCCURS 10.
000014 REPORT          SECTION.
000015 RD REP1 PAGE 66.
000016 01 TYPE DE.
000017 02 LINE 12.
000018 03 COLUMN 10 PIC X(10) SOURCE WS01().
000019 PROCEDURE      DIVISION.
000020 LB.
000021 END PROGRAM      P2481.
```

P2481.cob 18: JMN2481I-S No valid word is specified in a subscript or reference modifier in the identifier of the SOURCE clause. Subscript or reference modifier 1 is assumed.

## JMN2482I-S

**If a subscript is specified in the identifier of the @1@ clause, an integer must be specified after '+' or '-' following the index-name. 1 is assumed for the integer.**

### Parameter Explanation

@1@ : SOURCE or SUM.

### Example

```
[P2482.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2482.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
```

```

000011 WORKING-STORAGE SECTION.
000012 01 .
000013 02 WS01          PIC X(10) OCCURS 10
000014                      INDEXED BY WIX.
000015 REPORT          SECTION.
000016 RD REP1 PAGE 66.
000017 01 TYPE DE.
000018 02 LINE 12.
000019 03 COLUMN 10 PIC X(10) SOURCE WS01(WIX + ).
000020 PROCEDURE      DIVISION.
000021 LB.
000022 END PROGRAM    P2482.

```

P2482.cob 19: JMN2482I-S If a subscript is specified in the identifier of the SOURCE clause, an integer must be specified after '+' or '-' following the index-name. 1 is assumed for the integer.

### Explanation

If the operator is "+", the value is obtained by adding the value following the operator to the index-name value. If the operator is "-", the value is obtained by subtracting the value following the operator from the index-name value. The value following the operator should be an integer.

## JMN2483I-S

**The elementary item requires a PICTURE clause. PICTURE X is assumed.**

### Example

```

[P2483.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2483.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 .
000013 02 WS01          PIC X(10) OCCURS 10
000014                      INDEXED BY WIX.
000015 REPORT          SECTION.
000016 RD REP1 PAGE 66.
000017 01 TYPE DE.
000018 02 LINE 12.
000019 03 COLUMN 10  SOURCE WS01(WIX).
000020 PROCEDURE      DIVISION.
000021 LB.
000022 END PROGRAM    P2483.

```

P2483.cob 19: JMN2483I-S The elementary item requires a PICTURE clause. PICTURE X is assumed.

### Explanation

A PICTURE clause must be specified in the report group description entry at the third level.

## JMN2484I-S

**The @1@ clause in the REPORT SECTION cannot be specified in a group item or an 01 level elementary item.**

## Parameter Explanation

@1@ : SIGN, JUSTIFIED RIGHT, BLANK WHEN ZERO, VALUE, PRINTING POSITION, COLUMN NUMBER, SOURCE, SUM or GROUP INDICATE.

## Example

```
[P2484.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2484.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1         PIC X(10).
000013 01 WSO2         PIC X(10).
000014 REPORT         SECTION.
000015 RD REP1 PAGE 66
000016     HEADING 2
000017     FIRST DETAIL 6.
000018 01 TYPE RH.
000019     02 LINE 3 PRINTING POSITION 2.
000020     03 COLUMN 1 PIC X(10) SOURCE WSO1.
000021 PROCEDURE       DIVISION.
000022 END PROGRAM      P2484.
```

P2484.cob 19: JMN2484I-S The PRINTING POSITION clause in the REPORT SECTION cannot be specified in a group item or an 01 level elementary item.

## Explanation

A complete report group description entry consists of three levels. This diagnostic message is output when the clause that should be specified in the report group description entry at the third level (printable item) is specified in the report group description entry at another level.

## JMN2485I-S

**The PICTURE clause in the REPORT SECTION cannot be specified in a 01 level item. Compilation continues.**

## Example

```
[P2485.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2485.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 .
000013     02 WSO1         PIC X(10) OCCURS 10
000014                     INDEXED BY WIX.
000015 REPORT         SECTION.
000016 RD REP1 PAGE 66.
```

```

000017 01 TYPE DE LINE 12
000018          PIC X(10).
000019 PROCEDURE  DIVISION.
000020 LB.
000021 END PROGRAM  P2485.

```

P2485.cob 18: JMN2485I-S The PICTURE clause in the REPORT SECTION cannot be specified in a 01 level item. Compilation continues.

### Explanation

The PICTURE clause should be specified in the report group description entry at the third level.

## JMN2486I-S

**The @1@ clause in the REPORT SECTION must be specified in a printable item. Compilation continues.**

### Parameter Explanation

@1@ : VALUE, BLANK WHEN ZERO, JUSTIFIED or GROUP INDICATE.

### Example

```

[P2486.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2486.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE             SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 .
000013 02 WSO1          PIC X(10) OCCURS 10
000014                  INDEXED BY WIX.
000015 REPORT          SECTION.
000016 RD REP1 PAGE 66.
000017 01 TYPE DE LINE 12.
000018 02              VALUE SPACE.
000019 PROCEDURE      DIVISION.
000020 END PROGRAM      P2486.

```

P2486.cob 18: JMN2486I-S The VALUE clause in the REPORT SECTION must be specified in a printable item. Compilation continues.

### Explanation

A complete report group description entry consists of three levels. This diagnostic message is output when the clause that should be specified in the report group description entry at the third level (printable item) is specified in the report group description entry at another level.

## JMN2487I-S

**If the USAGE clause in the REPORT SECTION is specified for an elementary item, it must be printable item. Compilation continues.**

### Example

```

[P2487.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2487.
000003 ENVIRONMENT     DIVISION.

```

```

000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT REPPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPPFILE
000010     REPORT IS REPl.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1 PIC X(10).
000013 REPORT SECTION.
000014 RD REPl PAGE 66.
000015 01 TYPE DE LINE 12.
000016     02 PIC X
000017     DISPLAY SOURCE WSO1.
000018 PROCEDURE DIVISION.
000019 END PROGRAM P2487.

```

P2487.cob 16: JMN2487I-S If the USAGE clause in the REPORT SECTION is specified for an elementary item, it must be printable item. Compilation continues.

### JMN2488I-S

**The COLUMN NUMBER clause can only be specified in an entry with a LINE NUMBER or an entry that is subordinate to an entry with a LINE NUMBER. Compilation continues.**

#### Example

```

[P2488.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2488.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT REPPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPPFILE
000010     REPORT IS REPl.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1 PIC X(10).
000013 01 WSO2 PIC X(10).
000014 REPORT SECTION.
000015 RD REPl PAGE 66
000016     HEADING 2
000017     FIRST DETAIL 6.
000018 01 TYPE RH.
000019     02 .
000020     03 COLUMN 10 PIC X(10) SOURCE WSO1.
000021 PROCEDURE DIVISION.
000022 END PROGRAM P2488.

```

P2488.cob 20: JMN2488I-S The COLUMN NUMBER clause can only be specified in an entry with a LINE NUMBER or an entry that is subordinate to an entry with a LINE NUMBER. Compilation continues.

#### Explanation

The COLUMN NUMBER clause specifies a column on a print line. If the COLUMN NUMBER clause is specified, the entry must also specify the LINE NUMBER clause, or the entry must be subordinate to an entry that specifies a LINE NUMBER clause.

### JMN2489I-S

**A sum counter cannot be specified in a subscript or reference modifier in a SUM clause or a SOURCE clause. Compilation continues.**

## Example

```
[P2489.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2489.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1
000011     REPORT IS REPl.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD         PIC 9(2).
000014 01 .
000015 02 WITM        PIC 9(2) OCCURS 10.
000016 REPORT          SECTION.
000017 RD REPl PAGE 66
000018     CONTROL CTLD.
000019 01 TYPE CF CTLD.
000020 02 WSC1         PIC S9(4) SUM WITM(2).
000021 02 WSC2         PIC S9(4) SUM WITM(WSC1).
000022 PROCEDURE       DIVISION.
000023 END PROGRAM     P2489.
```

P2489.cob 21: JMN2489I-S A sum counter cannot be specified in a subscript or reference modifier in a SUM clause or a SOURCE clause. Compilation continues.

## JMN2491I-S

**The SAME RECORD AREA clause cannot be specified for a report file. Compilation continues.**

## Example

```
[P2491.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2491.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT REPFIL1 ASSIGN TO SYS002.
000008 I-O-CONTROL.
000009     SAME RECORD AREA SQFILE1 REPFIL1.
000010 DATA            DIVISION.
000011 FILE             SECTION.
000012 FD SQFILE1.
000013 01              PIC X(80).
000014 FD REPFIL1
000015     REPORT IS REPl.
000016 WORKING-STORAGE SECTION.
000017 01 CTLD         PIC 9(2).
000018 01 WITM        PIC 9(2).
000019 REPORT          SECTION.
000020 RD REPl PAGE 66
000021     CONTROL CTLD.
000022 01 TYPE CF CTLD.
000023 02 WSC1         PIC 9(4) SUM WITM.
000024 PROCEDURE       DIVISION.
000025 END PROGRAM     P2491.
```

P2491.cob 14: JMN2491I-S The SAME RECORD AREA clause cannot be specified for a report file. Compilation continues.



## JMN2493I-S

If a RECORD clause is specified for a report file, VARYING cannot be specified.

### Example

```
[P2493.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2493.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFIL
000010     RECORD VARYING IN SIZE
000011     DEPENDING ON LRECL
000012     REPORT IS REPl.
000013 WORKING-STORAGE SECTION.
000014 01 LCREL        PIC 9(2).
000015 01 WITM         PIC 9(2).
000016 REPORT          SECTION.
000017 RD REPl PAGE 66.
000018 01 TYPE DE.
000019 02             PIC 9(4) SOURCE WITM.
000020 PROCEDURE        DIVISION.
000021 END PROGRAM      P2493.
```

P2493.cob 10: JMN2493I-S If a RECORD clause is specified for a report file, VARYING cannot be specified.

## JMN2494I-S

RECORD CONTAINS 0 CHARACTERS cannot be specified for a report file.

### Example

```
[P2494.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2494.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT REPFIL ASSIGN TO SYS002.
000008 I-O-CONTROL.
000009 DATA           DIVISION.
000010 FILE            SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC       PIC X(80).
000013 FD REPFIL
000014     RECORD CONTAINS 0 CHARACTERS
000015     REPORT IS REPl.
000016 WORKING-STORAGE SECTION.
000017 01 WFS1          PIC X(2).
000018 REPORT          SECTION.
000019 RD REPl PAGE 66.
000020 01 DE-REC TYPE DE.
000021 02 LINE PLUS 1.
000022 03 COLUMN 1 PIC X(80) SOURCE SQF1REC.
000023 PROCEDURE        DIVISION.
000024 END PROGRAM      P2494.
```

P2494.cob 13: JMN2494I-S RECORD CONTAINS 0 CHARACTERS cannot be specified for a report file.

## JMN2495I-I

The report writer logical record with a CHARACTER TYPE clause or PRINTING POSITION clause is too long. @1@ is used for the record length.

### Parameter Explanation

@1@ : Integer value by which needed length of record is shown.

### Example

```
[P2495.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2495.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE             SECTION.
000009 FD REPFIL
000010     REPORT IS REPl.
000011 WORKING-STORAGE SECTION.
000012 01 WITM          PIC N(20).
000013 REPORT          SECTION.
000014 RD REPl PAGE 66.
000015 01 TYPE DE CHARACTER TYPE MODE-3.
000016 02 LINE PLUS 1.
000017 03 COLUMN 20   PIC N(20) SOURCE WITM.
000018 03 COLUMN 80   PIC N(20) SOURCE WITM.
000019 PROCEDURE      DIVISION.
000020 END PROGRAM      P2495.
```

P2495.cob 9: JMN2495I-I The report writer logical record with a CHARACTER TYPE clause or PRINTING POSITION clause is too long. 139 is used for the record length.

## JMN2496I-S

The value of the COLUMN clause is too large. The length of the report writer logical record is expanded to include the specified item at the specified column.

### Example

```
[P2496.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2496.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE             SECTION.
000009 FD REPFIL
000010     REPORT IS REPl.
000011 WORKING-STORAGE SECTION.
000012 01 WITM          PIC N(1).
000013 REPORT          SECTION.
000014 RD REPl PAGE 66.
000015 01 TYPE DE.
000016 02 LINE PLUS 1.
000017 03 COLUMN 140  PIC N(1) SOURCE WITM.
000018 PROCEDURE      DIVISION.
000019 END PROGRAM      P2496.
```

P2496.cob 17: JMN2496I-S The value of the COLUMN clause is too large. The length of the report writer logical record is expanded to include the specified item at the specified column.

## JMN2497I-S

**The report writer logical record is too long. RECORD CONTAINS @1@ is assumed.**

### Parameter Explanation

@1@ : Integer value by which needed length of record is shown.

### Example

```
[P2497.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2497.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE             SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 WITM          PIC N(20).
000013 REPORT           SECTION.
000014 RD REP1 PAGE 66.
000015 01 TYPE DE.
000016     02 LINE PLUS 1.
000017     03 COLUMN 135 PIC N(20) SOURCE WITM.
000018 PROCEDURE        DIVISION.
000019 END PROGRAM       P2497.
```

P2497.cob 9: JMN2497I-S The report writer logical record is too long. RECORD CONTAINS 174 is assumed.

## JMN2498I-S

**The integer in the NEXT GROUP clause cannot exceed the documented upper limit.**

### Example

```
[P2498.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2498.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE             SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1           PIC X(10).
000013 01 WSO2           PIC X(10).
000014 REPORT           SECTION.
000015 RD REP1 PAGE 66
000016     HEADING 2
000017     FIRST DETAIL 10
000018     LAST DETAIL 60.
000019 01 TYPE DE NEXT GROUP 5.
000020     02 LINE 10.
000021     03 COLUMN 10 PIC X(10) SOURCE WSO1.
```

```
000022 PROCEDURE      DIVISION.
000023 END PROGRAM    P2498.
```

P2498.cob 19: JMN2498I-S The integer in the NEXT GROUP clause cannot exceed the documented upper limit.

#### Explanation

The vertical positioning specified by the NEXT GROUP clause is performed after outputting the report group containing the clause. When the absolute NEXT GROUP clause is specified, the following report group is displayed from that position, using the value of the integer in the NEXT GROUP clause. The value should be the number of lines within the range where the report group is displayed.

### JMN2499I-S

**The integer in the NEXT GROUP clause cannot be less than the documented lower limit.**

#### Example

```
[P2499.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2499.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE             SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 WSO1         PIC X(10).
000013 01 WSO2         PIC X(10).
000014 REPORT         SECTION.
000015 RD REP1 PAGE 66
000016     HEADING 2
000017     FIRST DETAIL 10
000018     LAST DETAIL 60.
000019 01 TYPE DE NEXT GROUP 65.
000020     02 LINE 10.
000021     03 COLUMN 10 PIC X(10) SOURCE WSO1.
000022 PROCEDURE      DIVISION.
000023 END PROGRAM    P2499.
```

P2499.cob 19: JMN2499I-S The integer in the NEXT GROUP clause cannot be less than the documented lower limit.

#### Explanation

The vertical positioning specified by the NEXT GROUP clause is performed after outputting the report group containing the clause. When the absolute NEXT GROUP clause is specified, the following report group is displayed from that position, using the value of the integer of the NEXT GROUP clause. The value should be the number of lines within the range where the report group is displayed.

### JMN2500I-S

**The compiler has encountered a word '@1@' where a statement is expected.**

#### Parameter Explanation

@1@ : Word which causes the error.

#### Example

```
[P2500.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2500.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
```

```

000005 WORKING-STORAGE SECTION.
000006 01 WDA1          PIC X.
000007 01 WDA2          PIC X.
000008 PROCEDURE       DIVISION.
000009*      MOVE
000010          SPACE TO WDA1
000011 END PROGRAM     P2500.

```

P2500.cob 10: JMN2500I-S The compiler has encountered a word 'SPACE' where a statement is expected.

### Explanation

The first word of the statement must be a correct reserved word.

## JMN2501I-S

**'@2@' in the @1@ statement must be @3@.**

### Parameter Explanation

@1@ : Verb of the statement which detects the error.

@2@ : Word which causes the error.

@3@ : Kind of word that can be described.

### Example

```

[P2501.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2501.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WNUM1        PIC 9(4).
000008 02 WNUM2        PIC 9(4).
000009 02 WNUM3        PIC 9(4).
000010 PROCEDURE       DIVISION.
000011      ADD CORR WGRP TO 13.
000012 END PROGRAM     P2501.

```

P2501.cob 11: JMN2501I-S '13' in the ADD statement must be identifier.

### Explanation

This diagnostic message is output when an unexpected word is encountered in a statements. The major cause is:

1. Two or more operands are described where only one operand can be described.
2. A literal is described where the literal cannot be described.
3. The class of literal cannot be specified.
4. An incorrect optional word is specified, or the order is incorrect.

Cause #2 is demonstrated in the sample program above.

## JMN2502I-S

**'@2@' in the @1@ statement must be @3@. '@2@' is ignored.**

### Parameter Explanation

@1@ : Verb of statement that detects the error.

@2@ : Word that causes the error.

@3@ : Kind of word that can be described.

## Example

```
[P2502.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2502.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006
000007 PROCEDURE       DIVISION.
000008     COMPUTE 13 = 12 + 1
000009 END PROGRAM     P2502.
```

P2502.cob 8: JMN2502I-S '13' in the COMPUTE statement must be identifier. '13' is ignored.

## Explanation

This message is output when an unexpected word appears in a statement. The major causes are:

1. There are two or more operands where there should be only one operand.
2. A literal is described where one cannot be described.
3. The class of literal cannot be specified.
4. An incorrect optional word is specified, or the order is incorrect.

Cause #2 is demonstrated in the sample program above.

## JMN2503I-S

---

### User word '@1@' is undefined.

#### Parameter Explanation

@1@ : User-defined word that causes the error.

## Example

```
[P2503.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2503.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE       DIVISION.
000007     DISPLAY A
000008 END PROGRAM     P2503.
```

P2503.cob 7: JMN2503I-S User word 'A' is undefined.

## Explanation

This message is output when the definition of the referred user-defined word (data-name and label-name, etc.) is not found. Even if the user-defined word is defined, this message is output in the following cases:

- The user-defined word does not meet the qualifications for uniqueness of reference.
- The name is not among those allowed for user-defined words.

## JMN2504I-S

---

### User word '@1@' is defined multiple times.

#### Parameter Explanation

@1@ : The user-defined word that is defined multiple times.

## Example

```
[P2504.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2504.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A             PIC X(1).
000007 01 A.
000008 02 B             PIC X(1).
000009 01 C.
000010 02 A.
000011 03 B             PIC X(1).
000012 PROCEDURE      DIVISION.
000013 MOVE SPACE TO A
000014 MOVE SPACE TO B OF A
000015 END PROGRAM     P2504.
```

P2504.cob 13: JMN2504I-S User word 'A' is defined multiple times.

P2504.cob 14: JMN2504I-S User word 'B' is defined multiple times.

## Explanation

This error may occur in the following situations:

- When the compiler finds that there is insufficient qualification for a procedure statement to select one item from a user-defined word that is multiply defined.
- When a named literal (level 78 item) is defined using the same name as one defined earlier.
- In the .NET system:
  - A field or property is declared using a name already defined for a field or property.
  - An external name is the same as the internal name of a data item defined as a PROPERTY.
  - An external name of a LINKAGE SECTION item is the same as another item that has already been defined in the same LINKAGE SECTION.
  - A field inside an ENUM definition is multiply-defined with the same name.
  - When you use ALPHAL(AUTO), names will be matched regardless of the case of the letters.

## JMN2505I-S

---

**'@2@' must be specified in the @1@ statement. '@2@' is assumed.**

### Parameter Explanation

@1@ : Verb of the statement that detects the error.

@2@ : Word that should be specified.

## Example

```
[P2505.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2505.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA            PIC X.
000007 PROCEDURE      DIVISION.
000008 MOVE SPACE WDA
000009 END PROGRAM     P2505.
```

P2505.cob 8: JMN2505I-S 'TO' must be specified in the MOVE statement. 'TO' is assumed.

### Explanation

A statement of COBOL program is made up of reserved words, user-defined words, literals, etc. A reserved word contains a required word and an optional word. A required word is one that must be included. This message is output when the required word is not described.

### JMN2506I-W

**A statement must be specified in a conditional statement or an in-line PERFORM statement. It is accepted as written.**

### Example

```
[P2506.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2506.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE       DIVISION.
000007     PERFORM WITH NO LIMIT
000008     END-PERFORM
000009 END PROGRAM      P2506.
```

P2506.cob 8: JMN2506I-W A statement must be specified in a conditional statement or an in-line PERFORM statement. It is accepted as written.

### JMN2507I-S

**The IF DB-EXCEPTION statement cannot precede a data base operation statement or an IF DB-EXCEPTION statement.**

### Example

```
[P2507.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2507.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE       DIVISION.
000007     IF DB-EXCEPTION IS 10
000008     GO TO END-PROC.
000009 END-PROC.
000010 END PROGRAM      P2507.
```

P2507.cob 7: JMN2507I-S The IF DB-EXCEPTION statement cannot precede a data base operation statement or an IF DB-EXCEPTION statement.

### JMN2508I-W

**NEXT SENTENCE cannot be specified in an IF or SEARCH statement with an explicit scope terminator. It is accepted as written.**

### Example

```
[P2508.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2508.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
```



```

000006 01 WDA          PIC X.
000007 PROCEDURE      DIVISION.
000008     IF WDA = SPACE THEN
000009         NEXT SENTENCE
000010     END-IF
000011 END PROGRAM     P2508.

```

P2508.cob 8: JMN2508I-W NEXT SENTENCE cannot be specified in an IF or SEARCH statement with an explicit scope terminator. It is accepted as written.

### Explanation

The explicit scope terminator for the IF statement or the SEARCH statement is END-IF for the IF statement, and END-SEARCH for the SEARCH statement.

This message is output if NEXT SENTENCE is written in the IF statement or the SEARCH statement with the explicit scope terminator. NEXT SENTENCE or the explicit scope terminator should be deleted.

## JMN2509I-S

**Conditional statement '@1@' is specified where an imperative statement should be specified. The @1@ statement is assumed to be valid.**

### Parameter Explanation

@1@ : Verb of statement which detects error.

### Example

```

[P2509.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2509.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA          PIC X.
000007 PROCEDURE      DIVISION.
000008     PERFORM 10 TIMES
000009         IF WDA = SPACE THEN
000010             DISPLAY "SPACE"
000011     END-PERFORM.
000012 END PROGRAM     P2509.

```

P2509.cob 9: JMN2509I-S Conditional statement 'IF' is specified where an imperative statement should be specified. The IF statement is assumed to be valid.

### Explanation

An imperative statement is one that is categorized as imperative statement, and is a conditional statement that contains an explicit scope terminator. The explicit scope terminator is, for example, END-IF for the IF statement. In general, this message is output if there is another conditional statement without an explicit scope terminator in the scope of a conditional statement. In the sample program, there is an IF statement without an END-IF in the in-line PERFORM statement.

When this message is output, review the relation of the conditional statement and the explicit scope terminator.

## JMN2510I-S

**'@1@' does not correspond. '@1@' is ignored.**

### Parameter Explanation

@1@ : Explicit scope terminator without corresponding verb.

## Example

```
[P2510.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2510.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA          PIC X.
000007 PROCEDURE       DIVISION.
000008     IF WDA = SPACE THEN
000009         EXIT PROGRAM.
000010     END-IF
000011 END PROGRAM     P2510.
```

P2510.cob 10: JMN2510I-S 'END-IF' does not correspond. 'END-IF' is ignored.

## Explanation

An explicit scope terminator is a word in the form of "END-verb", such as END-ADD, that indicates the end of the statement. This message is displayed when there is no statement corresponding to the explicit scope terminator.

Check the following:

- Is there a statement corresponding to the explicit scope terminator?
- Are the statement and the explicit scope terminator a matched pair?
- Does a period (separator) appear in a statement prior to the explicit scope terminator?

## JMN2511I-S

**'@2@' in the @1@ statement must be a mnemonic-name or a function-name. SYSIN or SYSOUT is assumed.**

### Parameter Explanation

@1@ : ACCEPT or DISPLAY.

@2@ : Word which causes error.

## Example

```
[P2511.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2511.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA          PIC X.
000007 01 WOUT        PIC X(20).
000008 PROCEDURE       DIVISION.
000009     DISPLAY WDA UPON WOUT.
000010 END PROGRAM     P2511.
```

P2511.cob 9: JMN2511I-S 'WOUT' in the DISPLAY statement must be a mnemonic-name or a function-name. SYSIN or SYSOUT is assumed.

## Explanation

The mnemonic-name that is specified in a FROM phrase of an ACCEPT statement should be associated with the function-name CONSOLE, SYSIN, ARGUMENT-NUMBER, ARGUMENT-VALUE or ENVIRONMENT-VALUE in the SPECIAL-NAMES paragraph of the ENVIRONMENT DIVISION.

The mnemonic-name that is specified for an UPON phrase of a DISPLAY statement should be associated with the function-name CONSOLE, SYSOUT, SYSERR, SYSPUNCH, ARGUMENT-NUMBER, ENVIRONMENT-NAME or ENVIRONMENT-VALUE in the SPECIAL-NAMES paragraph of the ENVIRONMENT DIVISION.

## JMN2512I-S

**INPUT, OUTPUT, I-O, or EXTEND is missing from the OPEN statement. The compiler skips to the next INPUT, OUTPUT, I-O, or EXTEND.**

### Example

```
[P2512.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2512.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS SEQUENTIAL.
000008 DATA            DIVISION.
000009 FILE              SECTION.
000010 FD SQFILE1.
000011 01 SQF1REC.
000012 02              PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE        DIVISION.
000015     OPEN SQFILE1.
000016 END PROGRAM      P2512.
```

P2512.cob 15: JMN2512I-S INPUT, OUTPUT, I-O, or EXTEND is missing from the OPEN statement. The compiler skips to the next INPUT, OUTPUT, I-O, or EXTEND.

### Explanation

A file can be opened in any of four open modes: input mode, output mode, input-output mode, and extension mode. Specify the open mode when a file is opened using the OPEN statement.

## JMN2513I-S

**Invalid word '@1@' is specified where a file other than a sort-merge file must be specified. Word '@1@' is ignored.**

### Parameter Explanation

@1@ : Word which causes the error.

### Example

```
[P2513.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2513.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS SEQUENTIAL.
000008 DATA            DIVISION.
000009 FILE              SECTION.
000010 FD SQFILE1.
000011 01 SQF1REC.
000012 02              PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE        DIVISION.
000015     OPEN INPUT SQF1REC.
000016 END PROGRAM      P2513.
```

P2513.cob 15: JMN2513I-S Invalid word 'SQF1REC' is specified where a file other than a sort-merge file must be specified. Word 'SQF1REC' is ignored.

## Explanation

The OPEN statement specifies the file-name, and the sort-merge file is created internally by the COBOL runtime system. It is not necessary to open the file using the OPEN statement.

## JMN2514I-S

**The '@3@' option cannot be specified in the '@2@' file with an '@1@'. The option is ignored.**

### Parameter Explanation

@1@ : OUTPUT, EXTEND, I-O or UNIT/REEL.

@2@ : File name that causes the error.

@3@ : REVERSED or REMOVAL.

### Example

```
[P2514.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2514.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS SEQUENTIAL.
000008 DATA             DIVISION.
000009 FILE              SECTION.
000010 FD SQFILE1.
000011 01 SQF1REC.
000012 02              PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE        DIVISION.
000015     OPEN OUTPUT SQFILE1 REVERSED
000016 END PROGRAM      P2514.
```

P2514.cob 15: JMN2514I-S The 'REVERSED' option cannot be specified in the 'SQFILE1' file with an 'OUTPUT'. The option is ignored.

## Explanation

The REVERSED and FOR REMOVAL phrases are obsolete. The compiler analyzes them, but treats them as comments.

## JMN2515I-S

**NO REWIND cannot be specified in the '@2@' file with an '@1@'. NO REWIND is ignored.**

### Parameter Explanation

@1@ : EXTEND or I-O.

@2@ : File name that causes the error.

### Example

```
[P2515.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2515.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS SEQUENTIAL.
000008 DATA             DIVISION.
000009 FILE              SECTION.
```

```

000010 FD SQFILE1.
000011 01 SQF1REC.
000012 02          PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE    DIVISION.
000015     OPEN EXTEND SQFILE1 WITH NO REWIND
000016 END PROGRAM  P2515.

```

P2515.cob 15: JMN2515I-S NO REWIND cannot be specified in the 'SQFILE1' file with an 'EXTEND'. NO REWIND is ignored.

### Explanation

The compiler analyzes the NO REWIND phrase, but treats it as a comment.

## JMN2516I-S

**'@2@' in the @1@ statement must be a file other than a sort-merge file.**

### Parameter Explanation

@1@ : DELETE, SEEK, SET, READ or START.

@2@ : File name that causes the error.

### Example

```

[P2516.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2516.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IXFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS INDEXED
000008     RECORD KEY    IS WRKY1.
000009 I-O-CONTROL.
000010 DATA            DIVISION.
000011 FILE             SECTION.
000012 FD IXFILE1.
000013 01 IXF1REC.
000014 02 WRKY1        PIC X(2).
000015 02              PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 PROCEDURE        DIVISION.
000018     START IXF1REC
000019     KEY IS EQUAL TO WRKY1
000020 END PROGRAM      P2516.

```

P2516.cob 18: JMN2516I-S 'IXF1REC' in the START statement must be a file other than a sort-merge file.

### Explanation

A file-name must be targeted in the operation. The sort-merge file can be referred to only by the MERGE statement, the RELEASE statement, the RETURN statement, and the SORT statement.

## JMN2517I-S

**An invalid word is specified where a procedure-name must be specified in the @1@ statement. The invalid word is ignored.**

### Parameter Explanation

@1@ : GOTO, SORT or MERGE.

## Example

```
[P2517.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2517.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WPROC        PIC X(20).
000007 PROCEDURE       DIVISION.
000008     GO TO WPROC
000009 END PROGRAM     P2517.
```

P2517.cob 8: JMN2517I-S An invalid word is specified where a procedure-name must be specified in the GO TO statement. The invalid word is ignored.

## JMN2518I-S

**'@1@' in the USING phrase must be an identifier, a procedure-name, or a file-name.**

### Parameter Explanation

@1@ : Word that causes the error.

### Example

```
[P2518.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2518.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 RT-ITEM       PIC X.
000007 PROCEDURE       DIVISION.
000008     CALL "SUB2518" USING BY REFERENCE
000009         RETURNING RT-ITEM.
000010 END PROGRAM     P2518.
```

P2518.cob 9: JMN2518I-S 'RETURNING' in the USING phrase must be an identifier, a procedure-name, or a file-name.

## JMN2519I-S

**'@2@' after '@1@' must be a procedure-name.**

@2@ : Word that causes the error.

### Parameter Explanation

@1@ : THRU.

### Example

```
[P2519.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2519.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE       DIVISION.
000007     PERFORM P1 THRU
000008     STOP RUN.
000009 P1.
000010 END PROGRAM     P2519.
```

P2519.cob 8: JMN2519I-S 'STOP' after 'THRU' must be a procedure-name.

## JMN2520I-S

**'@2@' is invalid in a @1@ statement.**

### Parameter Explanation

@1@ : CALL, INITIATE, TERMINATE, SET, ERASE, MODIFY or STORE.

@2@ : Word that causes the error.

### Example

```
[P2520.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2520.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE        DIVISION.
000007     CALL "SUB2520" USING "DATA"
000008 END PROGRAM      P2520.
```

P2520.cob 7: JMN2520I-S "DATA" is invalid in a CALL statement.

## JMN2521I-S

**In the PERFORM statement, the TEST BEFORE or TEST AFTER phrase is incomplete. A 'TEST BEFORE' phrase is assumed.**

### Example

```
[P2521.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2521.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WLOOP         PIC 999.
000007 PROCEDURE        DIVISION.
000008     PERFORM TEST
000009         VARYING WLOOP FROM 1
000010             BY 1 UNTIL WLOOP = 10
000011         DISPLAY WLOOP
000012     END-PERFORM
000013 END PROGRAM      P2521.
```

P2521.cob 8: JMN2521I-S In the PERFORM statement, the TEST BEFORE or TEST AFTER phrase is incomplete. A 'TEST BEFORE' phrase is assumed.

### Explanation

To test a condition before executing a group of statements, specify the TEST BEFORE phrase or omit the TEST phrase. To test a condition after executing a group of statements, specify the TEST AFTER phrase. This message is displayed if only the word TEST is specified, and neither BEFORE nor AFTER is specified.

## JMN2522I-W

**No more than six AFTER phrases should occur in a VARYING phrase of a PERFORM statement. It is accepted as written.**

### Example

```
[P2522.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2522.
```

```

000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WLOOP0      PIC S9(9) COMP-5.
000007 01 WLOOP1      PIC S9(9) COMP-5.
000008 01 WLOOP2      PIC S9(9) COMP-5.
000009 01 WLOOP3      PIC S9(9) COMP-5.
000010 01 WLOOP4      PIC S9(9) COMP-5.
000011 01 WLOOP5      PIC S9(9) COMP-5.
000012 01 WLOOP6      PIC S9(9) COMP-5.
000013 01 WLOOP7      PIC S9(9) COMP-5.
000014 PROCEDURE      DIVISION.
000015     PERFORM P1
000016         VARYING WLOOP0 FROM 1 BY 1 UNTIL WLOOP1 > 1000000
000017         AFTER WLOOP1 FROM 1 BY 1 UNTIL WLOOP2 > 1000000
000018         AFTER WLOOP2 FROM 1 BY 1 UNTIL WLOOP3 > 100000
000019         AFTER WLOOP3 FROM 1 BY 1 UNTIL WLOOP4 > 10000
000020         AFTER WLOOP4 FROM 1 BY 1 UNTIL WLOOP5 > 1000
000021         AFTER WLOOP5 FROM 1 BY 1 UNTIL WLOOP6 > 100
000022         AFTER WLOOP6 FROM 1 BY 1 UNTIL WLOOP6 > 10
000023         AFTER WLOOP7 FROM 1 BY 1 UNTIL WLOOP7 > 1.
000024 P1.
000025     DISPLAY "P1".
000026 END PROGRAM      P2522.

```

P2522.cob 15: JMN2522I-W No more than six AFTER phrases should occur in a VARYING phrase of a PERFORM statement. It is accepted as written.

## JMN2523I-S

**'@2@' is specified where '@1@' must be specified.**

### Parameter Explanation

@1@ : Needed word.

@2@ : Word that caused the error.

### Example

```

[P2523.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2523.
000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WANS          PIC S9(9) BINARY.
000007 01 WDA1         PIC S9(9) BINARY.
000008 PROCEDURE      DIVISION.
000009     COMPUTE WANS > 13 + 1
000010 END PROGRAM      P2523.

```

P2523.cob 9: JMN2523I-S '>' is specified where '=' must be specified.

## JMN2524I-S

**Invalid operand '@2@' with '@1@' is specified.**

### Parameter Explanation

@1@ : Phrase where the error occurs.

@2@ : Word that caused the error.



## Example

```
[P2524.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2524.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM1        PIC S9(9) BINARY.
000007 01 WNUM2        PIC S9(9) BINARY.
000008 01 WNUM3        PIC S9(9) BINARY.
000009 01 WNUM4        PIC S9(9) BINARY.
000010 PROCEDURE       DIVISION.
000011     DIVIDE WNUM1 BY WNUM2
000012         GIVING WNUM3
000013         REMAINDER FUNCTION ADDR(WNUM4)
000014 END PROGRAM      P2524.
```

P2524.cob 13: JMN2524I-S Invalid operand 'FUNCTION ADDR' with 'REMAINDER' is specified.

## JMN2525I-S

**The operand in the @1@ phrase is missing or invalid. 1 is assumed as the operand.**

### Parameter Explanation

@1@ : FROM or BY.

## Example

```
[P2525.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2525.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WLOOP         PIC S9(9) BINARY.
000007 PROCEDURE       DIVISION.
000008     PERFORM TEST AFTER
000009         VARYING WLOOP FROM 1 BY
000010             UNTIL WLOOP = 10
000011         DISPLAY WLOOP
000012     END-PERFORM
000013 END PROGRAM      P2525.
```

P2525.cob 10: JMN2525I-S The operand in the BY phrase is missing or invalid. 1 is assumed as the operand.

## JMN2526I-S

**The identifier in the SEARCH statement cannot be subscripted or reference modified. It is ignored, and the compiler skips to the next AT END or WHEN clause.**

## Example

```
[P2526.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2526.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 .
000007 02 WTARGET        OCCURS 26 INDEXED BY IX1.
000008 03 WKEY            PIC X.
000009 03 WDATA          PIC S9(4) BINARY.
000010 01 WANS            PIC S9(4) BINARY.
```

```

000011 PROCEDURE      DIVISION.
000012     SEARCH WTARGET(1) VARYING IX1
000013     AT END
000014     DISPLAY "ERROR"
000015     WHEN WKEY(IX1) >= "A" AND
000016     WKEY(IX1) <= "Z"
000017     MOVE WDATA(IX1) TO WANS
000018     END-SEARCH
000019 END PROGRAM      P2526.

```

P2526.cob 12: JMN2526I-S The identifier in the SEARCH statement cannot be subscripted or reference modified. It is ignored, and the compiler skips to the next AT END or WHEN clause.

## JMN2527I-W

**A period, ELSE phrase, or WHEN phrase must follow NEXT SENTENCE. It is accepted as written.**

Example

```

[P2527.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2527.
000003 ENVIRONMENT     DIVISION.
000004 DATA             DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA           PIC X VALUE "a".
000007 PROCEDURE       DIVISION.
000008     IF WDA = SPACE THEN
000009     NEXT SENTENCE
000010     DISPLAY "NG"
000011 END PROGRAM      P2527.

```

P2527.cob 10: JMN2527I-W A period, ELSE phrase, or WHEN phrase must follow NEXT SENTENCE. It is accepted as written.

## JMN2528I-S

**An invalid arithmetic expression is specified in the SEARCH ALL statement.**

Example

```

[P2528.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2528.
000003 ENVIRONMENT     DIVISION.
000004 DATA             DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 .
000007 02 WTARGET       OCCURS 26 INDEXED BY IX1
000008                   ASCENDING KEY IS WKEY.
000009 03 WKEY            PIC S9(4).
000010 03 WDATA           PIC X(1).
000011 01 WANS           PIC X(1).
000012 01 WDA1           PIC S9(4).
000013 PROCEDURE       DIVISION.
000014     SEARCH ALL WTARGET
000015     AT END
000016     DISPLAY "ERROR"
000017     WHEN WKEY(IX1) = WDA1 + 12 -
000018     MOVE WDATA(IX1) TO WANS
000019     END-SEARCH
000020 END PROGRAM      P2528.

```

P2528.cob 17: JMN2528I-S An invalid arithmetic expression is specified in the SEARCH ALL statement.

## JMN2529I-S

### The relational operator is missing.

#### Example

```
[P2529.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2529.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 .
000007   02 WTARGET     OCCURS 26 INDEXED BY IX1
000008                               ASCENDING KEY IS WKEY.
000009   03 WKEY          PIC S9(4).
000010   03 WDATA        PIC X(1).
000011 01 WANS          PIC X(1).
000012 01 WDA1          PIC S9(4).
000013 PROCEDURE        DIVISION.
000014   SEARCH ALL WTARGET
000015   AT END
000016   DISPLAY "ERROR"
000017   WHEN WKEY(IX1) < WDA1 + 12
000018   MOVE WDATA(IX1) TO WANS
000019   END-SEARCH
000020 END PROGRAM        P2529.
```

P2529.cob 17: JMN2529I-S The relational operator is missing.

#### Explanation

The relational operator suitable for the context is not found. This can occur when:

- Relational operators other than = (EQUAL/EQUALS) were written in the WHEN phrase of the SEARCH statement/SEARCH ALL statement.
- A relational operator(>, <, =, <=, >=) is not written in the conditional expression in the IF or PERFORM statement, or only the optional word IS is written in the conditional expression in the EVALUATE statement.
- A relational operator(>, <, =, <=, >=) is not written in the KEY phrase of the START statement.

## JMN2530I-S

### The @1@ phrase cannot be specified. The phrase is ignored.

#### Parameter Explanation

@1@ : WHEN or DELIMITER or COUNT.

#### Example

```
[P2530.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2530.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 .
000007   02 WTARGET     OCCURS 26 INDEXED BY IX1
000008                               ASCENDING KEY IS WKEY.
000009   03 WKEY          PIC S9(4).
000010   03 WDATA        PIC X(1).
000011 01 WANS          PIC X(1).
000012 01 WDA1          PIC S9(4).
000013 PROCEDURE        DIVISION.
```

```

000014 SEARCH ALL WTARGET
000015 AT END
000016 DISPLAY "ERROR"
000017 WHEN WKEY(IX1) = WDA1 + 12
000018 MOVE WDATA(IX1) TO WANS
000019 WHEN WKEY(IX1) = WDA1 + 30
000020 MOVE WDATA(IX1) TO WANS
000021 END-SEARCH
000022 END PROGRAM P2530.

```

P2530.cob 19: JMN2530I-S The WHEN phrase cannot be specified. The phrase is ignored.

## Explanation

This message is output under the following circumstances:

- When the DELIMITED phrase is not described in the UNSTRING statement, the DELIMITER phrase or the COUNT phrase cannot be described.
- Two or more WHEN phrases cannot be described in the SEARCH ALL statement.
- Two or more WHEN OTHER phrases cannot be described.

## JMN2532I-S

**'@1@' is invalid as a program-name or entry-name.**

### Parameter Explanation

@1@ : Word that causes the error.

### Example

```

[P2532.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2532.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE DIVISION.
000007 CALL 1234
000008 END PROGRAM P2532.

```

P2532.cob 7: JMN2532I-S '1234' is invalid as a program-name or entry-name.

## JMN2534I-S

**A figurative constant ZERO(S, ES) cannot be specified in a selection subject. ZERO(S, ES) is accepted.**

### Example

```

[P2534.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2534.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WVAL PIC S9(9) BINARY.
000007 PROCEDURE DIVISION.
000008 EVALUATE TRUE ZERO
000009 WHEN WVAL = 10
000010 WVAL
000011 DISPLAY "NG"
000012 END-EVALUATE
000013 END PROGRAM P2534.

```

P2534.cob 9: JMN2534I-S A figurative constant ZERO(S, ES) cannot be specified in a selection subject. ZERO(S, ES) is accepted.

### Explanation

The operands (including TRUE and FALSE) before the first WHEN phrase in the EVALUATE statement are called "selection subjects". The figurative constant ZERO(ZEROS, ZEROES) cannot be specified as the selection subject.

## JMN2535I-S

---

**'@2@' cannot be specified in a @1@ statement.**

### Parameter Explanation

@1@ : Verb of the statement that detects the error.

@2@ : Word that causes the error.

### Example

```
[P2535.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2535.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA          PIC X.
000007 SCREEN          SECTION.
000008 01 WSC          PIC X FROM WDA.
000009 PROCEDURE       DIVISION.
000010     EVALUATE WSC
000011     WHEN ZERO
000012         DISPLAY "OK"
000013     WHEN OTHER
000014         DISPLAY "NG"
000015     END-EVALUATE
000016 END PROGRAM      P2535.
```

P2535.cob 10: JMN2535I-S 'WSC' cannot be specified in a EVALUATE statement.

## JMN2536I-S

---

**Index-name '@1@' cannot be specified in a selection subject or selection object.**

### Parameter Explanation

@1@ : Index-name that causes the error.

### Example

```
[P2536.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2536.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WOCC          PIC X OCCURS 10 INDEXED BY IX1.
000008 PROCEDURE       DIVISION.
000009     EVALUATE IX1
000010     WHEN ZERO
000011         DISPLAY "OK"
000012     WHEN OTHER
000013         DISPLAY "NG"
000014     END-EVALUATE
000015 END PROGRAM      P2536.
```

P2536.cob 9: JMN2536I-S Index-name 'IX1' cannot be specified in a selection subject or selection object.

### Explanation

The operands (including TRUE and FALSE) before the first WHEN phrase in the EVALUATE statement are called "selection subjects".  
The operands (including TRUE, FALSE, and ANY) in the WHEN phrase in the EVALUATE statement are called "selection objects".  
The index-name cannot be specified for the selection subject and the selection object.

### JMN2538I-S

**The number of selection objects must equal the number of selection subjects. The compiler assumes the appropriate number of ANY words, and compilation continues.**

### Example

```
[P2538.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2538.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA1         PIC X(1).
000007 01 WDA2         PIC X(1).
000008 PROCEDURE      DIVISION.
000009     EVALUATE TRUE ALSO TRUE
000010     WHEN WDA1 = SPACE
000011         DISPLAY "OK"
000012     WHEN OTHER
000013         DISPLAY "NG"
000014     END-EVALUATE
000015 END PROGRAM     P2538.
```

P2538.cob 10: JMN2538I-S The number of selection objects must equal the number of selection subjects. The compiler assumes the appropriate number of ANY words, and compilation continues.

### Explanation

The operands (including TRUE and FALSE) before the first WHEN phrase in the EVALUATE statement are called "selection subjects".  
The operands (including TRUE, FALSE, and ANY) in the WHEN phrase in the EVALUATE statement are called "selection objects".  
In one WHEN phrase, the number of selection subjects should be the same as the number of selection objects.

### JMN2539I-S

**The number of selection objects is greater than the number of selection subjects. Their numbers must be equal. Excess selection objects are ignored.**

### Example

```
[P2539.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2539.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA1         PIC X(1).
000007 01 WDA2         PIC X(1).
000008 PROCEDURE      DIVISION.
000009     EVALUATE TRUE
000010     WHEN WDA1 = SPACE ALSO
000011         WDA2 = SPACE
000012         DISPLAY "OK"
000013     WHEN OTHER
000014         DISPLAY "NG"
```

```
000015     END-EVALUATE
000016 END PROGRAM     P2539.
```

P2539.cob 10: JMN2539I-S The number of selection objects is greater than the number of selection subjects. Their numbers must be equal. Excess selection objects are ignored.

### Explanation

The operands (including TRUE and FALSE) before the first WHEN phrase in the EVALUATE statement are called "selection subjects". The operands (including TRUE, FALSE, and ANY) in the WHEN phrase in the EVALUATE statement are called "selection objects". In one WHEN phrase, the number of selection subjects should be the same as the number of selection objects.

## JMN2540I-W

**The paragraph containing the EXIT statement can only consist of the procedure-name and the EXIT statement itself. The EXIT statement is considered to be a CONTINUE statement in this context.**

### Example

```
[P2540.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2540.
000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE     DIVISION.
000007 E-PROC       SECTION.
000008     DISPLAY "EXIT"
000009     EXIT.
000010 END PROGRAM    P2540.
```

P2540.cob 9: JMN2540I-W The paragraph containing the EXIT statement can only consist of the procedure-name and the EXIT statement itself. The EXIT statement is considered to be a CONTINUE statement in this context.

### Explanation

A paragraph containing the EXIT statement must not contain any other statements. The EXIT statement must appear in a sentence by itself.

## JMN2541I-S

**The same category cannot be specified in the REPLACING phrase of the INITIALIZE statement.**

### Example

```
[P2541.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2541.
000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WNUM        PIC S9(9) BINARY.
000008 02 WDX1        PIC X(10).
000009 02 WDX2        PIC N(10).
000010 PROCEDURE     DIVISION.
000011     INITIALIZE WGRP
000012     REPLACING
000013         ALPHANUMERIC DATA BY SPACE
000014         ALPHANUMERIC DATA BY LOW-VALUE
000015 END PROGRAM    P2541.
```

P2541.cob 14: JMN2541I-S The same category cannot be specified in the REPLACING phrase of the INITIALIZE statement.

## Explanation

The INITIALIZE statement initializes a data item. The data item is initialized by the value specified in the BY phrase only when its category matches the category specified in the REPLACING phrase. Two or more REPLACING phrases that specify the same category cannot be described at the same time.

### JMN2543I-S

#### A user-defined word must follow IN or OF. The IN or OF is ignored.

#### Example

```
[P2543.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2543.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WITEM        PIC X(10).
000008 PROCEDURE       DIVISION.
000009     MOVE SPACE TO WITEM OF.
000010 END PROGRAM     P2543.
```

P2543.cob 9: JMN2543I-S A user-defined word must follow IN or OF. The IN or OF is ignored.

## Explanation

If two or more user-defined words with identical spelling are in the same name scope, when referencing the user-defined words qualification must be used.

The qualification describes word OF or IN following the qualified data-name, and, in addition, describes the high-order name according to the name hierarchy. Qualifiers(IN or OF and the word following) must continue to be added to the user-defined words until it becomes unique.

### JMN2545I-S

#### An invalid word is specified in the arithmetic expression of the @1@ statement.

#### Parameter Explanation

@1@ : COMPUTE

#### Example

```
[P2545.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2545.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WANS          PIC S9(9) BINARY.
000007 PROCEDURE       DIVISION.
000008     COMPUTE WANS = "ABC"
000009 END PROGRAM     P2545.
```

P2545.cob 8: JMN2545I-S An invalid word is specified in the arithmetic expression of the COMPUTE statement.

## Explanation

Only a numeric item, floating-point item, numeric function, integer function, numeric literal or figurative constant ZERO can be used as an operand of the arithmetic expression of a COMPUTE statement.

### JMN2547I-S



---

**The ALL literal cannot be specified in a @1@ statement. The word ALL is ignored.**

**Parameter Explanation**

@1@ : Verb of statement that detects the error.

**Example**

```
[P2547.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2547.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WBUF         PIC X(20).
000007 PROCEDURE      DIVISION.
000008     EXAMINE WBUF
000009         TALLYING LEADING ALL "A"
000010 END PROGRAM     P2547.
```

P2547.cob 9: JMN2547I-S The ALL literal cannot be specified in a EXAMINE statement. The word ALL is ignored.

**Explanation**

The ALL literal cannot be used in a character string handling statement (EXAMINE, INSPECT, STRING and UNSTRING statement), because the compiler cannot determine the length of ALL literal in the compilation time. (The EXAMINE statement is specific to the OSIV-series.)

**JMN2548I-S**

---

**The format of the specification '@1@' is invalid.**

**Parameter Explanation**

@1@ : TYPE or USING or TALLYING/REPLACING.

**Example**

```
[P2548.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2548.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDATA1        PIC X(10).
000007 01 WDATA2        PIC X(10).
000008 01 WDATA3        PIC X(10).
000009 01 WBUF          PIC X(50).
000010 PROCEDURE      DIVISION.
000011     STRING WDATA1 WDATA2 WDATA3
000012         INTO WBUF
000013         BY CSV-FORMAT TYPE MODE-0.
000014 END PROGRAM     P2548.
```

P2548.cob 13: JMN2548I-S The format of the specification 'TYPE' is invalid.

**Explanation**

This message is caused by incorrect format or syntax in the following areas:

- The TYPE phrase of the STRING statement.
- The USING BY REFERENCE/BY VALUE phrase of the procedure division header. (This is specific to the .NET-series.)
- The TALLYING/REPLACING phrase of the EXAMINE statement. (The EXAMINE statement is specific to the OSIV-series.)

Please review the format and syntax rules in the reference manual.

## JMN2549I-W

**Only the optional word '@1@' is specified. '@1@' is ignored.**

### Parameter Explanation

@1@ : Optional word which causes error.

### Example

```
[P2549.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2549.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA1          PIC X.
000007 PROCEDURE       DIVISION.
000008     CALL "SUB2549" USING BY WDA1
000009     EXIT PROGRAM
000010     .
000011 IDENTIFICATION DIVISION.
000012 PROGRAM-ID.      SUB2549.
000013 DATA            DIVISION.
000014 LINKAGE          SECTION.
000015 01 P1            PIC X.
000016 PROCEDURE       DIVISION USING P1.
000017 END PROGRAM     SUB2549.
000018 END PROGRAM     P2549.
```

P2549.cob 8: JMN2549I-W Only the optional word 'BY' is specified. 'BY' is ignored.

### Explanation

A keyword should follow an optional word. An optional word is one that may be written or omitted, but a keyword must be included. Keywords are written in uppercase letters and are underlined in all syntax diagrams of the "NetCOBOL Language Reference".

## JMN2550I-S

**'@2@' in the @1@ statement must be a report-name or a data-name.**

### Parameter Explanation

@1@ : GENERATE

@2@ : User-defined word which causes the error.

### Example

```
[P2550.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2550.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD REPFIL
000010     REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 WBUF1        PIC X(80).
000013 REPORT          SECTION.
000014 RD REP1 PAGE 66
000015     CONTROL FINAL.
```

```

000016 01 TYPE DE.
000017 PROCEDURE      DIVISION.
000018 LBL1.
000019     GENERATE LBL1
000020 END PROGRAM     P2550.

```

P2550.cob 19: JMN2550I-S 'LBL1' in the GENERATE statement must be a report-name or a data-name.

### Explanation

The GENERATE Statement outputs a report according to the report description entry. The report-name (the name following the level indicator RD) or the data-name of the detail report group (the report description entry that specifies the TYPE clause with DETAIL phrase) can be specified for the GENERATE statement.

## JMN2551I-S

**The @1@ statement must contain key word '@2@'.**

### Parameter Explanation

@1@ : Verb of statement that detects the error.

@2@ : Missing key word that causes the error.

### Example

```

[P2551.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2551.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA1         PIC X(20).
000007 PROCEDURE      DIVISION.
000008     SET WDA1
000009 END PROGRAM      P2551.

```

P2551.cob 8: JMN2551I-S The SET statement must contain key word 'TO'.

### Explanation

A keyword must be included in the statement.

## JMN2552I-S

**An index-name, index data item, integer item, or positive integer must follow TO in the SET statement.**

### Example

```

[P2552.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2552.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA1         PIC X(20).
000007 01 WDA2         PIC X(20).
000008 PROCEDURE      DIVISION.
000009     SET WDA1 TO ALL "A"
000010 END PROGRAM      P2552.

```

P2552.cob 9: JMN2552I-S An index-name, index data item, integer item, or positive integer must follow TO in the SET statement.

## JMN2553I-S

---

**Integer item or integer must follow 'UP BY' or 'DOWN BY' in SET statement.**

**Example**

```
[P2553.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2553.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WOCC        PIC X(1)
000008                OCCURS 10 INDEXED BY IX1.
000009 PROCEDURE      DIVISION.
000010     SET IX1 UP BY 1.5
000011 END PROGRAM    P2553.
```

P2553.cob 10: JMN2553I-S Integer item or integer must follow 'UP BY' or 'DOWN BY' in SET statement.

**Explanation**

The value of the UP BY target is increased by the integer value specified for UP BY, and the value of the DOWN BY target is decreased by the integer value specified for DOWN BY. An integer value must be specified for UP BY and DOWN BY.

**JMN2554I-S**

---

**A word which indicates a category must follow REPLACING in the INITIALIZE statement. The code is ignored until the next statement or procedure-name.**

**Example**

```
[P2554.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2554.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WNUM        PIC S9(9) BINARY.
000008 02 WDX1        PIC X(10).
000009 02 WDX2        PIC N(10).
000010 PROCEDURE      DIVISION.
000011     INITIALIZE WGRP
000012     REPLACING DATA BY SPACE
000013 END PROGRAM    P2554.
```

P2554.cob 12: JMN2554I-S A word which indicates a category must follow REPLACING in the INITIALIZE statement. The code is ignored until the next statement or procedure-name.

**Explanation**

The REPLACING phrase is used to initialize an elementary item of a particular category with a particular value.

**JMN2555I-S**

---

**An identifier or literal must follow BY in the INITIALIZE statement. The code is ignored, and the compiler skips to the next word representing a category or statement.**

**Example**

```
[P2555.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2555.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
```

```

000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WNUM PIC S9(9) BINARY.
000008 02 WDX1 PIC X(10).
000009 02 WDX2 PIC N(10).
000010 01 WINIT PIC X(1) VALUE SPACE.
000011 PROCEDURE DIVISION.
000012 LBL1.
000013 INITIALIZE WGRP
000014 REPLACING ALPHANUMERIC DATA BY LBL1.
000015 END PROGRAM P2555.

```

P2555.cob 14: JMN2555I-S An identifier or literal must follow BY in the INITIALIZE statement. The code is ignored, and the compiler skips to the next word representing a category or statement.

### Explanation

An initialization value must be specified for the BY phrase.

## JMN2556I-S

**The USE statement can only be specified in DECLARATIVES.**

### Example

```

[P2556.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2556.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT SQFILE1 ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD SQFILE1.
000010 01 SQF1REC.
000011 02 PIC X(80).
000012 WORKING-STORAGE SECTION.
000013 01 WFS1 PIC X(2).
000014 PROCEDURE DIVISION.
000015 E-PROC SECTION. USE AFTER ERROR PROCEDURE ON SQFILE1.
000016 DISPLAY "OK".
000017 END PROGRAM P2556.

```

P2556.cob 15: JMN2556I-S The USE statement can only be specified in DECLARATIVES.

### Explanation

Declaratives are specified in a block of code that begins with the keyword DECLARATIVES and ends with the keyword END DECLARATIVES. The USE statement can only be specified in DECLARATIVES.

## JMN2557I-S

**The format of the @1@ statement is incomplete.**

### Parameter Explanation

@1@ : Verb of the statement that detects the error.

### Example

```

[P2557.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2557.
000003 ENVIRONMENT DIVISION.

```

```

000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA1         PIC X.
000007 01 WDA2         PIC X.
000008 PROCEDURE      DIVISION.
000009     MOVE WDA1 TO WDA3
000010 END PROGRAM    P2557.

```

P2557.cob 9: JMN2557I-S The format of the MOVE statement is incomplete.

### Explanation

Since an error was detected in an element of the statement, so the statement cannot be analyzed. Review and address any errors that have been output in other diagnostic messages.

### JMN2558I-S

**The @1@ statement can only have one @2@ phrase. The first @2@ phrase is used and the other @2@ phrases are ignored.**

### Parameter Explanation

@1@ : Verb of the statement that detects the error.

@2@ : Phrase that causes the error.

### Example

```

[P2558.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2558.
000003 ENVIRONMENT      DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 TARGET        PIC X(80).
000007 01 RESULT       PIC S9(9) COMP-5.
000008 PROCEDURE       DIVISION.
000009     INSPECT TARGET TALLYING
000010         RESULT FOR
000011             CHARACTERS BEFORE "A"
000012                 BEFORE "C"
000013 END PROGRAM      P2558.

```

P2558.cob 12: JMN2558I-S The INSPECT statement can only have one BEFORE phrase. The first BEFORE phrase is used and the other BEFORE phrases are ignored.

### JMN2560I-W

**The section-name must be followed by a USE statement in DECLARATIVES. It is accepted as written.**

### Example

```

[P2560.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2560.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD SQFILE1.
000010 01 SQF1REC.
000011     02            PIC X(80).
000012 WORKING-STORAGE SECTION.

```

```

000013 01 WFS1          PIC X(2).
000014 PROCEDURE      DIVISION.
000015 DECLARATIVES.
000016 E-PROC SECTION.
000017 END DECLARATIVES.
000018 END PROGRAM     P2560.

```

P2560.cob 16: JMN2560I-W The section-name must be followed by a USE statement in DECLARATIVES. It is accepted as written.

### Explanation

The USE statement should be written just after the section-name in the declaratives (a block that begins with the keyword DECLARATIVES and ends with the keyword END DECLARATIVES).

## JMN2561I-S

**The KEY phrase of the READ or START statement contains no valid operand. The KEY phrase is ignored.**

### Example

```

[P2561.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2561.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT IXFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS INDEXED
000008     RECORD KEY     IS WRKY1.
000009 DATA             DIVISION.
000010 FILE              SECTION.
000011 FD IXFILE1.
000012 01 IXFILE1REC.
000013 02 WRKY1        PIC X(2).
000014 02              PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WRKY2        PIC X(2).
000017 PROCEDURE        DIVISION.
000018     START IXFILE1
000019     FIRST RECORD
000020     KEY IS IXFILE1
000021 END PROGRAM       P2561.

```

P2561.cob 20: JMN2561I-S The KEY phrase of the READ or START statement contains no valid operand. The KEY phrase is ignored.

### Explanation

There is no key item because an error was detected in the data-names specified for the KEY phrase. Review and address any errors that have been output in other diagnostic messages.

## JMN2562I-S

**'@1@' must be a record-name in a sort-merge file.**

### Parameter Explanation

@1@ : Word that causes the error.

### Example

```

[P2562.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2562.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.

```

```

000005 FILE-CONTROL.
000006     SELECT SRTFILE ASSIGN TO SYS003.
000007 I-O-CONTROL.
000008 DATA          DIVISION.
000009 FILE           SECTION.
000010 FD SRTFILE.
000011 01 SRTREC.
000012  02 SRTKEY    PIC X(8).
000013  02          PIC X(72).
000014 WORKING-STORAGE SECTION.
000015 01 WFS1       PIC X(2).
000016 PROCEDURE     DIVISION.
000017     RELEASE SRTREC
000018 END PROGRAM   P2562.

```

P2562.cob 17: JMN2562I-S 'SRTREC' must be a record-name in a sort-merge file.

### Explanation

The RELEASE statement delivers a record assigned to record-name to the first step of the sorting operation. The record-name specified for the RELEASE statement should be in the sort-merge file.

## JMN2564I-S

**'@2@' in the @1@ statement must be a sort-merge file name.**

### Parameter Explanation

@1@ : SORT, MERGE or RETURN.

@2@ : Word that causes the error.

### Example

```

[P2564.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2564.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT SQFILE2 ASSIGN TO SYS002.
000008     SELECT SRTFILE ASSIGN TO SYS003.
000009 I-O-CONTROL.
000010 DATA          DIVISION.
000011 FILE           SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014  02          PIC X(80).
000015 FD SQFILE2.
000016 01 SQF2REC.
000017  02          PIC X(80).
000018 FD SRTFILE.
000019 01 SRTREC.
000020  02 SRTKEY    PIC X(8).
000021  02          PIC X(72).
000022 WORKING-STORAGE SECTION.
000023 01 WFS1       PIC X(2).
000024 PROCEDURE     DIVISION.
000025     SORT SRTREC
000026         ASCENDING KEY SRTKEY
000027         USING SQFILE1
000028         GIVING SQFILE2
000029 END PROGRAM   P2564.

```



P2564.cob 25: JMN2564I-S 'SRTREC' in the SORT statement must be a sort-merge file name.

#### Explanation

The file-name specified just after SORT, MERGE, and RETURN should be a file-name defined in the sort-merge file description entry (the name following level indicator SD).

### JMN2565I-S

---

**An invalid operand is specified in the arithmetic expression. The arithmetic expression is ignored.**

#### Example

```
[P2565.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2565.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WANS         PIC S9(9) BINARY.
000007 PROCEDURE       DIVISION.
000008     COMPUTE WANS = 13.2 + "ABC"
000009 END PROGRAM     P2565.
```

P2565.cob 8: JMN2565I-S An invalid operand is specified in the arithmetic expression. The arithmetic expression is ignored.

#### Explanation

Only a numeric data item, a floating-point data item, a numeric function, an integer function, a numeric literal, or the figurative constant ZERO can be specified in arithmetic expressions.

### JMN2566I-S

---

**The RETURN statement must have an AT END phrase. The AT END CONTINUE phrase is assumed.**

#### Example

```
[P2566.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2566.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SRTFILE ASSIGN TO SYS003.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE           SECTION.
000010 SD SRTFILE.
000011 01 SRTREC.
000012 02 SRTKEY     PIC X(8).
000013 02           PIC X(72).
000014 WORKING-STORAGE SECTION.
000015 01 WFS1       PIC X(2).
000016 PROCEDURE     DIVISION.
000017     RETURN SRTFILE
000018 END PROGRAM     P2566.
```

P2566.cob 17: JMN2566I-S The RETURN statement must have an AT END phrase. The AT END CONTINUE phrase is assumed.

#### Explanation

When the RETURN statement has been executed, the next record determined by the row of keys specified in the SORT or MERGE statement is retrieved from the file assigned to file-name. If there is no record to retrieve, the procedure described in AT END phrase is done.

## JMN2567I-S

**The condition in the @1@ statement is invalid.**

### Parameter Explanation

@1@ : PERFORM or SEARCH.

### Example

```
[P2567.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2567.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A             PIC X(10).
000007 PROCEDURE       DIVISION.
000008     PERFORM TEST BEFORE
000009             UNTIL A =
000010             DISPLAY "IN LOOP".
000011 END PROGRAM     P2567.
```

P2567.cob 9: JMN2567I-S The condition in the PERFORM statement is invalid.

## JMN2568I-S

**The SUPPRESS statement can only be specified in the USE BEFORE REPORTING procedure.**

### Example

```
[P2568.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2568.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT REPF1   ASSIGN TO SYS002.
000008 I-O-CONTROL.
000009 DATA            DIVISION.
000010 FILE            SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC     PIC X(80).
000013 FD REPF1
000014     REPORT IS REP1.
000015 WORKING-STORAGE SECTION.
000016 01 WFS1         PIC X(2).
000017 REPORT        SECTION.
000018 RD REP1 PAGE 66.
000019 01 DE-REC TYPE DE.
000020     02 LINE PLUS 1.
000021     03 COLUMN 1 PIC X(80) SOURCE SQF1REC.
000022 PROCEDURE     DIVISION.
000023     INITIATE REP1.
000024     SUPPRESS PRINTING
000025     GENERATE DE-REC.
000026     TERMINATE REP1.
000027 END PROGRAM     P2568.
```

P2568.cob 24: JMN2568I-S The SUPPRESS statement can only be specified in the USE BEFORE REPORTING procedure.

## Explanation

The SUPPRESS statement suppresses the presentation of a report group. The SUPPRESS statement can be written only in a USE BEFORE REPORTING procedure.

The USE BEFORE REPORTING procedure is described just after the USE BEFORE REPORTING statement in the declaratives. The Report Writer Control System executes the USE BEFORE REPORTING procedure immediately before the specified report group is created and displayed.

## JMN2569I-S

**The subscript must be an arithmetic expression or an index-name with an optional +integer or -integer. 1 is assumed for the subscript.**

### Example

```
[P2569.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2569.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007    02 WOCC      PIC X
000008                   OCCURS 10 INDEXED BY IX1.
000009 PROCEDURE       DIVISION.
000010    MOVE SPACE TO WOCC("12")
000011 END PROGRAM     P2569.
```

P2569.cob 10: JMN2569I-S The subscript must be an arithmetic expression or an index-name with an optional +integer or -integer. 1 is assumed for the subscript.

## JMN2570I-S

**@1@ must be subscripted.**

### Parameter Explanation

@1@ : Data name that causes the error.

### Example

```
[P2570.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2570.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007    02 WOCC      PIC X
000008                   OCCURS 10 INDEXED BY IX1.
000009 PROCEDURE       DIVISION.
000010    MOVE SPACE TO WOCC
000011 END PROGRAM     P2570.
```

P2570.cob 10: JMN2570I-S WOCC must be subscripted.

## Explanation

A table element must be subscripted before being referenced, except in the following cases:

- Subject in a SEARCH statement
- REDEFINES clause
- KEY IS phrase in an OCCURS clause

## JMN2571I-S

**The right parenthesis of the subscript or reference modification is not specified. A right parenthesis is assumed.**

### Example

```
[P2571.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2571.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WOCC         PIC X
000008                 OCCURS 10 INDEXED BY IX1.
000009 PROCEDURE       DIVISION.
000010     MOVE SPACE TO WOCC(1
000011 END PROGRAM     P2571.
```

P2571.cob 10: JMN2571I-S The right parenthesis of the subscript or reference modification is not specified. A right parenthesis is assumed.

## JMN2574I-S

**The SORT or MERGE statement must have an ASCENDING or DESCENDING phrase. An ASCENDING phrase is assumed.**

### Example

```
[P2574.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2574.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT SQFILE2 ASSIGN TO SYS002.
000008     SELECT SRTFILE ASSIGN TO SYS003.
000009 I-O-CONTROL.
000010 DATA           DIVISION.
000011 FILE           SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02           PIC X(80).
000015 FD SQFILE2.
000016 01 SQF2REC.
000017 02           PIC X(80).
000018 SD SRTFILE.
000019 01 SRTREC.
000020 02 SRTKEY     PIC X(8).
000021 02           PIC X(72).
000022 WORKING-STORAGE SECTION.
000023 PROCEDURE     DIVISION.
000024     SORT SRTFILE
000025         ON KEY SRTKEY
000026         USING SQFILE1
000027         GIVING SQFILE2
000028 END PROGRAM     P2574.
```

P2574.cob 25: JMN2574I-S The SORT or MERGE statement must have an ASCENDING or DESCENDING phrase. An ASCENDING phrase is assumed.

## Explanation

Specify whether the record is to be sorted/merged in ascending or descending order.

### JMN2575I-S

**The number of key data-names in the SORT or MERGE statement cannot exceed 64. Excess data-names are ignored.**

#### Example

```
[P2575.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2575.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT SQFILE2 ASSIGN TO SYS002.
000008     SELECT SRTFILE ASSIGN TO SYS003.
000009 I-O-CONTROL.
000010 DATA           DIVISION.
000011 FILE           SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02                               PIC X(80).
000015 FD SQFILE2.
000016 01 SQF2REC.
000017 02                               PIC X(80).
000018 SD SRTFILE.
000019 01 SRTREC.
000020 02 SRTKEY01 PIC X(1).
000021 02 SRTKEY02 PIC X(1).
000022 :
000023 :
000024 :
000025 :
000026 :
000027 :
000028 :
000029 :
000030 :
000031 :
000032 :
000033 :
000034 :
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000068 :
000069 :
000070 :
000071 :
000072 :
000073 :
000074 :
000075 :
000076 :
000077 :
000078 :
000079 :
000080 :
000081 :
000082 :
000083 02 SRTKEY64 PIC X(1).
000084 02 SRTKEY65 PIC X(1).
000085 02                               PIC X(15).
000086 WORKING-STORAGE SECTION.
000087 PROCEDURE     DIVISION.
000088     SORT SRTFILE
000089     ON ASCENDING KEY
000090     SRTKEY01 SRTKEY02 SRTKEY03 SRTKEY04 SRTKEY05
000091     :
000092     SRTKEY61 SRTKEY62 SRTKEY63 SRTKEY64 SRTKEY65
000093     USING SQFILE1
000094     GIVING SQFILE2
000105 END PROGRAM      P2575.
```

P2575.cob 102: JMN2575I-S The number of key data-names in the SORT or MERGE statement cannot exceed 64. Excess data-names are ignored.

## Explanation

The COBOL processing system allows a maximum of 64 key data-names in a SORT or MERGE statement.

### JMN2576I-S

**The number of file-names specified in the USING phrase of the SORT or MERGE statement cannot exceed 16. Excess file-names are ignored.**

#### Example

```
[P2576.cob]
000001 IDENTIFICATION DIVISION.
```

```

000002 PROGRAM-ID.      P2576.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE01 ASSIGN TO SYS001.
000007     SELECT SQFILE02 ASSIGN TO SYS002.
      :
000022     SELECT SQFILE17 ASSIGN TO SYS017.
000023     SELECT SQFILE18 ASSIGN TO SYS018.
000024     SELECT SRTFILE  ASSIGN TO SYS019.
000025 I-O-CONTROL.
000026 DATA           DIVISION.
000027 FILE             SECTION.
000028 FD SQFILE01.
000029 01 SQF01REC      PIC X(80).
000030 FD SQFILE02.
000031 01 SQF02REC      PIC X(80).
      :
000060 FD SQFILE17.
000061 01 SQF17REC      PIC X(80).
000062 FD SQFILE18.
000063 01 SQF18REC      PIC X(80).
000064 SD SRTFILE.
000065 01 SRTREC.
000066 02 SRTKEY        PIC X(1).
000067 02                PIC X(79).
000068 WORKING-STORAGE SECTION.
000069 PROCEDURE        DIVISION.
000070     SORT SRTFILE
000071         ON ASCENDING KEY SRTKEY
000072         USING  SQFILE01 SQFILE02 SQFILE03 SQFILE04
      :
000076         SQFILE17
000077         GIVING SQFILE18
000078 END PROGRAM        P2576.

```

P2576.cob 76: JMN2576I-S The number of file-names specified in the USING phrase of the SORT or MERGE statement cannot exceed 16. Excess file-names are ignored.

### Explanation

The COBOL processing system allows a maximum of 16 file-names to be specified in the USING phrase of the SORT or MERGE statement.

### JMN2580I-W

**The @1@ statement cannot be specified in DECLARATIVES. It is accepted as written.**

### Parameter Explanation

@1@ : SORT or MERGE.

### Example

```

[P2580.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2580.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT SQFILE2 ASSIGN TO SYS002.
000008     SELECT SRTFILE ASSIGN TO SYS003.
000009 I-O-CONTROL.

```

```

000010 DATA          DIVISION.
000011 FILE           SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02             PIC X(80).
000015 FD SQFILE2.
000016 01 SQF2REC.
000017 02             PIC X(80).
000018 SD SRTFILE.
000019 01 SRTREC.
000020 02 SRTKEY      PIC X(8).
000021 02             PIC X(72).
000022 WORKING-STORAGE SECTION.
000023 01 WFS1        PIC X(2).
000024 PROCEDURE      DIVISION.
000025 DECLARATIVES.
000026 FILE-ERROR SECTION.
000027     USE AFTER STANDARD ERROR PROCEDURE ON SQFILE1
000028     SORT SRTFILE
000029     ASCENDING KEY SRTKEY
000030     USING SQFILE1
000031     GIVING SQFILE2.
000032 END DECLARATIVES.
000033 END PROGRAM     P2580.

```

P2580.cob 28: JMN2580I-W The SORT statement cannot be specified in DECLARATIVES. It is accepted as written.

## JMN2583I-S

**The format of the high-order-end-character-position of the reference modification is invalid. 1, the first character, is used.**

### Example

```

[P2583.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2583.
000003 ENVIRONMENT      DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WBUF          PIC X(20).
000007 PROCEDURE      DIVISION.
000008     MOVE SPACE TO WBUF("ABC":1)
000009 END PROGRAM      P2583.

```

P2583.cob 8: JMN2583I-S The format of the high-order-end-character-position of the reference modification is invalid. 1, the first character, is used.

### Explanation

The high-order-end-character-position must be an arithmetic expression.

## JMN2584I-S

**The length specification in the reference modification is invalid. The reference modifier without a length specification is assumed.**

### Example

```

[P2584.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2584.
000003 ENVIRONMENT      DIVISION.
000004 DATA            DIVISION.

```

```

000005 WORKING-STORAGE SECTION.
000006 01 WBUF          PIC X(20).
000007 PROCEDURE        DIVISION.
000008     MOVE SPACE TO WBUF(12:"ABC")
000009 END PROGRAM      P2584.

```

P2584.cob 8: JMN2584I-S The length specification in the reference modification is invalid. The reference modifier without a length specification is assumed.

### Explanation

The length must be an arithmetic expression.

## JMN2585I-S

**The @1@ statement cannot be specified in the USE BEFORE REPORTING procedure.**

### Parameter Explanation

@1@ : GENERATE, INITIATE or TERMINATE.

### Example

```

[P2585.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2585.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT REPPFILE ASSIGN TO SYS002.
000008 I-O-CONTROL.
000009 DATA            DIVISION.
000010 FILE            SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC      PIC X(80).
000013 FD REPPFILE
000014     REPORT IS REP1.
000015 WORKING-STORAGE SECTION.
000016 01 WFS1          PIC X(2).
000017 REPORT          SECTION.
000018 RD REP1 PAGE 66.
000019 01 DE-REC TYPE DE.
000020 02 LINE PLUS 1.
000021 03 COLUMN 1 PIC X(80) SOURCE SQF1REC.
000022 PROCEDURE      DIVISION.
000023 DECLARATIVES.
000024 FILE-ERROR-1 SECTION.
000025     USE BEFORE REPORTING DE-REC.
000026     GENERATE REP1.
000027 END DECLARATIVES.
000028 END PROGRAM      P2585.

```

P2585.cob 26: JMN2585I-S The GENERATE statement cannot be specified in the USE BEFORE REPORTING procedure.

### Explanation

The USE BEFORE REPORTING procedure is executed immediately before the specified report group is created and displayed. The USE BEFORE REPORTING procedure cannot be used to generate reports, initiate report processing, or terminate report processing.

## JMN2586I-S

**There is no valid report description entry in the program containing the @1@ statement.**



## Parameter Explanation

@1@ : GENERATE, INITIATE, SUPPRESS or TERMINATE.

## Example

```
[P2586.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2586.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006 I-O-CONTROL.
000007 DATA           DIVISION.
000008 FILE             SECTION.
000009 WORKING-STORAGE SECTION.
000010 01 REP1         PIC X(80).
000011 REPORT          SECTION.
000012 PROCEDURE       DIVISION.
000013     GENERATE REP1.
000014 END PROGRAM     P2586.
```

P2586.cob 13: JMN2586I-S There is no valid report description entry in the program containing the GENERATE statement.

## JMN2587I-S

**The @1@ statement cannot be specified in a program contained directly or indirectly within another program.**

## Parameter Explanation

@1@ : ENTRY

## Example

```
[P2587.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2587.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE       DIVISION.
000007     CALL "P2587SUB"
000008     EXIT PROGRAM.
000009*
000010 IDENTIFICATION DIVISION.
000011 PROGRAM-ID.      P2587SUB.
000012 ENVIRONMENT     DIVISION.
000013 DATA           DIVISION.
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE       DIVISION.
000016     ENTRY "P2587E1"
000017 END PROGRAM     P2587SUB.
000018 END PROGRAM     P2587.
```

P2587.cob 16: JMN2587I-S The ENTRY statement cannot be specified in a program contained directly or indirectly within another program.

## Explanation

The ENTRY statement must be specified in the outermost program.

## JMN2588I-S

---

**The '@1@' phrase cannot appear before a GIVING phrase in an ADD, DIVIDE, MULTIPLY, or SUBTRACT statement.**

**Parameter Explanation**

@1@ : ROUNDED.

**Example**

```
[P2588.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2588.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM1        PIC S9(4) BINARY.
000007 01 WNUM2        PIC S9(4) BINARY.
000008 01 WNUM3        PIC S9(9) BINARY.
000009 PROCEDURE      DIVISION.
000010     ADD WNUM1 TO WNUM2 ROUNDED
000011     GIVING WNUM3
000012 END PROGRAM     P2588.
```

P2588.cob 10: JMN2588I-S The 'ROUNDED' phrase cannot appear before a GIVING phrase in an ADD, DIVIDE, MULTIPLY, or SUBTRACT statement.

**Explanation**

When the GIVING phrase is written in an ADD/DIVIDE/MULTIPLY/SUBTRACT statement, the ROUNDED phrase can be specified only for the item specified by the GIVING phrase.

**JMN2589I-S**

---

**'@2@' in the @1@ statement must be a record-name of a file that is not a sort-merge file.**

**Parameter Explanation**

@1@ : WRITE or REWRITE.

@2@ : Word that causes the error.

**Example**

```
[P2589.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2589.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS SEQUENTIAL.
000008 DATA           DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1.
000011 01 SQF1REC.
000012 02             PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE      DIVISION.
000015     WRITE SQFILE1
000016 END PROGRAM     P2589.
```

P2589.cob 15: JMN2589I-S 'SQFILE1' in the WRITE statement must be a record-name of a file that is not a sort-merge file.

## Explanation

A record-name must be specified in WRITE and REWRITE statements. In the example above, the record-name is a data-name of the level-number 01 data description entry that follows the file description entry (level indicator FD) of the data division.

## JMN2591I-S

**'@1@' in the WRITE statement must follow AFTER or BEFORE. AFTER is assumed.**

### Parameter Explanation

@1@ : ADVANCING or POSITIONING.

### Example

```
[P2591.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2591.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS SEQUENTIAL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1.
000011 01 SQF1REC.
000012 02              PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE       DIVISION.
000015     WRITE SQF1REC ADVANCING PAGE
000016 END PROGRAM     P2591.
```

P2591.cob 15: JMN2591I-S 'ADVANCING' in the WRITE statement must follow AFTER or BEFORE. AFTER is assumed.

## Explanation

BEFORE or AFTER must be used with ADVANCING and POSITIONING.

## JMN2592I-S

**Invalid word '@1@' is specified in a @2@ phrase. 1 is assumed.**

### Parameter Explanation

@1@ : Word which causes error.

@2@ : ADVANCING or POSITIONING.

### Example

```
[P2592.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2592.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS SEQUENTIAL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1.
000011 01 SQF1REC.
000012 02              PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE       DIVISION.
```

```

000015     WRITE SQF1REC
000016             AFTER ADVANCING END-OF-PAGE
000017 END PROGRAM     P2592.

```

P2592.cob 16: JMN2592I-S Invalid word 'END-OF-PAGE' is specified in a ADVANCING phrase. 1 is assumed.

### Explanation

Only the following can be specified for the ADVANCING phrase:

- An integer
- A numeric item
- A mnemonic-name corresponding to the function-name CHANNEL-01 to CHANNEL-12, SLC, CTL, STACKER-01 or STACKER-2
- PAGE

### JMN2593I-S

**LINE(S) can only be specified when the @1@ phrase has an integer or an identifier. LINE(S) is ignored.**

#### Parameter Explanation

@1@ : ADVANCING or POSITIONING.

#### Example

```

[P2593.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2593.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     CHANNEL-01 IS C01.
000007 INPUT-OUTPUT   SECTION.
000008 FILE-CONTROL.
000009     SELECT SQFILE1 ASSIGN TO SYS001
000010     ORGANIZATION IS SEQUENTIAL.
000011 DATA            DIVISION.
000012 FILE             SECTION.
000013 FD SQFILE1.
000014 01 SQF1REC.
000015 02              PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 PROCEDURE        DIVISION.
000018     WRITE SQF1REC
000019     AFTER ADVANCING C01 LINE.
000020 END PROGRAM     P2593.

```

P2593.cob 19: JMN2593I-S LINE(S) can only be specified when the ADVANCING phrase has an integer or an identifier. LINE(S) is ignored.

### Explanation

The line feed is performed according to the value specified before LINE(LINES).

### JMN2596I-S

**The WHEN phrase must precede the WHEN OTHER phrase in the EVALUATE statement.**

#### Example

```

[P2596.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2596.

```

```

000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM        PIC S9(4) BINARY.
000007 PROCEDURE      DIVISION.
000008     EVALUATE WNUM
000009     WHEN OTHER
000010         DISPLAY "NG"
000011     WHEN 3
000012         DISPLAY "OK"
000013     END-EVALUATE
000014 END PROGRAM      P2596.

```

P2596.cob 9: JMN2596I-S The WHEN phrase must precede the WHEN OTHER phrase in the EVALUATE statement.

### Explanation

If no WHEN phrase is selected, the statement written in the WHEN OTHER phrase is executed.

### JMN2597I-S

**The sign condition cannot be specified for a selection subject or a selection object of an EVALUATE statement.**

### Example

```

[P2597.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2597.
000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM1        PIC S9(4) BINARY.
000007 01 WNUM2        PIC S9(4) BINARY.
000008 PROCEDURE      DIVISION.
000009     EVALUATE WNUM1
000010         TRUE
000011     WHEN 13
000012         WNUM2 IS NEGATIVE
000013         DISPLAY "OK"
000014     END-EVALUATE
000015 END PROGRAM      P2597.

```

P2597.cob 12: JMN2597I-S The sign condition cannot be specified for a selection subject or a selection object of an EVALUATE statement.

### JMN2598I-S

**The combination of relational operators in the condition is invalid.**

### Example

```

[P2598.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2598.
000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM        PIC S9(4) BINARY.
000007 PROCEDURE      DIVISION.
000008     IF WNUM EQUAL THAN 12 THEN
000009         DISPLAY "OK"
000010     END-IF
000011 END PROGRAM      P2598.

```

P2598.cob 8: JMN2598I-S The combination of relational operators in the condition is invalid.

### Explanation

Only the following relation operators can be used:

- IS GREATER THAN
- IS NOT GREATER THAN (a synonym of IS LESS THAN OR EQUAL TO)
- IS LESS THAN
- IS NOT LESS THAN (a synonym of IS GREATER THAN OR EQUAL TO)
- IS EQUAL TO
- IS NOT EQUAL TO
- IS GREATER THAN OR EQUAL TO (a synonym of IS NOT LESS THAN)
- IS LESS THAN OR EQUAL TO (a synonym of IS NOT GREATER THAN)

### JMN2599I-S

---

**NOT cannot be repeated as it is in this condition.**

#### Example

```
[P2599.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2599.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM          PIC S9(4) BINARY.
000007 PROCEDURE       DIVISION.
000008     IF NOT
000009         NOT WNUM EQUAL TO 12 THEN
000010         DISPLAY "OK"
000011     END-IF
000012 END PROGRAM      P2599.
```

P2599.cob 9: JMN2599I-S NOT cannot be repeated as it is in this condition.

### JMN2600I-S

---

**The operand of the condition is invalid.**

#### Example

```
[P2600.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2600.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE       DIVISION.
000007     IF 13 = THEN
000008         DISPLAY "OK".
000009 END PROGRAM      P2600.
```

P2600.cob 7: JMN2600I-S The operand of the condition is invalid.

### JMN2601I-S

---

**@2@ is specified instead of @1@. 1 is assumed.**

## Parameter Explanation

@1@ : Identifier or positive integer.

@2@ : Word which causes error.

## Example

```
[P2601.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2601.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WLOOP        PIC S9(4)V99 BINARY.
000007 PROCEDURE       DIVISION.
000008     PERFORM 10.5 TIMES
000009     DISPLAY "LOOP TEST"
000010     END-PERFORM
000011 END PROGRAM     P2601.
```

P2601.cob 8: JMN2601I-S 10.5 is specified instead of positive integer. 1 is assumed.

## Explanation

In the example above, the number of times should be described using an integer or a numeric item.

## JMN2602I-S

**The right parenthesis corresponding to the left parenthesis is missing. A right parenthesis is assumed.**

## Example

```
[P2602.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2602.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM1        PIC S9(9) BINARY.
000007 01 WNUM2        PIC S9(9) BINARY.
000008 01 WNUM3        PIC S9(9) BINARY.
000009 PROCEDURE       DIVISION.
000010     COMPUTE WNUM1 = WNUM1 *
000011     (WNUM2 - WNUM3
000012 END PROGRAM     P2602.
```

P2602.cob 11: JMN2602I-S The right parenthesis corresponding to the left parenthesis is missing. A right parenthesis is assumed.

## JMN2603I-S

**The @1@ statement cannot be specified in a declarative procedure with a global specified.**

## Parameter Explanation

@1@ : EXIT PROGRAM, EXIT METHOD or GOBACK.

## Example

```
[P2603.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2603.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
```

```

000007 DATA          DIVISION.
000008 FILE           SECTION.
000009 FD SQFILE1.
000010 01 SQF1REC.
000011 02             PIC X(80).
000012 WORKING-STORAGE SECTION.
000013 PROCEDURE      DIVISION.
000014 DECLARATIVES.
000015 FILE-ERROR-1 SECTION.
000016     USE GLOBAL AFTER STANDARD ERROR PROCEDURE ON SQFILE1.
000017     EXIT PROGRAM.
000018 END DECLARATIVES.
000019 END PROGRAM     P2603.

```

P2603.cob 17: JMN2603I-S The EXIT PROGRAM statement cannot be specified in a declarative procedure with a global specified.

## JMN2604I-S

**'@1@' in the USING phrase must be a level 01 or 77 item defined in the LINKAGE SECTION of this program.**

### Parameter Explanation

@1@ : Word that causes the error.

### Example

```

[P2604.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2604.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 LK1          PIC X.
000007 LINKAGE         SECTION.
000008 01 LK2.
000009 02 LK21        PIC X.
000010 01 LK3         PIC X.
000011 PROCEDURE      DIVISION USING LK1 LK21 LK3.
000012 END PROGRAM     P2604.

```

P2604.cob 11: JMN2604I-S 'LK1' in the USING phrase must be a level 01 or 77 item defined in the LINKAGE SECTION of this program.

P2604.cob 11: JMN2604I-S 'LK21' in the USING phrase must be a level 01 or 77 item defined in the LINKAGE SECTION of this program.

## JMN2605I-S

**Condition-name '@1@' specified in the SEARCH ALL statement must be defined as having a single value.**

### Parameter Explanation

@1@ : Condition-name that causes the error.

### Example

```

[P2605.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2605.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WDATA        OCCURS 10 INDEXED BY IX1
000008                   ASCENDING KEY IS WITM1.

```



```

000009      03 WITM1    PIC X.
000010      88 XVAL     VALUE "X", "x".
000011      03 WITM2    PIC X.
000012 PROCEDURE      DIVISION.
000013          SEARCH ALL WDATA
000014          WHEN XVAL(IX1)
000015              DISPLAY "OK"
000016          END-SEARCH
000017 END PROGRAM      P2605.

```

P2605.cob 14: JMN2605I-S Condition-name 'XVAL' specified in the SEARCH ALL statement must be defined as having a single value.

## JMN2606I-S

**An integer must be specified after '+' or '-' following the index-name. The subscript of that dimension is assumed to be 1.**

### Example

```

[P2606.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2606.
000003 ENVIRONMENT      DIVISION.
000004 DATA              DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WOCC          PIC X
000008                  OCCURS 10 INDEXED BY IX1.
000009 PROCEDURE          DIVISION.
000010     MOVE SPACE TO WOCC(IX1 + 3.5)
000011 END PROGRAM        P2606.

```

P2606.cob 10: JMN2606I-S An integer must be specified after '+' or '-' following the index-name. The subscript of that dimension is assumed to be 1.

### Explanation

If the operator is "+", the value is obtained by adding the value following the operator to the index-name value. If the operator is "-", the value is obtained by subtracting the value following the operator from the index-name value.

## JMN2607I-S

**A @2@ statement with a @1@ requiring execution at the same time can only be specified once.**

### Parameter Explanation

@1@ : Word that causes the error.

@2@ : USE ERROR, USE LABEL or USE BEFORE REPORTING.

### Example

```

[P2607.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2607.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT REPF1   ASSIGN TO SYS002.
000008 I-O-CONTROL.
000009 DATA              DIVISION.
000010 FILE                SECTION.
000011 FD SQFILE1.

```

```

000012 01 SQF1REC      PIC X(80).
000013 FD REPPFILE
000014      REPORT IS REP1.
000015 WORKING-STORAGE SECTION.
000016 01 WFS1         PIC X(2).
000017 REPORT          SECTION.
000018 RD REP1 PAGE 66.
000019 01 DE-REC TYPE DE.
000020 02 LINE PLUS 1.
000021 03 COLUMN 1 PIC X(80) SOURCE SQF1REC.
000022 PROCEDURE        DIVISION.
000023 DECLARATIVES.
000024 FILE-ERROR-1 SECTION.
000025      USE BEFORE REPORTING DE-REC.
000026      DISPLAY "ERROR PROC-1".
000027 FILE-ERROR-2 SECTION.
000028      USE BEFORE REPORTING DE-REC.
000029      DISPLAY "ERROR PROC-2".
000030 END DECLARATIVES.
000031 END PROGRAM      P2607.

```

P2607.cob 28: JMN2607I-S A USE BEFORE REPORTING statement with a DE-REC requiring execution at the same time can only be specified once.

### Explanation

In the USE statement, the USE procedure that executes at a certain state (an I-O exception has occurred, prior to generating a report, etc.) is specified. Two or more different USE procedures cannot be executed at the same time for the same object.

### JMN2608I-S

**Only one @1@ statement can be specified in the outermost program.**

### Parameter Explanation

@1@ : USE FOR DEAD-LOCK

### Example

```

[P2608.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2608.
000003 ENVIRONMENT      DIVISION.
000004 DATA             DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE        DIVISION.
000007      CALL "P2608SUB"
000008      STOP RUN.
000009*
000010 IDENTIFICATION DIVISION.
000011 PROGRAM-ID.      P2608SUB.
000012 PROCEDURE        DIVISION.
000013 DECLARATIVES.
000014 ERROR-1 SECTION.
000015      USE FOR DEAD-LOCK.
000016      EXIT PROGRAM.
000017 END DECLARATIVES.
000018 END PROGRAM      P2608SUB.
000019 END PROGRAM      P2608.

```

P2608.cob 15: JMN2608I-S Only one USE FOR DEAD-LOCK statement can be specified in the outermost program.

## Explanation

The USE FOR DEAD-LOCK statement specifies the procedure to be executed when a deadlock occurs. The specified procedure is executed by the transaction control system.

## JMN2609I-S

---

**The USE DEBUGGING statement must be specified first in DECLARATIVES.**

### Example

```
[P2609.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2609.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE       DIVISION.
000007 DECLARATIVES.
000008 ERROR-1 SECTION.
000009     USE FOR DEAD-LOCK.
000010     EXIT PROGRAM.
000011 ERROR-2 SECTION.
000012     USE DEBUGGING MODE
000013     EXIT PROGRAM.
000014 END DECLARATIVES.
000015 END PROGRAM      P2609.
```

P2609.cob 12: JMN2609I-S The USE DEBUGGING statement must be specified first in DECLARATIVES.

## Explanation

The USE DEBUGGING statement is specific to the OSIV-series.

## JMN2610I-S

---

**Data-name '@1@' specified in the KEY phrase must be a data-name of the sort-merge file specified for this SORT or MERGE statement.**

### Parameter Explanation

@1@ : Data name that causes the error.

### Example

```
[P2610.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2610.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT SQFILE2 ASSIGN TO SYS002.
000008     SELECT SRTFILE ASSIGN TO SYS003.
000009 I-O-CONTROL.
000010 DATA            DIVISION.
000011 FILE            SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02 SRTKEY     PIC X(8).
000015 02           PIC X(72).
000016 FD SQFILE2.
000017 01 SQF2REC.
000018 02 SRTKEY     PIC X(8).
000019 02           PIC X(72).
```

```

000020 SD SRTFILE.
000021 01 SRTREC.
000022 02 SRTKEY PIC X(8).
000023 02 PIC X(72).
000024 WORKING-STORAGE SECTION.
000025 01 WFS1 PIC X(2).
000026 PROCEDURE DIVISION.
000027 SORT SRTFILE
000028 ASCENDING KEY SRTKEY OF SQFILE1
000029 USING SQFILE1
000030 GIVING SQFILE2.
000031 END PROGRAM P2610.

```

P2610.cob 28: JMN2610I-S Data-name 'SRTKEY' specified in the KEY phrase must be a data-name of the sort-merge file specified for this SORT or MERGE statement.

### Explanation

The key items (data-name specified in the KEY clause) are compared, and the sorting and merging is done. The key item should be a record in the target sort-merge file.

### JMN2611I-S

**Mnemonic-name '@1@' specified for the ASCENDING phrase in the SORT or MERGE statement must correspond to function-name BUSHU, SOKAKU, ON-YOMI, KUN-YOMI, BUSHOU, HUASHU, DUYIN, BUSU, HOEK or JAMO.**

### Parameter Explanation

@1@ : Mnemonic-name that causes the error.

### Example

```

[P2611.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2611.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006 SYSOUT IS SORT-RULE1.
000007 INPUT-OUTPUT SECTION.
000008 FILE-CONTROL.
000009 SELECT SQFILE1 ASSIGN TO SYS001.
000010 SELECT SQFILE2 ASSIGN TO SYS002.
000011 SELECT SRTFILE ASSIGN TO SYS003.
000012 I-O-CONTROL.
000013 DATA DIVISION.
000014 FILE SECTION.
000015 FD SQFILE1.
000016 01 SQF1REC.
000017 02 PIC X(80).
000018 FD SQFILE2.
000019 01 SQF2REC.
000020 02 PIC X(80).
000021 SD SRTFILE.
000022 01 SRTREC.
000023 02 SRTKEY PIC X(8).
000024 02 PIC X(72).
000025 WORKING-STORAGE SECTION.
000026 01 WFS1 PIC X(2).
000027 PROCEDURE DIVISION.
000028 SORT SRTFILE
000029 ASCENDING SORT-RULE1 KEY SRTKEY
000030 USING SQFILE1

```

```

000031      GIVING SQFILE2.
000032 END PROGRAM      P2611.

```

P2611.cob 29: JMN2611I-S Mnemonic-name 'SORT-RULE1' specified for the ASCENDING phrase in the SORT or MERGE statement must correspond to function-name BUSHU, SOKAKU, ON-YOMI, KUN-YOMI, BUSHOU, HUASHU, DUYIN, BUSU, HOEK or JAMO.

### Explanation

The mnemonic-name specified in the ASCENDING phrase of a SORT/MERGE statement is specific to the OSIV-series.

## JMN2613I-S

**The mnemonic-name corresponding to the Japanese, Chinese, or Korean function-name must exclusively be specified in the ASCENDING phrase of a SORT or MERGE statement.**

### Example

```

[P2613.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2613.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006      BUSHU IS SORT-RULE1
000007      BUSHOU IS SORT-RULE2.
000008 INPUT-OUTPUT    SECTION.
000009 FILE-CONTROL.
000010      SELECT SQFILE1 ASSIGN TO SYS001.
000011      SELECT SQFILE2 ASSIGN TO SYS002.
000012      SELECT SRTFILE ASSIGN TO SYS003.
000013 I-O-CONTROL.
000014 DATA            DIVISION.
000015 FILE             SECTION.
000016 FD SQFILE1.
000017 01 SQF1REC.
000018 02                PIC X(80).
000019 FD SQFILE2.
000020 01 SQF2REC.
000021 02                PIC X(80).
000022 SD SRTFILE.
000023 01 SRTREC.
000024 02 SRTKEY1      PIC X(4).
000025 02 SRTKEY2      PIC X(4).
000026 02                PIC X(72).
000027 WORKING-STORAGE SECTION.
000028 01 WFS1          PIC X(2).
000029 PROCEDURE       DIVISION.
000030      SORT SRTFILE
000031          ASCENDING SORT-RULE1 KEY SRTKEY1
000032          ASCENDING SORT-RULE2 KEY SRTKEY2
000033          USING SQFILE1
000034          GIVING SQFILE2.
000035 END PROGRAM      P2613.

```

P2613.cob 30: JMN2613I-S The mnemonic-name corresponding to the Japanese, Chinese, or Korean function-name must exclusively be specified in the ASCENDING phrase of a SORT or MERGE statement.

### Explanation

The mnemonic-name specified in the ASCENDING phrase of a SORT/MERGE statement is specific to the OSIV-series.

## JMN2615I-S

---

**The AFTER phrase cannot be specified for an in-line PERFORM statement.**

**Example**

```
[P2615.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2615.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WLOOP1       PIC S9(4) BINARY.
000007 01 WLOOP2       PIC S9(4) BINARY.
000008 PROCEDURE       DIVISION.
000009     PERFORM TEST BEFORE
000010         VARYING WLOOP1 FROM 1 BY 1 UNTIL WLOOP1 = 20
000011         AFTER  WLOOP2 FROM 5 BY 1 UNTIL WLOOP2 = 25
000012         DISPLAY "LOOP TEST"
000013     END-PERFORM
000014 END PROGRAM      P2615.
```

P2615.cob 11: JMN2615I-S The AFTER phrase cannot be specified for an in-line PERFORM statement.

**Explanation**

The AFTER phrase is specified if two or more data items or indexes would be changed according to the repetitive execution. In the in-line PERFORM statement, only one data item (or one index) will be changed according to the repetitive execution.

**JMN2616I-S**

---

**The left parenthesis corresponding to the right parenthesis is missing. The extra right parenthesis is ignored.**

**Example**

```
[P2616.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2616.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WDATA         OCCURS 10 INDEXED BY IX1
000008                     ASCENDING KEY IS WITM1.
000009 03 WITM1           PIC X.
000010 88 XVAL           VALUE "X" .
000011 03 WITM2         PIC X.
000012 PROCEDURE       DIVISION.
000013     SEARCH ALL WDATA
000014     WHEN XVAL(IX1))
000015     DISPLAY "OK"
000016     END-SEARCH
000017 END PROGRAM      P2616.
```

P2616.cob 14: JMN2616I-S The left parenthesis corresponding to the right parenthesis is missing. The extra right parenthesis is ignored.

**JMN2617I-S**

---

**The invalid word THEN is specified. THEN is ignored.**

**Example**

```
[P2617.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2617.
000003 ENVIRONMENT     DIVISION.
```

```

000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM         PIC S9(9) BINARY.
000007 PROCEDURE      DIVISION.
000008*   IF WNUM = 10
000009     THEN
000010         DISPLAY "OK".
000011 END PROGRAM    P2617.

```

P2617.cob 9: JMN2617I-S The invalid word THEN is specified. THEN is ignored.

### Explanation

In the above example, a THEN phrase is erroneously included in the IF statement.

## JMN2633I-S

### The SQL statement is invalid. @1@.

#### Parameter Explanation

@1@ : Diagnostic message returned by the built-in SQL parser.

#### Example

```

[P2633.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2633.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE      PIC X(5).
000008     EXEC SQL END   DECLARE SECTION END-EXEC.
000009 PROCEDURE         DIVISION.
000010     EXEC SQL
000011         DECLARE CUR1 CURSOR
000012             SELECT * FROM T1
000013     END-EXEC.
000014 END PROGRAM      P2633.

```

P2633.cob 11: JMN2633I-S The SQL statement is invalid. ODBC-8356E QUERY EXPRESSION OR SQL STATEMENT IDENTIFIER IS MISSING..

### Explanation

This diagnostic message is output when an error has been detected in analyzing an embedded SQL statement (a SQL statement enclosed by 'EXEC SQL' and 'END-EXEC') described in the procedure division.

## JMN2634I-S

### Cursor name '@1@' is not defined.

#### Parameter Explanation

@1@ : Cursor name that causes the error.

#### Example

```

[P2634.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2634.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.

```

```

000007 01 SQLSTATE PIC X(5).
000008 EXEC SQL END DECLARE SECTION END-EXEC.
000009 PROCEDURE DIVISION.
000010 EXEC SQL
000011 OPEN CUR1
000012 END-EXEC
000013 END PROGRAM P2634.

```

P2634.cob 11: JMN2634I-S Cursor name 'CUR1' is not defined.

### Explanation

The cursor is the row indicator specifying a row in a table.

The cursor name is defined in a cursor declarative. A cursor declaration must appear before any SQL statement using the cursor.

## JMN2639I-S

**The invalid word '@1@' follows a THROUGH (THRU) phrase in a selection object of an EVALUATE statement. The THROUGH (THRU) phrase is ignored.**

### Parameter Explanation

@1@ : Word that caused the error.

### Example

```

[P2639.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2639.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM PIC X.
000007 PROCEDURE DIVISION.
000008 EVALUATE WNUM
000009 WHEN "A" THRU "Z"
000010 DISPLAY "ALPHABETIC"
000011 WHEN "0" THRU
000012 DISPLAY "NUMERIC"
000013 END-EVALUATE
000014 END PROGRAM P2639.

```

P2639.cob 11: JMN2639I-S The invalid word 'DISPLAY' follows a THROUGH (THRU) phrase in a selection object of an EVALUATE statement. The THROUGH (THRU) phrase is ignored.

### Explanation

If the THROUGH(THRU) phrase is specified in a WHEN phrase, the two operands combined by the THROUGH phrase are considered to be one selection object.

## JMN2640I-S

**An END-PERFORM phrase must be specified in the in-line PERFORM statement. END-PERFORM is assumed.**

### Example

```

[P2640.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2640.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE DIVISION.

```



```

000007     PERFORM WITH NO LIMIT
000008         DISPLAY "LOOP TEST" .
000009 END PROGRAM     P2640 .

```

P2640.cob 8: JMN2640I-S An END-PERFORM phrase must be specified in the in-line PERFORM statement. END-PERFORM is assumed.

#### Explanation

The explicit range terminator END-PERFORM must be specified to identify the group of statements repeated by the in-line PERFORM statement.

### JMN2641I-S

**The word SENTENCE is not specified in NEXT SENTENCE. The word SENTENCE is assumed.**

#### Example

```

[P2641.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2641.
000003 ENVIRONMENT    DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM         PIC S9(10) .
000007 PROCEDURE      DIVISION.
000008     IF WNUM = 10 THEN
000009         DISPLAY "OK"
000010     ELSE
000011         NEXT
000012     .
000013 END PROGRAM     P2641 .

```

P2641.cob 12: JMN2641I-S The word SENTENCE is not specified in NEXT SENTENCE. The word SENTENCE is assumed.

#### Explanation

The word SENTENCE is a required word in the NEXT SENTENCE phrase.

### JMN2642I-S

**The word '@2@' is not specified in '@1@'. The word '@2@' is assumed.**

#### Parameter Explanation

@1@ : ON SIZE ERROR

@2@ : ERROR

#### Example

```

[P2642.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2642.
000003 ENVIRONMENT    DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM1        PIC S9(4) BINARY.
000007 01 WNUM2        PIC S9(4) BINARY.
000008 PROCEDURE      DIVISION.
000009     COMPUTE WNUM1 = WNUM1 * WNUM2
000010         ON SIZE
000011         DISPLAY "ERROR"
000012     END-COMPUTE .
000013 END PROGRAM     P2642 .

```

P2642.cob 11: JMN2642I-S The word 'ERROR' is not specified in 'ON SIZE ERROR'. The word 'ERROR' is assumed.

#### Explanation

The word ERROR is a required word in the ON SIZE ERROR phrase.

### JMN2643I-S

---

**The @1@ statement cannot be used when a SUBSCHEMA-NAME paragraph is not specified.**

#### Parameter Explanation

@1@ : CONNECT, DISCONNECT, ERASE, GET, FINISH, IF DB-EXCEPTION, MODIFY, READY or STORE.

#### Example

```
[P2643.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2643.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE       DIVISION.
000007     READY "MNAAB".
000008 END PROGRAM     P2643.
```

P2643.cob 7: JMN2643I-S The READY statement cannot be used when a SUBSCHEMA-NAME paragraph is not specified.

#### Explanation

When using a statement for a network database, the subschema descriptor file which converts the logical structure of the network database into the COBOL record must be specified in the SUBSCHEMA-NAME paragraph in the CONFIGURATION SECTION of the ENVIRONMENT DIVISION.

### JMN2644I-S

---

**'@2@' cannot be specified in a @1@ statement.**

#### Parameter Explanation

@1@ : Verb of the sentence where the error occurs.

@2@ : Word that causes the error.

#### Example

```
[P2644.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2644.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE       DIVISION.
000007     STOP N" S T O P ".
000008 END PROGRAM     P2644.
```

P2644.cob 7: JMN2644I-S 'national literal' cannot be specified in a STOP statement.

### JMN2645I-W

---

**The numeric literal of the EXAMINE statement must be unsigned. The sign is ignored.**

#### Example

```
[P2645.cob]
000001 IDENTIFICATION DIVISION.
```

```

000002 PROGRAM-ID.      P2645.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM          PIC S9(18).
000007 PROCEDURE        DIVISION.
000008     EXAMINE WNUM
000009         TALLYING ALL -9
000010 END PROGRAM      P2645.

```

P2645.cob 9: JMN2645I-W The numeric literal of the EXAMINE statement must be unsigned. The sign is ignored.

### Explanation

The EXAMINE statement is specific to the OSIV-series.

### JMN2650I-I

**(CONF) The explicit scope terminator '@1@' is assumed to correspond with the previous @2@ statement.**

#### Parameter Explanation

@1@ : ADD, DIVIDE, MULTIPLY, SUBTRACT, COMPUTE, DELETE, END-ADD, END-DIVIDE, END-MULTIPLY, END-SUBTRACT, END-COMPUTE, END-DELETE, END-STRING, END-UNSTRING, END-INVOKE, END-CALL, END-READ, END-START, END-REWRITE or END-WRITE.

@2@ : ADD, DIVIDE, MULTIPLY, SUBTRACT, COMPUTE, DELETE, STRING, UNSTRING, INVOKE, CALL, READ, START, REWRITE or WRITE.

#### Example

```

[P2650.cob]
000001 @OPTIONS CONF(74)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P2650.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 WNUM1          PIC S9(4) BINARY.
000008 01 WNUM2          PIC S9(4) BINARY.
000009 01 WNUM3          PIC S9(4) BINARY.
000010 PROCEDURE        DIVISION.
000011     COMPUTE WNUM1 = WNUM2 + WNUM3
000012     END-COMPUTE
000013 END PROGRAM      P2650.

```

P2650.cob 12: JMN2650I-I (CONF) The explicit scope terminator 'END-COMPUTE' is assumed to correspond with the previous COMPUTE statement.

### Explanation

CONF is effective when a program created according to the existing standard is changed to '85 ANSI COBOL. Specify CONF to indicate incompatibility between old and new COBOL standards; otherwise, specify NOCONF. The compiler options CONF(68) and CONF(74) are effective only if the compiler option LANGLVL(85) is specified.

### JMN2651I-W

**The numeric literal and the sign are separated. The sign and the numeric literal are assumed to be concatenated.**

#### Example

```

[P2651.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2651.

```

```

000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM        PIC S9(4) BINARY.
000007 PROCEDURE      DIVISION.
000008     MOVE + 12 TO WNUM
000009 END PROGRAM     P2651.

```

P2651.cob 8: JMN2651I-W The numeric literal and the sign are separated. The sign and the numeric literal are assumed to be concatenated.

### Explanation

Do not put a separator space between the sign and the numeric literal when describing the signed numeric literal.

## JMN2654I-S

**File '@1@' in the USE LABEL statement must be a sequential, direct organization, or relative organization file. The '@1@' file is ignored.**

### Parameter Explanation

@1@ : File name that causes an error.

### Example

```

[P2654.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2654.
000003 ENVIRONMENT    DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IXFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     RECORD KEY RKEY.
000009 I-O-CONTROL.
000010 DATA          DIVISION.
000011 FILE          SECTION.
000012 FD IXFILE1 LABEL RECORD STANDARD.
000013 01 IXF1REC.
000014 02 RKEY        PIC X(8).
000015 02             PIC X(72).
000016 01 LREC       PIC X(80).
000017 WORKING-STORAGE SECTION.
000018 PROCEDURE      DIVISION.
000019 DECLARATIVES.
000020 ER1 SECTION.
000021     USE AFTER STANDARD ENDING FILE
000022     LABEL PROCEDURE ON IXFILE1.
000023 END DECLARATIVES.
000024 END PROGRAM     P2654.

```

P2654.cob 22: JMN2654I-S File 'IXFILE1' in the USE LABEL statement must be a sequential, direct organization, or relative organization file. The 'IXFILE1' file is ignored.

### Explanation

The USE LABEL statement is specific to the OSIV-series.

## JMN2656I-S

**A data-name must be specified by the LABEL RECORD clause for file '@1@' specified in the USE LABEL statement. '@1@' is ignored.**

## Parameter Explanation

@1@ : File name that causes the error.

## Example

```
[P2656.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2656.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA             DIVISION.
000009 FILE              SECTION.
000010 FD SQFILE1.
000011 01 SQF1REC.
000012 02              PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE        DIVISION.
000015 DECLARATIVES.
000016 ER1 SECTION.
000017     USE AFTER STANDARD ENDING FILE
000018         LABEL PROCEDURE ON SQFILE1.
000019 END DECLARATIVES.
000020 END PROGRAM      P2656.
```

P2656.cob 18: JMN2656I-S A data-name must be specified by the LABEL RECORD clause for file 'SQFILE1' specified in the USE LABEL statement. 'SQFILE1' is ignored.

## Explanation

The USE LABEL statement is specific to the OSIV-series.

## JMN2657I-S

---

**REEL and UNIT cannot be specified for file '@1@' in the random access mode.**

## Parameter Explanation

@1@ : File name that causes the error.

## Example

```
[P2657.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2657.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO R-SYS001
000007         RELATIVE KEY IS RKEY
000008         ACCESS MODE RANDOM.
000009 I-O-CONTROL.
000010 DATA             DIVISION.
000011 FILE              SECTION.
000012 FD SQFILE1 LABEL RECORD LREC.
000013 01 SQF1REC.
000014 02              PIC X(80).
000015 01 LREC          PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 01 RKEY          PIC 9(8) BINARY.
000018 PROCEDURE        DIVISION.
000019 DECLARATIVES.
```

```

000020 ER1 SECTION.
000021     USE AFTER STANDARD ENDING REEL
000022         LABEL PROCEDURE ON SQFILE1.
000023 END DECLARATIVES.
000024 END PROGRAM     P2657.

```

P2657.cob 22: JMN2657I-S REEL and UNIT cannot be specified for file 'SQFILE1' in the random access mode.

### Explanation

When the REEL phrase or the UNIT phrase is written, the file-name specified for the USE statement should be a record sequential file or a print file without the FORMAT clause.

## JMN2658I-S

### The USE LABEL statement with BEFORE is not supported.

#### Example

```

[P2658.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2658.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1 LABEL RECORD LREC.
000011 01 SQF1REC.
000012 02             PIC X(80).
000013 01 LREC        PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE       DIVISION.
000016 DECLARATIVES.
000017 ER1 SECTION.
000018     USE BEFORE STANDARD ENDING FILE
000019         LABEL PROCEDURE ON SQFILE1.
000020 END DECLARATIVES.
000021 END PROGRAM     P2658.

```

P2658.cob 18: JMN2658I-S The USE LABEL statement with BEFORE is not supported.

### Explanation

The USE LABEL statement is specific to the OSIV-series.

## JMN2659I-S

### '@1@' in the USE BEFORE REPORTING statement must be a report group name.

#### Parameter Explanation

@1@ : User-defined word that causes the error.

#### Example

```

[P2659.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2659.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.

```

```

000007 DATA          DIVISION.
000008 FILE           SECTION.
000009 FD SQFILE1.
000010 01 SQF1REC.
000011 02             PIC X(80).
000012 WORKING-STORAGE SECTION.
000013 PROCEDURE      DIVISION.
000014 DECLARATIVES.
000015 BR-PROC SECTION.
000016     USE BEFORE REPORTING SQFILE1.
000017 END DECLARATIVES.
000018 END PROGRAM     P2659.

```

P2659.cob 16: JMN2659I-S 'SQFILE1' in the USE BEFORE REPORTING statement must be a report group name.

### Explanation

The USE BEFORE REPORTING procedure is executed immediately before the specified report group is created and displayed.

## JMN2660I-S

### The syntax of the WHENEVER statement is invalid.

#### Example

```

[P2660.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2660.
000003 ENVIRONMENT      DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE        DIVISION.
000007     EXEC SQL
000008         WHENEVER SQLERROR GO TO
000009     END-EXEC.
000010 END PROGRAM       P2660.

```

P2660.cob 8: JMN2660I-S The syntax of the WHENEVER statement is invalid.

### Explanation

Check for the following syntax errors in the embedded exception declaration WHENEVER:

- The word just after 'WHENEVER' is neither 'SQLERROR' nor 'NOT FOUND'.
- The word just after 'NOT' is not 'FOUND'.
- The word just after 'SQLERROR' or 'NOT FOUND' is neither 'GO TO' nor 'GOTO' nor 'CONTINUE'.
- The word just after 'GO' is not 'TO'.
- The word just after 'GO TO' or 'GOTO' is not a colon(:).
- The procedure-name is not written just after the colon.
- The procedure-name is not suitable - it is a name that exceeds 30 characters, a modification mistake or a name that begins or ends with a hyphen.

## JMN2662I-S

### The procedure-name '@1@' in the effective WHENEVER statement is undefined or multi-defined. The GO TO procedure-name is replaced by CONTINUE.

#### Parameter Explanation

@1@ : Procedure-name which causes error.

## Example

```
[P2662.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2662.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE      PIC X(5).
000008     EXEC SQL END   DECLARE SECTION END-EXEC.
000009 PROCEDURE        DIVISION.
000010     EXEC SQL
000011         WHENEVER SQLERROR GO TO :ERR-1
000012     END-EXEC.
000013*
000014     EXEC SQL
000015         DECLARE CUR1 CURSOR FOR
000016             SELECT *
000017     END-EXEC
000018*
000019     EXEC SQL
000020         OPEN CUR1
000021     END-EXEC
000022 END PROGRAM      P2662.
```

P2662.cob 20: JMN2662I-S The procedure-name 'ERR-1' in the effective WHENEVER statement is undefined or multi-defined. The GO TO procedure-name is replaced by CONTINUE.

## JMN2663I-S

**The identifier '@1@' in the effective WHENEVER statement must be a procedure-name. The GO TO procedure-name is replaced by CONTINUE.**

### Parameter Explanation

@1@ : User-defined word that causes the error.

## Example

```
[P2663.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2663.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE      PIC X(5).
000008     EXEC SQL END   DECLARE SECTION END-EXEC.
000009 01 PROC-NAME     PIC X(8).
000010 PROCEDURE        DIVISION.
000011     EXEC SQL
000012         WHENEVER SQLERROR GO TO :PROC-NAME
000013     END-EXEC.
000014*
000015     EXEC SQL
000016         DECLARE CUR1 CURSOR FOR
000017             SELECT *
000018     END-EXEC
000019*
000020     EXEC SQL
000021         OPEN CUR1
000022     END-EXEC
000023 END PROGRAM      P2663.
```



P2663.cob 21: JMN2663I-S The identifier 'PROC-NAME' in the effective WHENEVER statement must be a procedure-name. The GO TO procedure-name is replaced by CONTINUE.

### JMN2665I-S ([Win32])

'@1@' must be 136 bytes and defined in the WORKING-STORAGE SECTION. The GIVING phrase is ignored.

#### Parameter Explanation

@1@ : Data name that causes the error.

#### Example

```
[P2665.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2665.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1.
000011 01 SQF1REC.
000012 02              PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 01 ERRINFO      PIC X(20).
000015 PROCEDURE      DIVISION.
000016 DECLARATIVES.
000017 ERR1           SECTION.
000018     USE AFTER STANDARD ERROR
000019     PROCEDURE ON SQFILE1
000020     GIVING ERRINFO.
000021 END DECLARATIVES.
000022 END PROGRAM     P2665.
```

P2665.cob 20: JMN2665I-S 'ERRINFO' must be 136 bytes and defined in the WORKING-STORAGE SECTION. The GIVING phrase is ignored.

#### Explanation

The GIVING phrase of the USE statement is specific to the OSIV-series.

### JMN2665I-S ([Winx64])

'@1@' must be 136 bytes and defined in the WORKING-STORAGE SECTION or LOCAL-STORAGE SECTION. The GIVING phrase is ignored.

#### Parameter Explanation

@1@ : Data name that causes the error.

#### Example

```
[P2665.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2665.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
```

```

000009 FILE          SECTION.
000010 FD SQFILE1 .
000011 01 SQF1REC .
000012 02            PIC X(80) .
000013 WORKING-STORAGE SECTION.
000014 01 ERRINFO    PIC X(20) .
000015 PROCEDURE      DIVISION.
000016 DECLARATIVES .
000017 ERR1          SECTION.
000018      USE AFTER STANDARD ERROR
000019          PROCEDURE ON SQFILE1
000020          GIVING ERRINFO .
000021 END DECLARATIVES .
000022 END PROGRAM    P2665 .

```

P2665.cob 20: JMN2665I-S 'ERRINFO' must be 136 bytes and defined in the WORKING-STORAGE SECTION or LOCAL-STORAGE SECTION. The GIVING phrase is ignored.

### Explanation

The GIVING phrase of the USE statement is specific to the OSIV-series.

### JMN2666I-S ([Win32])

**'@1@' must be defined in the WORKING-STORAGE SECTION or the LINKAGE SECTION. '@1@' is ignored.**

### Parameter Explanation

@1@ : Data name that causes the error.

### Example

```

[P2666.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2666 .
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL .
000006      SELECT SQFILE1 ASSIGN TO SYS001 .
000007 I-O-CONTROL .
000008 DATA            DIVISION.
000009 FILE            SECTION.
000010 FD SQFILE1 .
000011 01 SQF1REC .
000012 02            PIC X(80) .
000013 WORKING-STORAGE SECTION.
000014 01 ERRINFO1     PIC X(136) .
000015 CONSTANT       SECTION.
000016 01 ERRINFO2     PIC X(20) VALUE SPACE .
000017 PROCEDURE      DIVISION.
000018 DECLARATIVES .
000019 ERR1          SECTION.
000020      USE AFTER STANDARD ERROR
000021          PROCEDURE ON SQFILE1
000022          GIVING ERRINFO1 ERRINFO2 .
000023 END DECLARATIVES .
000024 END PROGRAM    P2666 .

```

P2666.cob 22: JMN2666I-S 'ERRINFO2' must be defined in the WORKING-STORAGE SECTION or the LINKAGE SECTION. 'ERRINFO2' is ignored.

### Explanation

The GIVING phrase of the USE statement is specific to the OSIV-series.

## JMN2666I-S ([Winx64])

**'@1@' must be defined in the WORKING-STORAGE SECTION, the LOCAL-STORAGE SECTION or the LINKAGE SECTION. '@1@' is ignored.**

### Parameter Explanation

@1@ : Data name that causes the error.

### Example

```
[P2666.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2666.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1.
000011 01 SQF1REC.
000012 02              PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 01 ERRINFO1     PIC X(136).
000015 CONSTANT        SECTION.
000016 01 ERRINFO2     PIC X(20) VALUE SPACE.
000017 PROCEDURE      DIVISION.
000018 DECLARATIVES.
000019 ERR1            SECTION.
000020     USE AFTER STANDARD ERROR
000021     PROCEDURE ON SQFILE1
000022     GIVING ERRINFO1 ERRINFO2.
000023 END DECLARATIVES.
000024 END PROGRAM      P2666.
```

P2666.cob 22: JMN2666I-S 'ERRINFO2' must be defined in the WORKING-STORAGE SECTION, the LOCAL-STORAGE SECTION or the LINKAGE SECTION. 'ERRINFO2' is ignored.

### Explanation

The GIVING phrase of the USE statement is specific to the OSIV-series.

## JMN2669I-E

**A procedure-name '@1@' is specified in the USING phrase of the CALL statement. The result is not guaranteed in this system.**

### Parameter explanation

@1@ : Procedure-name which caused the error.

### Example

```
[C2669.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C2669.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 P1            PIC X(4).
000007 PROCEDURE      DIVISION.
000008     CALL "SUB2669" USING P1.
000009 P1.
```

```
000010      EXIT PROGRAM.
000011 END PROGRAM      C2669.
```

C2669.cob 8: JMN2669I-E A procedure-name 'P1' is specified in the USING phrase of the CALL statement. The result is not guaranteed in this system.

### Explanation

The following are the most likely causes:

- The procedure-name is specified for the USING phrase in the CALL statement. Refer to the "NetCOBOL Language Reference" and correct the format.
- An identifier of the same name as procedure-name is specified for the USING phrase in the CALL statement. Change the procedure-name or the identifier name to a different name.

## JMN2670I-S

**The @1@ statement can only be coded once in a program.**

### Parameter Explanation

@1@ : USE FOR DB-EXCEPTION

### Example

```
[P2670.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2670.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE       DIVISION.
000007 DECLARATIVES.
000008 ERROR-1 SECTION.
000009      USE FOR DB-EXCEPTION.
000010 ERROR-2 SECTION.
000011      USE FOR DB-EXCEPTION.
000012 END DECLARATIVES.
000013 END PROGRAM     P2670.
```

P2670.cob 11: JMN2670I-S The USE FOR DB-EXCEPTION statement can only be coded once in a program.

### Explanation

The USE FOR DB-EXCEPTION statement is specific to the OSIV-series.

## JMN2671I-S

**':' must be specified in the reference modifier. ':' is assumed.**

### Example

```
[P2671.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2671.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WBUF          PIC X(20).
000007 PROCEDURE       DIVISION.
000008      MOVE SPACE TO WBUF(1 2)
000009 END PROGRAM     P2671.
```

P2671.cob 8: JMN2671I-S ':' must be specified in the reference modifier. ':' is assumed.

## Explanation

Reference modification adds a reference modifier to the data-name or function-identifier. A reference modifier is written as follows:

One left parenthesis is written after the data-name or function-name.

The arithmetic expression that shows the high-order-end-character-position is described following the left parenthesis.

The arithmetic expression is followed by a colon(:).

The arithmetic expression that shows length in which the part is referred is described following the colon.

The right parenthesis follows the arithmetic expression.

A separator space can be included immediately before or after the colon. The colon must be included, even though the arithmetic expression that shows length can be omitted.

## JMN2672I-S

### The @1@ phrase contains no valid operand.

#### Parameter Explanation

@1@ : USING, RETURNING, or KEY.

#### Example

```
[P2672.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2672.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT SQFILE2 ASSIGN TO SYS002.
000008     SELECT SRTFILE ASSIGN TO SYS003.
000009 I-O-CONTROL.
000010 DATA            DIVISION.
000011 FILE             SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02 SRTKEY       PIC X(8).
000015 02              PIC X(72).
000016 FD SQFILE2.
000017 01 SQF2REC.
000018 02 SRTKEY       PIC X(8).
000019 02              PIC X(72).
000020 SD SRTFILE.
000021 01 SRTREC.
000022 02 SRTKEY       PIC X(8).
000023 02              PIC X(72).
000024 WORKING-STORAGE SECTION.
000025 01 WFS1          PIC X(2).
000026 PROCEDURE      DIVISION.
000027     SORT SRTFILE
000028         ASCENDING KEY SRTKEY OF SQFILE1
000029         USING SQFILE1
000030         GIVING SQFILE2.
000031 END PROGRAM      P2672.
```

P2672.cob 28: JMN2672I-S The KEY phrase contains no valid operand.

## Explanation

An error was found in the specified operands. Remove the error that is referenced in the output diagnostic message.

## JMN2673I-S

**Invalid word @2@ appears in the @1@ statement.**

### Parameter Explanation

@1@ : SEARCH or SEARCH ALL.

@2@ : Invalid word

### Example

```
[P2673.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2673.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WDATA        OCCURS 10 INDEXED BY IX1
000008                      ASCENDING KEY IS WITM1.
000009 03 WITM1        PIC X.
000010 03 WITM2        PIC X.
000011 PROCEDURE       DIVISION.
000012 SEARCH ALL WDATA VARYING IX1
000013 WHEN WITM1 (IX1) = "X"
000014 DISPLAY "OK"
000015 END-SEARCH
000016 END PROGRAM      P2673.
```

P2673.cob 12: JMN2673I-S Invalid word VARYING appears in the SEARCH ALL statement.

## JMN2682I-W

**A parenthesis cannot be specified in an abbreviated combined relation condition. The parenthesis is assumed to be valid.**

### Example

```
[P2682.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2682.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 D1             PIC X(1).
000007 PROCEDURE       DIVISION.
000008 IF D1 >= "A" AND
000009     <= ("Z" OR "z") THEN
000010 DISPLAY "OK"
000011 ELSE
000012 DISPLAY "OK"
000013 END-IF
000014 END PROGRAM      P2682.
```

P2682.cob 8: JMN2682I-W A parenthesis cannot be specified in an abbreviated combined relation condition. The parenthesis is assumed to be valid.

## JMN2686I-S

**The cursor name '@1@' is already defined.**

### Parameter Explanation

@1@ : Cursor name that causes the error.

## Example

```
[P2686.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2686.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE      PIC X(5).
000008     EXEC SQL END   DECLARE SECTION END-EXEC.
000009 PROCEDURE        DIVISION.
000010     EXEC SQL
000011         DECLARE CUR1 CURSOR FOR
000012             SELECT C1, C2 WHERE N1 = 10
000013     END-EXEC
000014     EXEC SQL
000015         DECLARE CUR1 CURSOR FOR
000016             SELECT C1, C2 WHERE N1 = 12
000017     END-EXEC
000018 END PROGRAM        P2686.
```

P2686.cob 15: JMN2686I-S The cursor name 'CUR1' is already defined.

## Explanation

The same cursor name is used in two or more declare cursor statements. The cursor name must be unique within the compilation unit.

## JMN2689I-W

**More than one file-name must be specified in the USING phrase of the MERGE statement. Compilation continues.**

## Example

```
[P2689.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2689.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007     SELECT SQFILE2 ASSIGN TO SYS002.
000008     SELECT SRTFILE ASSIGN TO SYS003.
000009 I-O-CONTROL.
000010 DATA            DIVISION.
000011 FILE             SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02 KEYREC      PIC X(8).
000015 02              PIC X(72).
000016 FD SQFILE2.
000017 01 SQF2REC.
000018 02 KEYREC      PIC X(8).
000019 02              PIC X(72).
000020 SD SRTFILE.
000021 01 SRTREC.
000022 02 KEYREC      PIC X(8).
000023 02              PIC X(72).
000024 WORKING-STORAGE SECTION.
000025 PROCEDURE        DIVISION.
000026     MERGE SRTFILE
000027         ASCENDING KEY KEYREC OF SRTFILE
000028     USING SQFILE1
```

```
000029          GIVING SQFILE2
000030 END PROGRAM      P2689.
```

P2689.cob 28: JMN2689I-W More than one file-name must be specified in the USING phrase of the MERGE statement. Compilation continues.

### Explanation

The MERGE statement merges the file specified for the USING phrase. Specify at least two file-names that merging targets for the USING phrase.

## JMN2691I-S

**'@1@' in the REPORT SECTION cannot be referred in the PROCEDURE DIVISION.**

### Parameter Explanation

@1@ : Data name that causes the error.

### Example

```
[P2691.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2691.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFIL ASSIGN TO SYS002.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE              SECTION.
000010 FD REPFIL
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 WRKREC        PIC X(80).
000014 REPORT          SECTION.
000015 RD REP1 PAGE 66.
000016 01 DE-REC TYPE DE.
000017     02 LINE PLUS 1.
000018     03 COLUMN 1 PIC X(80) SOURCE WRKREC.
000019 PROCEDURE       DIVISION.
000020 DECLARATIVES.
000021 ERR1 SECTION.
000022     USE BEFORE REPORTING DE-REC.
000023     MOVE SPACE TO DE-REC.
000024 END DECLARATIVES.
000025 END PROGRAM      P2691.
```

P2691.cob 23: JMN2691I-S 'DE-REC' in the REPORT SECTION cannot be referred in the PROCEDURE DIVISION.

### Explanation

The report-name declared in the report description entry (level indicator RD) and the report group name (data-name defined by the data description entry declared to the subordinate position of the report description entry) can be used only in the USE BEFORE REPORTING statement or the GENERATE/INITIATE/TERMINATE statement in the procedure division.

## JMN2692I-W

**A non-operative statement exists after the @1@ statement. The syntax of the statement is assumed to be valid, but the statement is not executed.**

### Parameter Explanation

@1@ : GO TO, EXIT PROGRAM, STOP RUN or GOBACK.



## Example

```
[P2692.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2692.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE       DIVISION.
000007     STOP RUN.
000008     DISPLAY "TEST NG".
000009 END PROGRAM     P2692.
```

P2692.cob 7: JMN2692I-W A non-operative statement exists after the STOP RUN statement. The syntax of the statement is assumed to be valid, but the statement is not executed.

## Explanation

The executable statement is being written after the statement in which the control is transferred explicitly. The statement is compiled but not executed.

## JMN2693I-W

---

**'@1@' must be an identifier or a non-zero integer. It is accepted as written.**

### Parameter Explanation

@1@ : Word which causes error.

## Example

```
[P2693.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2693.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WOCC          PIC X(2) OCCURS 26
000008                      INDEXED BY IX1.
000009 01 LCNT          PIC S9(4) BINARY.
000010 PROCEDURE       DIVISION.
000011     PERFORM TEST BEFORE
000012     VARYING LCNT FROM IX1 BY 0 UNTIL IX1 = 26
000013     DISPLAY WOCC(IX1)
000014     END-PERFORM
000015 END PROGRAM     P2693.
```

P2693.cob 12: JMN2693I-W '0' must be an identifier or a non-zero integer. It is accepted as written.

## Explanation

When an index-name is specified in a FROM phrase, an integer (0 is excluded) or an integer item should be specified in the BY phrase.

## JMN2694I-S

---

**The pointer qualifier is invalid.**

## Example

```
[P2694.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2694.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
```

```

000005 BASED-STORAGE SECTION.
000006 01 WBUF.
000007 02 WITEM1 PIC X(2).
000008 02 WITEM2 PIC X(2).
000009 PROCEDURE DIVISION.
000010 MOVE SPACE TO
000011 (FUNCTION LENGTH(WITEM2)) ->WBUF
000012 END PROGRAM P2694.

```

P2694.cob 11: JMN2694I-S The pointer qualifier is invalid.

### Explanation

The pointer qualification may be invalid due to one of the following:

- A pointer qualification symbol(->) is written following the element that it is neither a data-name nor an ADDR function.
- The pointer qualifier parentheses are unmatched.
- There is an error in a component of the pointer qualifier.

### JMN2695I-S

**'@1@' qualified by a pointer must be a data-name or a condition-name. The pointer qualification is ignored.**

#### Parameter Explanation

@1@ : Word that causes the error.

#### Example

```

[C2695.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C2695.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 BASED-STORAGE SECTION.
000006 01 BA01 PIC 9(10).
000007 01 BA02 PIC 9(10).
000008 01 BA03 PIC 9(10).
000009 01 BA04 PIC 9(10).
000010 WORKING-STORAGE SECTION.
000011 01 A01.
000012 02 A02 PIC 9(10).
000013 02 A03 PIC 9(10).
000014 02 A04 PIC 9(10).
000015 01 P01 USAGE POINTER.
000016 01 P02 USAGE POINTER.
000017 PROCEDURE DIVISION.
000018 DISPLAY (P01 + P02)->"AAA".
000019 END PROGRAM C2695.

```

C2695.cob 18: JMN2695I-S "'AAA'" qualified by a pointer must be a data-name or a condition-name. The pointer qualification is ignored.

### JMN2696I-S

**An EXIT PERFORM statement with a TEST phrase cannot be specified in an in-line PERFORM statement without a testing mechanism. The TEST phrase is ignored.**

#### Example

```

[C2696.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C2696.

```

```

000003 ENVIRONMENT      DIVISION.
000004 DATA             DIVISION.
000005 WORKING-STORAGE  SECTION.
000006 01  A01.
000007     02 A02        PIC 9(10).
000008     02 A03        PIC 9(10).
000009     02 A04        PIC 9(10).
000010 PROCEDURE        DIVISION.
000011     PERFORM WITH NO LIMIT
000012         MOVE A03 TO A04
000013         EXIT TO TEST OF PERFORM
000014     END-PERFORM.
000015 END PROGRAM      C2696.

```

C2696.cob 13: JMN2696I-S An EXIT PERFORM statement with a TEST phrase cannot be specified in an in-line PERFORM statement without a testing mechanism. The TEST phrase is ignored.

### Explanation

An EXIT PERFORM statement with a TEST phrase is allowed only in an in-line PERFORM statement with a termination condition specified. Executing an EXIT PERFORM statement with a TEST phrase specified passes control to the inspection process of the corresponding in-line PERFORM statement.

The inspection process is either a process that inspects the occurrence count specified before the TIMES phrase, or a process that inspects the condition specified after the UNTIL phrase.

### JMN2697I-S

**The EXIT PERFORM statement must be specified inside of an in-line PERFORM statement.**

#### Example

```

[P2697.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2697.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01  WNUM         PIC X(2).
000007 PROCEDURE        DIVISION.
000008     IF WNUM = "13" THEN
000009         DISPLAY "OK"
000010     ELSE
000011         EXIT PERFORM
000012     END-IF
000013 END PROGRAM        P2697.

```

P2697.cob 11: JMN2697I-S The EXIT PERFORM statement must be specified inside of an in-line PERFORM statement.

### Explanation

The EXIT PERFORM statement specifies the exit of an in-line PERFORM statement.

### JMN2698I-S

**The argument in @1@ is not specified.**

#### Parameter Explanation

@1@ : Function name where the error is detected.

#### Example

```

[P2698.cob]
000001 IDENTIFICATION DIVISION.

```

```

000002 PROGRAM-ID.      P2698.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WANS          COMP-1.
000007 PROCEDURE       DIVISION.
000008     COMPUTE WANS = FUNCTION SIN
000009 END PROGRAM      P2698.

```

P2698.cob 8: JMN2698I-S The argument in FUNCTION SIN is not specified.

### Explanation

An argument is not specified for a function that requires an argument.

## JMN2699I-S

### The argument in @1@ must be @2@.

#### Parameter Explanation

@1@ : Function name where the error is detected.

@2@ : Kind of word specifiable as an argument.

#### Example

```

[C2699.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C2699.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 BASED-STORAGE   SECTION.
000006 01 BA01          PIC 9.
000007 01 BA02        PIC 9(10).
000008 01 BA03        PIC 9(10).
000009 01 BA04        PIC 9(10).
000010 WORKING-STORAGE SECTION.
000011 01 A01.
000012     02 A02      PIC 9(10).
000013     02 A03      PIC 9(10).
000014     02 A04      PIC 9(10).
000015 01 P01         USAGE POINTER.
000016 01 P02         USAGE POINTER.
000017 01 PTR-G.
000018     02 P03      USAGE POINTER OCCURS 5 TIMES.
000019 PROCEDURE      DIVISION.
000020     DISPLAY FUNCTION ADDR("AAA").
000021 END PROGRAM     C2699.

```

C2699.cob 20: JMN2699I-S The argument in FUNCTION ADDR must be identifier.

### Explanation

The number, order, and value of the argument depends on the function.

## JMN2700I-S

### The right parenthesis of the function is not specified. A right parenthesis is assumed.

#### Example

```

[P2700.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2700.
000003 ENVIRONMENT     DIVISION.

```

```

000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WANS        COMP-1.
000007 PROCEDURE      DIVISION.
000008     COMPUTE WANS = FUNCTION SIN(13
000009 END PROGRAM     P2700.

```

P2700.cob 8: JMN2700I-S The right parenthesis of the function is not specified. A right parenthesis is assumed.

## JMN2701I-I

**The DEBUGGING SECTION is assumed to be a comment.**

### Example

```

[P2701.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2701.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SOURCE-COMPUTER. FMV6000SL
000006     WITH DEBUGGING MODE.
000007 DATA          DIVISION.
000008 WORKING-STORAGE SECTION.
000009 PROCEDURE      DIVISION.
000010 DECLARATIVES.
000011 DBG1 SECTION.
000012     USE FOR DEBUGGING ON ALL PROCEDURE.
000013 END DECLARATIVES.
000014 END PROGRAM     P2701.

```

P2701.cob 12: JMN2701I-I The DEBUGGING SECTION is assumed to be a comment.

### Explanation

The USE FOR DEBUGGING statement is specific to the OSIV-series.

## JMN2704I-W

**The VALUE clause cannot be specified for an item specified in an EXTERNAL clause or for its subordinate item. The VALUE clause is ignored.**

### Example

```

[P2704.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2704.
000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WK1 IS EXTERNAL
000006     PIC X(2) VALUE SPACE.
000007 01 WK2 IS EXTERNAL.
000008     02 PIC X(2) VALUE SPACE.
000009 PROCEDURE      DIVISION.
000010 END PROGRAM     P2704.

```

P2704.cob 6: JMN2704I-W The VALUE clause cannot be specified for an item specified in an EXTERNAL clause or for its subordinate item. The VALUE clause is ignored.

P2704.cob 8: JMN2704I-W The VALUE clause cannot be specified for an item specified in an EXTERNAL clause or for its subordinate item. The VALUE clause is ignored.

## JMN2705I-W

---

**The VALUE clause cannot be specified for an item specified in a REDEFINES clause or for its subordinate item. The VALUE clause is ignored.**

**Example**

```
[P2705.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2705.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA.
000007 02 WBUF         PIC X(20).
000008 02 WVSTR REDEFINES WBUF.
000009 03 WLEN        PIC S9(9) BINARY VALUE ZERO.
000010 03 WSTR        PIC X(16).
000011 PROCEDURE      DIVISION.
000012 END PROGRAM     P2705.
```

P2705.cob 9: JMN2705I-W The VALUE clause cannot be specified for an item specified in a REDEFINES clause or for its subordinate item. The VALUE clause is ignored.

**JMN2706I-W**

---

**The VALUE clause cannot be specified for an item specified in the APPLY SAVED-AREA clause or for its subordinate item. The VALUE clause is ignored.**

**Example**

```
[P2706.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2706.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006 01 SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 01 APPLY SAVED-AREA TO WSAVE ON SQFILE1.
000009 DATA            DIVISION.
000010 FILE              SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC.
000013 02                PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 01 WSAVE         PIC X(80) VALUE SPACE.
000016 PROCEDURE      DIVISION.
000017 END PROGRAM     P2706.
```

P2706.cob 15: JMN2706I-W The VALUE clause cannot be specified for an item specified in the APPLY SAVED-AREA clause or for its subordinate item. The VALUE clause is ignored.

**JMN2707I-S**

---

**'@1@' must be qualified by an identifier.**

**Parameter Explanation**

@1@ : EDIT-COLOR, EDIT-CURSOR, EDIT-MODE, EDIT-STATUS, EDIT-OPTION, EDIT-OPTION2 or EDIT-OPTION3.

**Example**

```
[P2707.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2707.
000003 ENVIRONMENT     DIVISION.
```

```

000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE      DIVISION.
000007     MOVE SPACE TO EDIT-COLOR
000008 END PROGRAM    P2707.

```

P2707.cob 7: JMN2707I-S 'EDIT-COLOR' must be qualified by an identifier.

### Explanation

If an item control field is specified in a screen descriptor, data items having item controllers are specified in a record description entry associated with a presentation file, and the following seven special registers are created for each data item:

- EDIT-MODE
- EDIT-OPTION
- EDIT-OPTION2
- EDIT-OPTION3
- EDIT-COLOR
- EDIT-STATUS
- EDIT-CURSOR

These special registers can only be referenced in the PROCEDURE DIVISION. They are associated with a data item having an item controller, so they must be qualified before they can be referenced.

## JMN2710I-S

**A 'REVERSED ORDER' phrase cannot be specified in a START statement with ascending order.**

### Example

```

[P2710.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2710.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IXFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     RECORD KEY   IS WRKY1.
000009 I-O-CONTROL.
000010 DATA          DIVISION.
000011 FILE           SECTION.
000012 FD IXFILE1.
000013 01 IXF1REC.
000014 02 WRKY1      PIC 9(2).
000015 02            PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 PROCEDURE      DIVISION.
000018     START IXFILE1
000019     KEY IS GREATER THAN WRKY1
000020     WITH REVERSED ORDER
000021 END PROGRAM    P2710.

```

P2710.cob 20: JMN2710I-S A 'REVERSED ORDER' phrase cannot be specified in a START statement with ascending order.

### Explanation

For a START statement with a REVERSED ORDER phrase, the search operation will be performed in descending key order. In this case, if 'IS GREATER THAN' or 'IS GREATER OR EQUAL TO' is specified for the KEY phrase, the corresponding record does not exist.

## JMN2713I-S

### Special register '@1@' cannot be specified.

#### Parameter Explanation

@1@ : LINAGE-COUNTER, LINE-COUNTER, PAGE-COUNTER, DEBUG-ITEM, EDIT-OPTION2 or EDIT-OPTION3.

#### Example

```
[P2713.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2713.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE      DIVISION.
000007     DISPLAY DEBUG-ITEM.
000008 END PROGRAM     P2713.
```

P2713.cob 7: JMN2713I-S Special register 'DEBUG-ITEM' cannot be specified.

P2713.cob 7: JMN2557I-S The format of the DISPLAY statement is incomplete.

## JMN2717I-S

### The paragraph including the GO TO statement without a procedure-name must contain only a paragraph-name and a single GO TO statement. The GO TO statement is ignored.

#### Example

```
[P2717.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2717.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE      DIVISION.
000007     ALTER P1 TO P2.
000008 P1.
000009     DISPLAY "P1"
000010     GO TO.
000011 P2.
000012     STOP RUN.
000013 END PROGRAM     P2717.
```

P2717.cob 10: JMN2717I-S The paragraph including the GO TO statement without a procedure-name must contain only a paragraph-name and a single GO TO statement. The GO TO statement is ignored.

#### Explanation

GO TO with the procedure-name omitted is obsolete.

## JMN2718I-S

### Data-name '@2@' in the @1@ statement cannot be qualified by a pointer. The pointer qualification is ignored.

#### Parameter Explanation

@1@ : START, READ, SORT or MERGE.

@2@ : Data name that causes the error.



## Example

```
[C2718.cob]
000001 IDENTIFICATION      DIVISION.
000002 PROGRAM-ID.        C2718.
000003 ENVIRONMENT        DIVISION.
000004 INPUT-OUTPUT       SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE01  ASSIGN TO NAME01.
000007 DATA               DIVISION.
000008 FILE               SECTION.
000009 SD FILE01
000010     LABEL RECORD IS STANDARD.
000011 01 REC.
000012     02 F001        PIC X(90).
000013     02 RKEYA      PIC X(10).
000014 WORKING-STORAGE    SECTION.
000015 01 PTR1          POINTER.
000016 PROCEDURE         DIVISION.
000017 P-001.
000018     SORT FILE01 ON ASCENDING KEY
000019         PTR1->RKEYA
000020     INPUT PROCEDURE P-001
000021     OUTPUT PROCEDURE IS P-002 THRU P-004.
000022 P-002.
000023 P-004.
000024 END PROGRAM C2718.
```

C2718.cob 19: JMN2718I-S Data-name 'RKEYA' in the SORT statement cannot be qualified by a pointer. The pointer qualification is ignored.

## JMN2726I-I

**(OBS) The @1@ statement is an obsolete element in @2@ COBOL.**

### Parameter Explanation

@1@ : ALTER or ENTER

@2@ : ANS185

## Example

```
[P2726.cob]
000001 @OPTIONS CONF(OBS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P2726.
000004 ENVIRONMENT      DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE  SECTION.
000007 PROCEDURE       DIVISION.
000008     ALTER P1 TO P2.
000009 P1.
000010     GO TO.
000011 P2.
000012     STOP RUN.
000013 END PROGRAM P2726.
```

P2726.cob 8: JMN2726I-I (OBS) The ALTER statement is an obsolete element in ANS185 COBOL.

### Explanation

CONF(OBS) indicates obsolete language elements and functions.

## JMN2727I-I

**(OBS) The @1@ phrase is an obsolete element in @2@ COBOL.**

### Parameter Explanation

@1@ : REVERSED

@2@ : ANS85

### Example

```
[P2727.cob]
000001 @OPTIONS CONF(OBS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P2727.
000004 ENVIRONMENT      DIVISION.
000005 INPUT-OUTPUT     SECTION.
000006 FILE-CONTROL.
000007     SELECT SQFILE1 ASSIGN TO SYS001.
000008 I-O-CONTROL.
000009 DATA              DIVISION.
000010 FILE              SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC.
000013 02              PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE         DIVISION.
000016     OPEN INPUT SQFILE1 REVERSED.
000017 END PROGRAM      P2727.
```

P2727.cob 16: JMN2727I-I (OBS) The REVERSED phrase is an obsolete element in ANS85 COBOL.

### Explanation

CONF(OBS) indicates obsolete language elements and functions.

## JMN2728I-I

**(OBS) The GO TO statement without a procedure-name is an obsolete element in ANS85 COBOL.**

### Example

```
[P2728.cob]
000001 @OPTIONS CONF(OBS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P2728.
000004 ENVIRONMENT      DIVISION.
000005 DATA              DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE         DIVISION.
000008     ALTER P1 TO P2.
000009 P1.
000010     GO TO.
000011 P2.
000012     STOP RUN.
000013 END PROGRAM      P2728.
```

P2728.cob 10: JMN2728I-I (OBS) The GO TO statement without a procedure-name is an obsolete element in ANS85 COBOL.

### Explanation

CONF(OBS) indicates obsolete language elements and functions.

## JMN2729I-I

---

**(OBS) The STOP statement with a literal is an obsolete element in ANSI85 COBOL.**

Example

```
[P2729.cob]
000001 @OPTIONS CONF(OBS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P2729.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE       DIVISION.
000008     STOP "PAUSE"
000009 END PROGRAM     P2729.
```

P2729.cob 8: JMN2729I-I (OBS) The STOP statement with a literal is an obsolete element in ANSI85 COBOL.

Explanation

CONF(OBS) indicates obsolete language elements and functions.

**JMN2730I-I**

---

**(OBS) @1@ is an obsolete feature in @2@ COBOL.**

Parameter Explanation

@1@ : debug

@2@ : ANSI85

Example

```
[P2730.cob]
000001 @OPTIONS CONF(OBS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P2730.
000004 ENVIRONMENT     DIVISION.
000005 CONFIGURATION  SECTION.
000006 SOURCE-COMPUTER. FMV6000SL
000007     WITH DEBUGGING MODE.
000008 DATA            DIVISION.
000009 WORKING-STORAGE SECTION.
000010 PROCEDURE       DIVISION.
000011 DECLARATIVES.
000012 DBG1 SECTION.
000013     USE FOR DEBUGGING ON ALL PROCEDURE.
000014 END DECLARATIVES.
000015D     DISPLAY "DEBUG LINE"
000016 END PROGRAM     P2730.
```

P2730.cob 13: JMN2730I-I (OBS) debug is an obsolete feature in ANSI85 COBOL.

Explanation

CONF(OBS) indicates obsolete language elements and functions.

**JMN2731I-S**

---

**'@2@' in special register '@1@' must be an identifier.**

Parameter Explanation

@1@ : ADDRESS OF or LENGTH OF.

@2@ : Word that causes the error.

## Example

```
[P2731.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2731.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WPX          POINTER.
000007 PROCEDURE       DIVISION.
000008 LABEL1.
000009     MOVE LENGTH OF LABEL1 TO WPX
000010 END PROGRAM     P2731.
```

P2731.cob 9: JMN2731I-S 'LABEL1' in special register 'LENGTH OF' must be an identifier.

## JMN2732I-S

**The identifier in special register '@1@' must be a level 01 or 77 item defined in the LINKAGE SECTION.**

### Parameter Explanation

@1@ : ADDRESS OF.

## Example

```
[P2732.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2732.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WPX          POINTER.
000007 01 WBUF1       PIC X(20).
000008 LINKAGE         SECTION.
000009 01 WBUF2       PIC X(20).
000010 PROCEDURE       DIVISION.
000011     SET ADDRESS OF WBUF1 TO WPX
000012     SET ADDRESS OF WBUF2 TO WPX
000013 END PROGRAM     P2732.
```

P2732.cob 11: JMN2732I-S The identifier in special register 'ADDRESS OF' must be a level 01 or 77 item defined in the LINKAGE SECTION.

## JMN2735I-S

**ON or OFF must follow TO in the SET statement.**

## Example

```
[P2735.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2735.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     SWITCH-0 IS SW0.
000007 DATA            DIVISION.
000008 WORKING-STORAGE SECTION.
000009 PROCEDURE       DIVISION.
000010     SET SW0 TO TRUE
000011 END PROGRAM     P2735.
```

P2735.cob 10: JMN2735I-S ON or OFF must follow TO in the SET statement.

## Explanation

A SET statement sets the external switch related to each mnemonic-name to either ON or OFF.

### JMN2736I-S

#### TRUE must follow TO in the SET statement.

#### Example

```
[P2736.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2736.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 RESULT       PIC 1(1).
000007 88 OK           VALUE B"1" .
000008 88 NG           VALUE B"0" .
000009 PROCEDURE       DIVISION.
000010     SET OK      TO ON
000011 END PROGRAM     P2736.
```

P2736.cob 10: JMN2736I-S TRUE must follow TO in the SET statement.

## Explanation

A SET statement sets the value of the condition variable associated with condition-name to the value specified in the VALUE clause of condition-name.

### JMN2737I-S

#### A pointer data item, NULL(S), or ADDRESS OF special register must follow TO in the SET statement.

#### Example

```
[P2737.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2737.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 LINKAGE         SECTION.
000006 01 WBUF         POINTER.
000007 PROCEDURE       DIVISION.
000008     SET ADDRESS OF WBUF TO 13
000009 END PROGRAM     P2737.
```

P2737.cob 8: JMN2737I-S A pointer data item, NULL(S), or ADDRESS OF special register must follow TO in the SET statement.

### JMN2738I-S

#### The LENGTH OF special register cannot be specified in the receiving item of a @1@ statement.

#### Parameter Explanation

@1@ : Verb of the statement where the error occurs.

#### Example

```
[P2738.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2738.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WANS          PIC S9(4) BINARY.
```

```

000007 PROCEDURE      DIVISION.
000008     COMPUTE LENGTH OF WANS = 13 + 12
000009 END PROGRAM    P2738.

```

P2738.cob 8: JMN2738I-S The LENGTH OF special register cannot be specified in the receiving item of a COMPUTE statement.

## JMN2741I-S

**'@1@' must be a level 01 or 77 item.**

### Parameter Explanation

@1@ : SQLSTATE, SQLCODE, SQLMSG.

### Example

```

[P2741.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2741.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 STCD.
000008 02 SQLSTATE PIC X(5).
000009 02 SQLMSG  PIC X(80).
000010 77 HVAR3  PIC S9(9) BINARY.
000011     EXEC SQL END DECLARE SECTION END-EXEC.
000012 PROCEDURE DIVISION.
000013     EXEC SQL
000014         SELECT CL1 INTO :HVAR3 FROM TBL
000015     END-EXEC.
000016 END PROGRAM P2741.

```

P2741.cob 8: JMN2741I-S 'SQLSTATE' must be a level 01 or 77 item.

P2741.cob 9: JMN2741I-S 'SQLMSG' must be a level 01 or 77 item.

### Explanation

If an exception event occurs during the execution of an SQL statement, information indicating the nature of the event is posted to the application program. The information is stored in SQLSTATE, SQLCODE or SQLMSG. These should be defined as the level-number 01 or 77 item.

## JMN2742I-S

**SQLERRD must be an 02 level item immediately subordinate to an 01 level SQLINFOA or be an item immediately subordinate to an 01 level SQLCA, and it must be specified with OCCURS 6 TIMES. Also, a DEPENDING ON phrase, a KEY IS phrase, and an INDEXED BY phrase cannot be specified for an OCCURS clause.**

### Example

```

[P2742.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2742.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE PIC X(5).
000008 01 SQLINFOA .
000009 02 SQLERRD PIC S9(9) BINARY OCCURS 10 TIMES.
000010 77 HVAR3  PIC S9(9) BINARY.
000011     EXEC SQL END DECLARE SECTION END-EXEC.

```

```

000012 PROCEDURE DIVISION.
000013     EXEC SQL
000014         SELECT CL1 INTO :HVAR3 FROM TBL
000015     END-EXEC.
000016 END PROGRAM P2742.

```

P2742.cob 9: JMN2742I-S SQLERRD must be an 02 level item immediately subordinate to an 01 level SQLINFOA or be an item immediately subordinate to an 01 level SQLCA, and it must be specified with OCCURS 6 TIMES. Also, a DEPENDING ON phrase, a KEY IS phrase, and an INDEXED BY phrase cannot be specified for an OCCURS clause.

### Explanation

SQLERRD is the area used to store a return value of a stored procedure (SQLERRD(1)), or the number of processed rows when multiple rows are processed (SQLERRD(3)).

## JMN2744I-S

### The host variable cannot be a variable address item.

#### Example

```

[P2744.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.        P2744.
000003 ENVIRONMENT      DIVISION.
000004 DATA              DIVISION.
000005 WORKING-STORAGE  SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE PIC X(5).
000008 01 HRGRP.
000009     02 WDEPND PIC S9(4) BINARY.
000010     02          PIC X(1)
000011         OCCURS 10 DEPENDING ON WDEPND.
000012     02 HVAR3 PIC S9(9) BINARY.
000013     EXEC SQL END DECLARE SECTION END-EXEC.
000014 PROCEDURE DIVISION.
000015     EXEC SQL
000016         SELECT CL1 INTO :HVAR3 FROM TBL
000017     END-EXEC.
000018 END PROGRAM P2744.

```

P2744.cob 12: JMN2744I-S The host variable cannot be a variable address item.

### Explanation

The host variable defined by an embedded SQL declare section of the data division is used to store data from the application program into the database, and to get the data from the database. Host variables must not be in a variable position in the record.

## JMN2745I-S

### The host variable cannot be subordinate to a data item with a @1@ clause.

#### Parameter Explanation

@1@ : OCCURS or REDEFINES.

#### Example

```

[P2745.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.        P2745.
000003 ENVIRONMENT      DIVISION.
000004 DATA              DIVISION.
000005 WORKING-STORAGE  SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.

```

```

000007 01 SQLSTATE PIC X(5).
000008 01 HRGRP.
000009 02 OCCURS 10.
000010 03 HVAR1 PIC S9(9) BINARY.
000011 EXEC SQL END DECLARE SECTION END-EXEC.
000012 PROCEDURE DIVISION.
000013 EXEC SQL
000014 SELECT CL1 INTO :HVAR1 FROM TBL
000015 END-EXEC.
000016 END PROGRAM P2745.

```

P2745.cob 10: JMN2745I-S The host variable cannot be subordinate to a data item with a OCCURS clause.

## JMN2747I-S

**A host variable with an OCCURS clause must be either an elementary item with a level number other than 49, or a group item that corresponds to a variable length column.**

### Example

```

[C2747.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C2747.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE PIC X(5).
000008 01 HVAR0.
000009 02 HVAR1 OCCURS 3 TIMES.
000010 49 HVAR11 PIC S9(4) BINARY.
000011 49 HVAR12 PIC N(40).
000012 02 HVAR2 OCCURS 3 TIMES.
000013 03 HVAR21 PIC S9(4) BINARY.
000014 03 HVAR22 PIC N(40).
000015 EXEC SQL END DECLARE SECTION END-EXEC.
000016 PROCEDURE DIVISION.
000017 EXEC SQL
000018 SELECT CL1 INTO :HVAR1 FROM TBL END-EXEC.
000019 EXEC SQL
000020 SELECT CL2 INTO :HVAR2 FROM TBL END-EXEC.

```

C2747.cob 12: JMN2747I-S A host variable with an OCCURS clause must be either an elementary item with a level number other than 49, or a group item that corresponds to a variable length column.

## JMN2748I-S

**An OCCURS clause with a DEPENDING ON phrase, a KEY IS phrase, and an INDEXED BY phrase cannot be specified for a host variable.**

### Example

```

[P2748.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2748.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE PIC X(5).
000008 01 SQLINFOA .
000009 02 SQLERRD PIC S9(9) BINARY
000010 OCCURS 6 TIMES INDEXED BY IX1.
000011 77 HVAR3 PIC S9(9) BINARY.

```



```

000012 EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014 EXEC SQL
000015     SELECT CL1 INTO :HVAR3 FROM TBL
000016 END-EXEC.
000017 END PROGRAM P2748.

```

P2748.cob 9: JMN2748I-S An OCCURS clause with a DEPENDING ON phrase, a KEY IS phrase, and an INDEXED BY phrase cannot be specified for a host variable.

## JMN2749I-S

### The host variable cannot be a strongly typed item.

#### Example

```

[P2749.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2749.
000003 ENVIRONMENT     DIVISION.
000004 DATA             DIVISION.
000005 WORKING-STORAGE SECTION.
000006 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE PIC X(5).
000008 01 HVAR1 TYPE STY.
000009 EXEC SQL END DECLARE SECTION END-EXEC.
000010 01 STY TYPEDEF STRONG.
000011 02 HVAR20 PIC X.
000012 02 HVAR21 PIC S9(4) BINARY.
000013 02 HVAR22 PIC N(40).
000014 PROCEDURE DIVISION.
000015 EXEC SQL
000016     SELECT CL1 INTO :HVAR1 FROM TBL
000017 END-EXEC.
000018 END PROGRAM      P2749.

```

P2749.cob 8: JMN2749I-S The host variable cannot be a strongly typed item.

## JMN2750I-S

### The global name of the host variable must be unique with no qualifiers in its scope if it is declared as a group item or subordinate item. All names in this group item are invalid as a host variable name.

#### Example

```

[P2750.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2750.
000003 ENVIRONMENT     DIVISION.
000004 DATA             DIVISION.
000005 WORKING-STORAGE SECTION.
000006 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE PIC X(5) GLOBAL.
000008 01 HVAR1     GLOBAL.
000009 02 HVAR10 PIC X.
000010 02 HVAR20 PIC S9(4) BINARY.
000011 02 HVAR30 PIC N(40).
000012 EXEC SQL END DECLARE SECTION END-EXEC.
000013
000014 PROGRAM-ID.      P2750SUB.
000015 DATA             DIVISION.
000016 WORKING-STORAGE SECTION.
000017 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000018 01 HVAR2.

```

```

000019      02  HVAR20  PIC S9(4) BINARY.
000020      EXEC SQL END DECLARE SECTION END-EXEC.
000021 PROCEDURE DIVISION.
000022      EXEC SQL
000023          SELECT CL1 INTO :HVAR20 FROM TBL END-EXEC.
000024      EXIT PROGRAM.
000025 END PROGRAM      P2750SUB.
000026 END PROGRAM      P2750.

```

P2750.cob 10: JMN2750I-S The global name of the host variable must be unique with no qualifiers in its scope if it is declared as a group item or subordinate item. All names in this group item are invalid as a host variable name.

## JMN2753I-S

**The embedded @1@ statement must end with END-EXEC. All embedded @1@ statements following the EXEC @1@ are ignored.**

### Parameter Explanation

@1@ : SQL

### Example

```

[P2753.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2753.
000003 ENVIRONMENT      DIVISION.
000004 DATA              DIVISION.
000005 WORKING-STORAGE SECTION.
000006      EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007      01  SQLSTATE PIC X(5).
000008      77  HVAR1  PIC S9(9) BINARY.
000009      EXEC SQL END DECLARE SECTION END-EXEC.
000010 PROCEDURE DIVISION.
000011      EXEC SQL
000012          SELECT CL1 INTO :HVAR1 FROM TBL
000013      STOP RUN.

```

P2753.cob 11: JMN2753I-S The embedded SQL statement must end with END-EXEC. All embedded SQL statements following the EXEC SQL are ignored.

### Explanation

The embedded SQL statement must be enclosed by the SQL prefix "EXEC SQL" and the SQL terminator "END-EXEC".

## JMN2756I-S

**The SQLCODE or SQLSTATE is undefined or defined multiple times.**

### Example

```

[P2756.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2756.
000003 ENVIRONMENT      DIVISION.
000004 DATA              DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE DIVISION.
000007      EXEC SQL WHENEVER SQLERROR GO TO :P-END END-EXEC.
000008      EXEC SQL CONNECT TO DEFAULT END-EXEC.
000009 P-END.
000010      EXEC SQL WHENEVER SQLERROR CONTINUE END-EXEC.
000011      EXEC SQL DISCONNECT DEFAULT END-EXEC.
000012 END PROGRAM      P2756.

```

P2756.cob 8: JMN2756I-S The SQLCODE or SQLSTATE is undefined or defined multiple times.

#### Explanation

SQLSTATE/SQLCODE is where the code is stored that indicates an exception event occurs during the execution of an SQL statement. In the application program, it is necessary to declare either SQLSTATE or SQLCODE.

#### JMN2757I-S

---

**Invalid characters are specified in the SQL statement. This SQL statement is ignored.**

#### Explanation

Only the character included in the BMP (Basic Multilingual Plane) can be used in the embedded SQL statement.

#### JMN2759I-U

---

**The number of host variables that can be referenced has been exceeded. Compilation is terminated.**

#### Explanation

The upper limit of the number of host variables is 10000.

The number of host variables is the sum of declaration of the host variable that can be referred from one source unit. (the variable that has the global attribute also is contained.) It must not exceed that limit. Please decrease the declaration of the host variable.

#### JMN2761I-S

---

**@1@STATE is not specified or it is not unique.**

#### Parameter Explanation

@1@ : SQL

#### Example

```
[P2761.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2761.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE       DIVISION.
000007     EXEC SQL
000008         SELECT * FROM s1.t1
000009     END-EXEC.
000010 END PROGRAM      P2761.
```

P2761.cob 8: JMN2761I-S SQLSTATE is not specified or it is not unique.

#### Explanation

SQLSTATE must be defined as a 5-digit alphanumeric item. SQLSTATE must be declared as either a level 01 or level 77 item, or as a data item subordinate to a level 01 SQLCA data item.

#### JMN2762I-S

---

**Special register @1@ can only be specified as a sending item in a MOVE statement.**

#### Parameter Explanation

@1@ : WHEN-COMPILED

#### Example

```
[P2762.cob]
000001 IDENTIFICATION DIVISION.
```

```

000002 PROGRAM-ID.      P2762.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE        DIVISION.
000007     MOVE SPACE TO WHEN-COMPILED
000008 END PROGRAM      P2762.

```

P2762.cob 7: JMN2762I-S Special register WHEN-COMPILED can only be specified as a sending item in a MOVE statement.

### Explanation

WHEN-COMPILED returns the date and time at which the program was compiled.

## JMN2764I-S

**In this system, '@1@' cannot be used.**

### Parameter Explanation

@1@ : Reserved word that shows statement, phrase, and specification that causes the error.

### Example

```

[P2764.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2764.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD SQFILE1.
000010 01 SQF1REC.
000011 02              PIC X(80).
000012 WORKING-STORAGE SECTION.
000013 PROCEDURE        DIVISION.
000014     WRITE SQF1REC POSITIONING 1
000015 END PROGRAM      P2764.

```

P2764.cob 14: JMN2764I-S In this system, 'POSITIONING' cannot be used.

## JMN2766I-W

**'@1@' is assumed to be a comment in this system.**

### Parameter Explanation

@1@ : Reserved word that shows statement, phrase, and specification that causes the error.

### Example

```

[P2766.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2766.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008     APPLY RECORD-OVERFLOW ON SQFILE1.
000009 DATA            DIVISION.
000010 FILE              SECTION.
000011 FD SQFILE1

```

```

000012     RECORD VARYING IN SIZE DEPENDING ON LRECL.
000013 01 SQF1REC.
000014  02          PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 LRECL     PIC 9(2).
000017 PROCEDURE    DIVISION.
000018 END PROGRAM   P2766.

```

P2766.cob 8: JMN2766I-W 'APPLY RECORD-OVERFLOW' is assumed to be a comment in this system.

## JMN2767I-S

**The number of the argument in '@1@' must be greater than 1.**

### Parameter Explanation

@1@ : Function name that causes the error.

### Example

```

[P2767.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2767.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 77 A PIC 9(2).
000007 77 B PIC 9(2).
000008 PROCEDURE DIVISION.
000009     MOVE FUNCTION PRESENT-VALUE(A) TO B.
000010 END PROGRAM P2767.

```

P2767.cob 9: JMN2767I-S The number of the argument in 'FUNCTION PRESENT-VALUE' must be greater than 1.

### Explanation

Two or more arguments are specified for the following functions:

- ANNUITY
- ENUM-AND
- ENUM-OR
- MOD
- PRESENT-VALUE
- REM

ENUM-AND and ENUM-OR are specific to .NET.

## JMN2768I-S

**'@1@' cannot be specified in a receiving item.**

### Parameter Explanation

@1@ : Function identifier that causes the error.

### Example

```

[P2768.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2768.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.

```

```

000006 77 A PIC X(21).
000007 PROCEDURE DIVISION.
000008     MOVE A TO FUNCTION CURRENT-DATE.
000009 END PROGRAM P2768.

```

P2768.cob 8: JMN2768I-S 'FUNCTION CURRENT-DATE' cannot be specified in a receiving item.

## JMN2769I-S

**The subscript 'ALL' cannot be specified in '@1@'. The subscript is assumed to be 1.**

### Parameter Explanation

@1@ : Function identifier that causes the error.

### Example

```

[P2769.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2769.
000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007     02 TBL OCCURS 10 PIC 9(2).
000008 77 A PIC 9(2).
000009 PROCEDURE    DIVISION.
000010     COMPUTE A = FUNCTION ACOS(TBL(ALL))
000011 END PROGRAM P2769.

```

P2769.cob 10: JMN2769I-S The subscript 'ALL' cannot be specified in 'FUNCTION ACOS'. The subscript is assumed to be 1.

### Explanation

A data-name with the keyword ALL can be specified as a subscript instead of writing individual subscripted data-names. Specifying ALL as a subscript passes all the table elements of the dimension to the function as if they were specified from left to right in the order of occurrence.

The subscript ALL can be specified for the following functions:

- MAX
- MEAN
- MEDIAN
- MIDRANGE
- MIN
- ORD-MAN
- ORD-MIN
- PRESENT-VALUE
- RANGE
- STANDARD-DEVIATION
- SUM
- VARIANCE
- ENUM-AND
- ENUM-OR

ENUM-AND and ENUM-OR are specific to the .NET.

## JMN2770I-S

The '@2@' phrase in the '@1@' statement is invalid.

### Parameter Explanation

@1@ : ACCEPT or DISPLAY.

@2@ : Reserved word of the phrase where the error occurs.

### Example

```
[P2770.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2770.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 AA PIC X(2).
000007 SCREEN           SECTION.
000008 01 A1 PIC X(8) FROM AA.
000009 PROCEDURE        DIVISION.
000010     ACCEPT A1
000011     AT LINE .
000012 END PROGRAM      P2770.
```

P2770.cob 11: JMN2770I-S The 'LINE' phrase in the 'ACCEPT' statement is invalid.

## JMN2772I-I

'@1@' is assumed to be a comment in this system.

### Parameter Explanation

@1@ : Reserved word that shows the statement, phrase, and specification that causes the error.

### Example

```
[P2772.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2772.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA             DIVISION.
000009 FILE               SECTION.
000010 FD SQFILE1
000011     RECORDING MODE IS V
000012     BLOCK CONTAINS 80 CHARACTERS.
000013 01 SQF1REC.
000014 02               PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WFS1            PIC X(2).
000017 PROCEDURE         DIVISION.
000018 END PROGRAM        P2772.
```

P2772.cob 10: JMN2772I-I 'BLOCK CONTAINS' is assumed to be a comment in this system.

## JMN2773I-E

Mnemonic-name '@1@' is assumed to be a comment in this system.

## Parameter Explanation

@1@ : Mnemonic-name which causes the error.

### Example

```
[P2773.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2773.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     BUSHU IS RULE1.
000007 INPUT-OUTPUT    SECTION.
000008 FILE-CONTROL.
000009     SELECT SQFILE1 ASSIGN TO SYS001.
000010     SELECT SQFILE2 ASSIGN TO SYS002.
000011     SELECT SRTFILE ASSIGN TO SYS003.
000012 I-O-CONTROL.
000013 DATA             DIVISION.
000014 FILE              SECTION.
000015 FD SQFILE1.
000016 01 SQF1REC.
000017 02              PIC X(80).
000018 FD SQFILE2.
000019 01 SQF2REC.
000020 02              PIC X(80).
000021 SD SRTFILE.
000022 01 SRTREC.
000023 02 SRTKEY      PIC X(8).
000024 02              PIC X(72).
000025 WORKING-STORAGE SECTION.
000026 01 WFS1        PIC X(2).
000027 PROCEDURE     DIVISION.
000028     SORT SRTFILE
000029     ASCENDING RULE1 KEY  SRTKEY
000030     USING SQFILE1
000031     GIVING SQFILE2
000032 END PROGRAM     P2773.
```

P2773.cob 29: JMN2773I-E Mnemonic-name 'RULE1' is assumed to be a comment in this system.

### Explanation

The mnemonic-name specified for the ASCENDING KEY phrase of the SORT statement or the MERGE statement is treated as a comment.

## JMN2774I-W

**'@1@' is a function that is specific to the MSP or XSP system.**

### Parameter Explanation

@1@ : CONNECT, DISCONNECT, ERASE, FIND, FINISH, GET, MODIFY, READY, STORE, IF DB-EXCEPTION, USE FOR DB-EXCEPTION, USE FOR DEAD-LOCK, or TRANSACTION.

### Example

```
[P2774.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2774.
000003 ENVIRONMENT     DIVISION.
000004 DATA             DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE     DIVISION.
```



```
000007 TRANSACTION START.
000008 END PROGRAM P2774.
```

P2774.cob 7: JMN2774I-W 'TRANSACTION' is a function that is specific to the MSP or XSP system.

#### Explanation

This diagnostic message indicates functions and elements that are specific to the OSIV-series.

### JMN2775I-S

**When a mnemonic-name in the UPON clause is related to function-name ARGUMENT-NUMBER, ENVIRONMENT-NAME, or ENVIRONMENT-VALUE, only one identifier or literal can be specified for the DISPLAY statement.**

#### Example

```
[P2775.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2775.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006 ENVIRONMENT-NAME IS EVN.
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 WENV1 PIC X(30).
000010 01 WENV2 PIC X(30).
000011 PROCEDURE DIVISION.
000012 MOVE "PATH" TO WENV1
000013 MOVE "LIB" TO WENV2
000014 DISPLAY WENV1 WENV2
000015 UPON EVN
000016 END PROGRAM P2775.
```

P2775.cob 14: JMN2775I-S When a mnemonic-name in the UPON clause is related to function-name ARGUMENT-NUMBER, ENVIRONMENT-NAME, or ENVIRONMENT-VALUE, only one identifier or literal can be specified for the DISPLAY statement.

### JMN2794I-E

**'@1@' is a function that is specific to the MSP or XSP system.**

#### Parameter Explanation

@1@ : CONNECT, DISCONNECT, ERASE, FIND, FINISH, GET, MODIFY, READY, STORE, IF DB-EXCEPTION, or SERVICE LABEL.

#### Example

```
[P2794.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2794.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE DIVISION.
000007 SERVICE LABEL
000008 END PROGRAM P2794.
```

P2794.cob 7: JMN2794I-E 'SERVICE LABEL' is a function that is specific to the MSP or XSP system.

#### Explanation

This diagnostic message indicates functions and elements that are specific to the OSIV-series.

## JMN2798I-S ([Win32])

The host variable of a binary item must be 4 or 9 digits.

Example

```
[P2798.cob]
000001 @OPTIONS BINARY(BYTE)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P2798.
000004 ENVIRONMENT      DIVISION.
000005 DATA              DIVISION.
000006 WORKING-STORAGE SECTION.
000007     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000008 01 SQLSTATE        PIC X(5).
000009 01 HVR1           PIC S9(3) BINARY.
000010     EXEC SQL END   DECLARE SECTION END-EXEC.
000011 PROCEDURE         DIVISION.
000012     EXEC SQL
000013         SELECT COL2 INTO :HVR1
000014         FROM T1      WHERE COL1 = 0
000015     END-EXEC
000016 END PROGRAM        P2798.
```

P2798.cob 9: JMN2798I-S The host variable of a binary item must be 4 or 9 digits.

## JMN2798I-S ([Winx64])

The host variable of a binary item must be @1@ digits.

Parameter Explanation

@1@ : The number of digits that can be specified.

Example

```
[P2798.cob]
000001 @OPTIONS BINARY(BYTE)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P2798.
000004 ENVIRONMENT      DIVISION.
000005 DATA              DIVISION.
000006 WORKING-STORAGE SECTION.
000007     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000008 01 SQLSTATE        PIC X(5).
000009 01 HVR1           PIC S9(3) BINARY.
000010     EXEC SQL END   DECLARE SECTION END-EXEC.
000011 PROCEDURE         DIVISION.
000012     EXEC SQL
000013         SELECT COL2 INTO :HVR1
000014         FROM T1      WHERE COL1 = 0
000015     END-EXEC
000016 END PROGRAM        P2798.
```

31-digit operation mode :

P2798.cob 9: JMN2798I-S The host variable of a binary item must be 4 , 9 or 18 digits.

18-digit operation mode :

P2798.cob 9: JMN2798I-S The host variable of a binary item must be 4 or 9 digits.

## JMN2800I-S ([Win32])

---

**The data-name in @1@ clause must be defined in the WORKING-STORAGE SECTION or LINKAGE SECTION.**

**Parameter Explanation**

@1@ : PROCESSING MODE, FORMAT, GROUP, SYMBOLIC DESTINATION, DESTINATION-1, DESTINATION-2, DESTINATION-3, MESSAGE MODE, END KEY, SESSION CONTROL, SELECTED FUNCTION or MESSAGE SEQUENCE.

**Example**

```
[P2800.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2800.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     FORMAT       IS WFMT.
000008 I-O-CONTROL.
000009 DATA           DIVISION.
000010 FILE           SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC.
000013 02             PIC X(80).
000014 CONSTANT       SECTION.
000015 01 WFMT        PIC X(8) VALUE SPACE.
000016 PROCEDURE      DIVISION.
000017 END PROGRAM     P2800.
```

P2800.cob 7: JMN2800I-S The data-name in FORMAT clause must be defined in the WORKING-STORAGE SECTION or LINKAGE SECTION.

**JMN2800I-S ([Winx64])**

---

**The data-name in @1@ clause must be defined in the WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION or LINKAGE SECTION.**

**Parameter Explanation**

@1@ : PROCESSING MODE, FORMAT, GROUP, SYMBOLIC DESTINATION, DESTINATION-1, DESTINATION-2, DESTINATION-3, MESSAGE MODE, END KEY, SESSION CONTROL, SELECTED FUNCTION or MESSAGE SEQUENCE.

**Example**

```
[P2800.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2800.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     FORMAT       IS WFMT.
000008 I-O-CONTROL.
000009 DATA           DIVISION.
000010 FILE           SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC.
000013 02             PIC X(80).
000014 CONSTANT       SECTION.
000015 01 WFMT        PIC X(8) VALUE SPACE.
000016 PROCEDURE      DIVISION.
000017 END PROGRAM     P2800.
```

P2800.cob 7: JMN2800I-S The data-name in FORMAT clause must be defined in the WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION or LINKAGE SECTION.

## JMN2801I-S

**The data-name in the @1@ clause must be an alphanumeric or group item. The group item should not be one that includes an object reference item.**

### Parameter Explanation

@1@ : PROCESSING MODE, FORMAT, GROUP, SYMBOLIC DESTINATION, DESTINATION-1, DESTINATION-2, DESTINATION-3, MESSAGE MODE, END KEY, SESSION CONTROL or SELECTED FUNCTION.

### Example

```
[P2801.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2801.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 REPOSITORY.
000006     CLASS FJBASE.
000007 INPUT-OUTPUT    SECTION.
000008 FILE-CONTROL.
000009     SELECT FILE1 ASSIGN TO GS-SYS001
000010     SYMBOLIC DESTINATION IS "DSP"
000011     FORMAT              IS WFMT
000012     GROUP                IS WSTYGRP
000013     DESTINATION-1       IS WDST1
000014     FILE STATUS       IS WFS1 WFS2.
000015 I-O-CONTROL.
000016 DATA             DIVISION.
000017 FILE               SECTION.
000018 FD FILE1.
000019 01 F1REC.
000020     02              PIC X(80).
000021 WORKING-STORAGE SECTION.
000022 01 WSTYGRP.
000023     02 WOBJ        OBJECT REFERENCE FJBASE.
000024 01 WFS1          PIC X(2).
000025 01 WFS2          PIC X(4).
000026 01 WDST         PIC X(3).
000027 01 WFMT         PIC X(8).
000028 01 WGRP         PIC X(8).
000029 01 WDST1        PIC X(8).
000030 PROCEDURE        DIVISION.
000031 END PROGRAM      P2801.
```

P2801.cob 12: JMN2801I-S The data-name in the GROUP clause must be an alphanumeric or group item. The group item should not be one that includes an object reference item.

## JMN2802I-S

**The data-name in the @1@ clause must be @2@ bytes in length.**

### Parameter Explanation

@1@ : PROCESSING MODE, FORMAT, GROUP, SYMBOLIC DESTINATION, DESTINATION-1, DESTINATION-2, DESTINATION-3, MESSAGE MODE, END KEY, SESSION CONTROL, PROCESSING CONTROL, SELECTED FUNCTION or MESSAGE SEQUENCE.

@2@ : Necessary number of bytes for the data item specified for the clause.

## Example

```
[P2802.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2802.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     FORMAT        IS WFMT.
000008 I-O-CONTROL.
000009 DATA           DIVISION.
000010 FILE            SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC.
000013 02              PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 01 WFMT          PIC X(2).
000016 PROCEDURE        DIVISION.
000017 END PROGRAM      P2802.
```

P2802.cob 7: JMN2802I-S The data-name in the FORMAT clause must be 8 bytes in length.

## JMN2803I-S

---

**The data-name in the MESSAGE CODE clause must be an alphanumeric item or an unsigned external decimal item that is an integer.**

### Example

```
[P2803.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2803.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT PRFILE1 ASSIGN TO GS-SYS001
000007     SYMBOLIC DESTINATION IS WDST
000008     MESSAGE CODE      IS WMSC.
000009 I-O-CONTROL.
000010 DATA           DIVISION.
000011 FILE            SECTION.
000012 FD PRFILE1.
000013 01 PRF1REC.
000014 02              PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WDST          PIC X(3).
000017 01 WMSC          PIC N(2).
000018 PROCEDURE        DIVISION.
000019 END PROGRAM      P2803.
```

P2803.cob 8: JMN2803I-S The data-name in the MESSAGE CODE clause must be an alphanumeric item or an unsigned external decimal item that is an integer.

## JMN2809I-S

---

**The name of the PRINTING POSITION clause must be a unique positioning-unit-name.**

### Example

```
[P2809.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2809.
000003 ENVIRONMENT     DIVISION.
```

```

000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006     POSITIONING UNIT PUN-A IS 12 CPI
000007     POSITIONING UNIT PUN-B IS 10 CPI
000008     POSITIONING UNIT PUN-B ARE 15 CPI.
000009 DATA DIVISION.
000010 WORKING-STORAGE SECTION.
000011     01 REC-A PIC X(10) PRINTING POSITION IS 10 BY PUN-A.
000012     01 REC-B PIC X(10) PRINTING POSITION IS 10 BY PUN-B.
000013 PROCEDURE DIVISION.
000014 END PROGRAM P2809.

```

P2809.cob 12: JMN2809I-S The name of the PRINTING POSITION clause must be a unique positioning-unit-name.

### Explanation

A positioning-unit-name is the name given to the value indicating the column to be printed. A positioning-unit-name must be associated with a literal by using the POSITIONING UNIT clause in the SPECIAL-NAMES paragraph.

### JMN2815I-S

**The data-name in the @1@ clause must not exceed @2@ bytes in length.**

#### Parameter Explanation

@1@ : RECORD KEY or ALTERNATE RECORD KEY.

@2@ : 255 or 253.

#### Example

```

[P2815.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2815.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IXFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     RECORD KEY IS WRKY1
000009     WRKY2
000010     WRKY3.
000011 I-O-CONTROL.
000012 DATA DIVISION.
000013 FILE SECTION.
000014 FD IXFILE1.
000015 01 IXF1REC.
000016 02 WRKY1 PIC X(86).
000017 02 WRKY2 PIC X(86).
000018 02 WRKY3 PIC X(86).
000019 02 PIC X(80).
000020 WORKING-STORAGE SECTION.
000021 PROCEDURE DIVISION.
000022 END PROGRAM P2815.

```

P2815.cob 10: JMN2815I-S The data-name in the RECORD KEY clause must not exceed 255 bytes in length.

### Explanation

The 255 byte maximum length is a restriction of the COBOL processing system.

### JMN2818I-W

**Data-name '@2@' in the @1@ clause of the RDB indexed file must be specified for an alphanumeric, national, internal decimal, binary, or group item. An alphanumeric item is assumed.**

## Parameter Explanation

@1@ : RECORD KEY or ALTERNATE RECORD KEY.

@2@ : Data name which causes error.

## Example

```
[P2818.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P2818.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007     SELECT IXFILE1 ASSIGN TO MODELDB-VI-STOCK
000008     ORGANIZATION IS INDEXED
000009     RECORD KEY IS QNO GOODS.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD IXFILE1.
000013 01 IXF1REC.
000014     02 QNO PIC A(2).
000015     02 GOODS PIC N(80).
000016     02 PRICE PIC S9(9) BINARY.
000017 PROCEDURE DIVISION.
000018 END PROGRAM P2818.
```

P2818.cob 9: JMN2818I-W Data-name 'QNO' in the RECORD KEY clause of the RDB indexed file must be specified for an alphanumeric, national, internal decimal, binary, or group item. An alphanumeric item is assumed.

## Explanation

The RDB indexed file is specific to the OSIV-series.

## JMN2819I-S

**A presentation file (organization 'GS') with an APPLY MULTICONVERSATION-MODE clause must also specify an APPLY SAVED-AREA clause for that presentation file.**

## Example

```
[P2819.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2819.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT AFILE1 ASSIGN GS-DD1.
000007 I-O-CONTROL.
000008     APPLY MULTICONVERSATION-MODE.
000009 DATA DIVISION.
000010 FILE SECTION.
000011     FD AFILE1.
000012     01 AREC.
000013     02 RKY1 PIC X(80).
000014 PROCEDURE DIVISION.
000015 END PROGRAM P2819.
```

P2819.cob 8: JMN2819I-S A presentation file (organization 'GS') with an APPLY MULTICONVERSATION-MODE clause must also specify an APPLY SAVED-AREA clause for that presentation file.

## JMN2821I-W

---

**The VALUE clause cannot be specified for a subordinate item of a group item with a VALUE clause. The VALUE clause is ignored.**

**Example**

```
[P2821.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2821.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WGRP          VALUE SPACE.
000006 02 WELM1         PIC X(2).
000007 02 WELM2         PIC X(2) VALUE "AB" .
000008 02 WELM3         PIC X(2).
000009 PROCEDURE        DIVISION.
000010 END PROGRAM      P2821.
```

P2821.cob 7: JMN2821I-W The VALUE clause cannot be specified for a subordinate item of a group item with a VALUE clause. The VALUE clause is ignored.

**Explanation**

An initial value cannot be set by specifying the VALUE clause for the item subordinate to the group item when an initial value to the group item has already been specified by the VALUE clause.

**JMN2822I-W**

---

**A VALUE clause cannot be specified for a variable-address item. The VALUE clause is ignored.**

**Example**

```
[P2822.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2822.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WGRP.
000006 02 WLEN          PIC 9(2).
000007 02 WOCC          PIC X(2) OCCURS 20 DEPENDING ON WLEN.
000008 02 WVAD          PIC X(2) VALUE "AB" .
000009 PROCEDURE        DIVISION.
000010 END PROGRAM      P2822.
```

P2822.cob 8: JMN2822I-W A VALUE clause cannot be specified for a variable-address item. The VALUE clause is ignored.

**Explanation**

The VALUE clause cannot be specified for the data item allocated at the variable position in the record. The variable position is the area allocated after the variable occurrence data item (the data item that has the OCCURS clause with the DEPENDING phrase) in a record.

**JMN2823I-S**

---

**If the presentation file (organization 'GS') is not defined, a file-name must be specified in the @1@ clause.**

**Parameter Explanation**

@1@ : APPLY MULTICONVERSATION-MODE or APPLY SAVED-AREA.

**Example**

```
[P2823.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2823.
000003 ENVIRONMENT      DIVISION.
```



```

000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS SEQUENTIAL.
000008 I-O-CONTROL.
000009     APPLY SAVED-AREA TO WSVAR.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02 PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WSVAR PIC X(80).
000017 PROCEDURE DIVISION.
000018 END PROGRAM P2823.

```

P2823.cob 9: JMN2823I-S If the presentation file (organization 'GS') is not defined, a file-name must be specified in the APPLY SAVED-AREA clause.

## JMN2826I-S

**@1@ must be an alphanumeric item.**

### Parameter Explanation

@1@ : SQLMSG

### Example

```

[P2826.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2826.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 HVAR1 PIC S9(9) BINARY.
000008 01 SQLSTATE PIC X(5).
000009 01 SQLMSG.
000010 02 PIC S9(4).
000011 02 PIC X(50).
000012 EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014 EXEC SQL WHENEVER SQLERROR CONTINUE END-EXEC
000015 EXEC SQL
000016     SELECT CL1 FROM T1
000017     INTO :HVAR1
000018 END-EXEC
000019 END PROGRAM P2826.

```

P2826.cob 9: JMN2826I-S SQLMSG must be an alphanumeric item.

### Explanation

If an exception event occurs during the execution of an SQL statement, a message indicating the nature of the event is posted to the application program. SQLMSG is the area where this message is stored.

SQLMSG must be defined as an alphanumeric item, and it must be declared as either a level 01 or level 77 item.

## JMN2827I-S

**The @1@ clause cannot be specified in a presentation file (organization 'GS').**

## Parameter Explanation

@1@ : BLOCK CONTAINS, LABEL RECORD, FORMATTED RECORD or CONTROL RECORD.

## Example

```
[P2827.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2827.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT PRFILE1 ASSIGN TO GS-SYS001
000007     SYMBOLIC DESTINATION IS "DSP"
000008     FORMAT          IS WFMT.
000009 DATA             DIVISION.
000010 FILE              SECTION.
000011 FD PRFILE1
000012     CONTROL RECORD IS CTL.
000013 01 PRF1REC.
000014 02                PIC X(80).
000015 01 CTLREC         PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 01 WFMT           PIC X(8).
000018 PROCEDURE        DIVISION.
000019 END PROGRAM       P2827.
```

P2827.cob 12: JMN2827I-S The CONTROL RECORD clause cannot be specified in a presentation file (organization 'GS').

## JMN2829I-S

**Data-name '@1@' in the KEY IS phrase must be a binary, internal decimal, external decimal, numeric edited, alphabetic, alphanumeric, alphanumeric edited, national, or national edited item.**

## Parameter Explanation

@1@ : Data name which causes error.

## Example

```
[P2829.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2829.
000003 ENVIRONMENT     DIVISION.
000004 DATA             DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WOCC           OCCURS 26 ASCENDING KEY IS WKEY.
000008 03 WKEY          PIC 1(8).
000009 03 WVAL         PIC X(1).
000010 PROCEDURE        DIVISION.
000011 END PROGRAM       P2829.
```

P2829.cob 7: JMN2829I-S Data-name 'WKEY' in the KEY IS phrase must be a binary, internal decimal, external decimal, numeric edited, alphabetic, alphanumeric, alphanumeric edited, national, or national edited item.

## JMN2831I-W

**A RECORDING MODE clause cannot be specified for a sequential (organization 'VS' or 'AS'), relative, indexed, presentation, or print file with a FORMAT clause. The RECORDING MODE clause is ignored.**

## Example

```
[P2831.cob]
000001 IDENTIFICATION DIVISION.
```

```

000002 PROGRAM-ID.      P2831.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO VS-SYS001
000007     ORGANIZATION  IS SEQUENTIAL
000008     FILE STATUS   IS WFS1.
000009 DATA            DIVISION.
000010 FILE             SECTION.
000011 FD SQFILE1
000012     RECORDING MODE IS V.
000013 01 SQF1REC.
000014 02              PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WFS1          PIC X(2).
000017 PROCEDURE         DIVISION.
000018 END PROGRAM       P2831.

```

P2831.cob 12: JMN2831I-W A RECORDING MODE clause cannot be specified for a sequential (organization 'VS' or 'AS'), relative, indexed, presentation, or print file with a FORMAT clause. The RECORDING MODE clause is ignored.

### Explanation

The RECORDING MODE clause is specific to the OSIV-series.

### JMN2832I-S

**The record length of the presentation file, chart file, or print file with a FORMAT clause cannot exceed @1@ bytes. A record length of @1@ bytes is assumed.**

### Parameter explanation

@1@ : 32767 | 65535

### Example

```

[P2832.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2832.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO GS-SYS001
000007     SYMBOLIC DESTINATION IS "DSP".
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1.
000011 01 SQF1REC.
000012 02              PIC X(32768).
000013 WORKING-STORAGE SECTION.
000014 01 WFS1          PIC X(2).
000015 PROCEDURE         DIVISION.
000016 END PROGRAM       P2832.

```

P2832.cob 10: JMN2832I-S The record length of the presentation file, chart file, or print file with a FORMAT clause cannot exceed 32767 bytes. A record length of 32767 bytes is assumed.

### Explanation

It is a restriction of the COBOL processing system.

### JMN2834I-S

The data-name in the '@1@' clause must be an unsigned external decimal item that is an integer without the symbol 'P'.

#### Parameter Explanation

@1@ : MESSAGE CLASS, MESSAGE SEQUENCE or PROCESSING TIME.

#### Example

```
[P2834.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2834.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT PRFILE1 ASSIGN TO GS-SYS001
000007     SYMBOLIC DESTINATION IS "DSP"
000008     FORMAT          IS WFMT
000009     MESSAGE CLASS    IS WMCL.
000010 DATA            DIVISION.
000011 FILE              SECTION.
000012 FD PRFILE1.
000013 01 PRF1REC.
000014 02                PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WFMT            PIC X(8).
000017 01 WMCL            PIC X(8).
000018 PROCEDURE         DIVISION.
000019 END PROGRAM        P2834.
```

P2834.cob 9: JMN2834I-S The data-name in the 'MESSAGE CLASS' clause must be an unsigned external decimal item that is an integer without the symbol 'P'.

#### Explanation

A "P" in the PICTURE character-string indicates an assumed decimal scaling position.

### JMN2835I-S

Data-name '@1@' in the KEY IS phrase cannot be a variable-length item.

#### Parameter Explanation

@1@ : Data name that causes the error.

#### Example

```
[P2835.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2835.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WKEYLEN PIC S9(4) BINARY.
000008 02 WOCC     OCCURS 26 ASCENDING KEY IS WKEY.
000009 03 WKEY.
000010 04         PIC X(1) OCCURS 5 DEPENDING ON WKEYLEN.
000011 03 WVAL   PIC X(1).
000012 PROCEDURE  DIVISION.
000013 END PROGRAM    P2835.
```

P2835.cob 8: JMN2835I-S Data-name 'WKEY' in the KEY IS phrase cannot be a variable-length item.

## Explanation

The data item specified for the KEY IS phrase should not be an item that specifies an OCCURS clause with a DEPENDING phrase or an item including it.

### JMN2836I-S

**The mnemonic-name in the CHARACTER TYPE clause is undefined, defined multiple times, or related to an invalid function-name.**

#### Example

```
[P2836.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2836.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP CHARACTER TYPE PM-1.
000007     02 XITM      PIC X(10).
000008     02 NITM      PIC N(10).
000009 PROCEDURE        DIVISION.
000010 END PROGRAM      P2836.
```

P2836.cob 6: JMN2836I-S The mnemonic-name in the CHARACTER TYPE clause is undefined, defined multiple times, or related to an invalid function-name.

## Explanation

A mnemonic-name specified in the CHARACTER TYPE clause must be associated with a function-name in the SPECIAL-NAMES paragraph of the ENVIRONMENT DIVISION.

When MODE-1, MODE-2 or MODE-3 is specified in the CHARACTER TYPE clause, the mnemonic-name should be associated with one of the following function-names:

- HSC, F0202, H0202, F0102, F0201

When mnemonic-name is only specified in the CHARACTER TYPE clause, the mnemonic-name should be associated with the function-name starting with one of the following character-strings:

- GTA, GTB, GTC, GTD, GTX, GYA, GYB, GYC, GYD, GYX
- TA, TB, TC, TD, TX, YA, YB, YC, YD, YX

### JMN2837I-S

**The mnemonic-name in the CHARACTER TYPE clause is related to a function-name that is not supported in the report writer module.**

#### Example

```
[P2837.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2837.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION    SECTION.
000005 SPECIAL-NAMES.
000006     TX-12P IS PM1.
000007 INPUT-OUTPUT     SECTION.
000008 FILE-CONTROL.
000009     SELECT SQFILE1 ASSIGN TO SYS001.
000010     SELECT REPF1   ASSIGN TO SYS002.
000011 DATA           DIVISION.
000012 FILE            SECTION.
000013 FD SQFILE1.
000014 01 SQF1REC      PIC N(40).
```

```

000015 FD REPPFILE
000016     REPORT IS REP1.
000017 WORKING-STORAGE SECTION.
000018 01 WFS1          PIC X(2).
000019 REPORT          SECTION.
000020 RD REP1 PAGE 66.
000021 01 DE-REC TYPE DE CHARACTER TYPE PML.
000022 02 LINE PLUS 1.
000023 03 COLUMN 1 PIC N(40) SOURCE SQF1REC.
000024 PROCEDURE      DIVISION.
000025 END PROGRAM    P2837.

```

P2837.cob 21: JMN2837I-S The mnemonic-name in the CHARACTER TYPE clause is related to a function-name that is not supported in the report writer module.

### Explanation

A mnemonic-name specified in the CHARACTER TYPE clause must be associated with a function-name in the SPECIAL-NAMES paragraph of the ENVIRONMENT DIVISION.

When MODE-1, MODE-2 or MODE-3 is specified in the CHARACTER TYPE clause, the mnemonic-name should be associated with one of the following function-names:

- HSC, F0202, H0202, F0102, F0201

When mnemonic-name is only specified in the CHARACTER TYPE clause, the mnemonic-name should be associated with the function-name starting with one of the following character-strings:

- GTA, GTB, GTC, GTD, GTX, GYA, GYB, GYC, GYD, GYX
- TA, TB, TC, TD, TX, YA, YB, YC, YD, YX

### JMN2838I-S

**The FORMATTED RECORD clause can only be specified for a presentation file, chart file, or print file with a FORMAT clause.**

#### Example

```

[P2838.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2838.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1
000011     FORMATTED RECORD FREQ.
000012 01 SQF1REC.
000013 02              PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE      DIVISION.
000016 END PROGRAM    P2838.

```

P2838.cob 11: JMN2838I-S The FORMATTED RECORD clause can only be specified for a presentation file, chart file, or print file with a FORMAT clause.

### Explanation

The FORMATTED RECORD clause is specific to the OSIV-series.

### JMN2839I-S

**A CONTROL RECORD clause can only be specified for a presentation file or a print file with a FORMAT clause.**

**Example**

```
[P2839.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2839.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT PRFILE1 ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD PRFILE1
000010     CONTROL RECORD IS CTLREC.
000011 01 PRF1REC.
000012 02             PIC X(80).
000013 01 CTLREC     PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 01 WFMT       PIC X(8).
000016 PROCEDURE     DIVISION.
000017 END PROGRAM    P2839.
```

P2839.cob 10: JMN2839I-S A CONTROL RECORD clause can only be specified for a presentation file or a print file with a FORMAT clause.

**JMN2840I-S**

**Only one data-name can be specified in the RECORD KEY clause of an indexed organization file. The first data-name is used.**

**Example**

```
[P2840.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2840.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IXFILE1 ASSIGN TO I-SYS001
000007     RECORD KEY IS  RKEY1 RKEY2
000008     NOMINAL KEY IS  AKEY
000009     .
000010 I-O-CONTROL.
000011 DATA           DIVISION.
000012 FILE            SECTION.
000013 FD IXFILE1.
000014 01 IXF1REC.
000015 02 RKEY1       PIC X(8).
000016 02 RKEY2       PIC X(8).
000017 02             PIC X(80).
000018 WORKING-STORAGE SECTION.
000019 01 AKEY        PIC X(8).
000020 PROCEDURE     DIVISION.
000021 END PROGRAM    P2840.
```

P2840.cob 7: JMN2840I-S Only one data-name can be specified in the RECORD KEY clause of an indexed organization file. The first data-name is used.

**Explanation**

An indexed organization file (file-identifier of ASSIGN clause is 'I-name') is specific to the OSIV series.

## JMN2847I-S

'@1@' must be a unique symbolic constant.

### Parameter Explanation

@1@ : Data name that causes the error.

### Example

```
[P2847.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2847.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     SYMBOLIC CONSTANT
000007     BLKLEN IS 80.
000008 INPUT-OUTPUT    SECTION.
000009 FILE-CONTROL.
000010     SELECT SQFILE1 ASSIGN TO SYS001.
000011 DATA           DIVISION.
000012 FILE            SECTION.
000013 FD SQFILE1
000014     BLOCK CONTAINS BLKLEN RECORDS.
000015 01 SQF1REC      PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 01 BLKLEN       PIC S9(2) BINARY.
000018 PROCEDURE       DIVISION.
000019 END PROGRAM      P2847.
```

P2847.cob 14: JMN2847I-S 'BLKLEN' must be a unique symbolic constant.

## JMN2851I-S ([Win32])

A pointer data item can only be defined in the BASED-STORAGE SECTION, WORKING-STORAGE SECTION, CONSTANT SECTION, or LINKAGE SECTION.

### Example

```
[P2851.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2851.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD SQFILE1.
000010 01 SQF1REC.
000011 02 WPX         POINTER.
000012 02             PIC X(72).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE       DIVISION.
000015 END PROGRAM      P2851.
```

P2851.cob 11: JMN2851I-S A pointer data item can only be defined in the BASED-STORAGE SECTION, WORKING-STORAGE SECTION, CONSTANT SECTION, or LINKAGE SECTION.

## JMN2851I-S ([Winx64])

A pointer data item can only be defined in the BASED-STORAGE SECTION, WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION, CONSTANT SECTION, or LINKAGE SECTION.



## Example

```
[P2851.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2851.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD SQFILE1.
000010 01 SQF1REC.
000011 02 WPX         POINTER.
000012 02            PIC X(72).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE      DIVISION.
000015 END PROGRAM    P2851.
```

P2851.cob 11: JMN2851I-S A pointer data item can only be defined in the BASED-STORAGE SECTION, WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION, CONSTANT SECTION, or LINKAGE SECTION.

## JMN2853I-S

**The PRINTING POSITION clause cannot be specified for a pointer data item.**

### Example

```
[C2853.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C2853.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 US001 PRINTING POSITION IS 5
000007     USAGE POINTER.
000008 PROCEDURE      DIVISION.
000009     STOP RUN.
```

C2853.cob 6: JMN2853I-S The PRINTING POSITION clause cannot be specified for a pointer data item.

## JMN2862I-S

**A numeric literal cannot be specified in the VALUE clause of an alphanumeric, alphanumeric edited, or group item. A nonnumeric literal of the same length is assumed to be specified.**

### Example

```
[C2862.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C2862.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 ALP-CV        PIC X(2) VALUE 12.
000007 PROCEDURE      DIVISION.
000008 END PROGRAM    C2862.
```

C2862.cob 6: JMN2862I-S A numeric literal cannot be specified in the VALUE clause of an alphanumeric, alphanumeric edited, or group item. A nonnumeric literal of the same length is assumed to be specified.

## Explanation

When the VALUE clause is specified for an alphanumeric item, alphanumeric edited item or group item, the literal of the VALUE clause should be a nonnumeric literal.

### JMN2863I-S

**A numeric literal cannot be specified in a VALUE clause of a condition-name for a conditional variable of an alphanumeric, alphanumeric edited, or group item. A nonnumeric literal of the same length is assumed to be specified.**

#### Example

```
[C2863.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C2863.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 ALP-CV       PIC X(2).
000007 88 C1          VALUE "12".
000008 88 C2          VALUE 24.
000009 PROCEDURE      DIVISION.
000010 END PROGRAM     C2863.
```

C2863.cob 8: JMN2863I-S A numeric literal cannot be specified in a VALUE clause of a condition-name for a conditional variable of an alphanumeric, alphanumeric edited, or group item. A nonnumeric literal of the same length is assumed to be specified.

## Explanation

A nonnumeric literal should be specified for the VALUE clause of the condition-name description entry (level-number 88), when the conditional variable is an alphanumeric item, alphanumeric edited item or group item.

### JMN2864I-S

**A RECORD clause with a VARYING phrase cannot be specified for a relative organization file.**

#### Example

```
[P2864.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2864.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO R-SYS001
000007     RELATIVE KEY IS RKEY
000008     ACCESS MODE IS RANDOM.
000009 DATA           DIVISION.
000010 FILE           SECTION.
000011 FD SQFILE1
000012     RECORD VARYING IN SIZE
000013     DEPENDING ON LRECL.
000014 01 SQF1REC.
000015 02           PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 01 RKEY       PIC 9(8) BINARY.
000018 01 LRECL    PIC 9(8) BINARY.
000019 PROCEDURE      DIVISION.
000020 END PROGRAM     P2864.
```

P2864.cob 12: JMN2864I-S A RECORD clause with a VARYING phrase cannot be specified for a relative organization file.

## Explanation

A relative organization file (file-identifier of ASSIGN clause is 'R-name') is specific to the OSIV-series.

### JMN2866I-S

**The figurative constant NULL cannot be specified in a VALUE clause except for a pointer data item.**

#### Example

```
[P2866.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2866.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WNUM        PIC S9(9) BINARY VALUE NULL.
000007 PROCEDURE      DIVISION.
000008 END PROGRAM     P2866.
```

P2866.cob 6: JMN2866I-S The figurative constant NULL cannot be specified in a VALUE clause except for a pointer data item.

### JMN2867I-S

**The figurative constant ZERO or NULL must be specified in the VALUE clause of a pointer data item.**

#### Example

```
[P2867.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2867.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WPX          POINTER VALUE 1.
000007 PROCEDURE      DIVISION.
000008 END PROGRAM     P2867.
```

P2867.cob 6: JMN2867I-S The figurative constant ZERO or NULL must be specified in the VALUE clause of a pointer data item.

### JMN2868I-S

**The figurative constant ZERO or NULL must be specified in the VALUE clause of the condition-name for the conditional variable of the pointer data item.**

#### Example

```
[P2868.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2868.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WPX          POINTER.
000007 88 ZOKPX      VALUE ZERO.
000008 88 ZNGPX      VALUE 1.
000009 PROCEDURE      DIVISION.
000010 END PROGRAM     P2868.
```

P2868.cob 8: JMN2868I-S The figurative constant ZERO or NULL must be specified in the VALUE clause of the condition-name for the conditional variable of the pointer data item.

### JMN2870I-S

---

**File '@1@' in the APPLY WRITE-ONLY clause must be a sequential file with a variable length format.**

**Parameter Explanation**

@1@ : File name that causes the error.

**Example**

```
[P2870.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2870.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008     APPLY WRITE-ONLY ON SQFILE1.
000009 DATA            DIVISION.
000010 FILE             SECTION.
000011 FD SQFILE1 BLOCK CONTAINS 160.
000012 01 SQF1REC.
000013 02              PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE        DIVISION.
000016 END PROGRAM      P2870.
```

P2870.cob 11: JMN2870I-S File 'SQFILE1' in the APPLY WRITE-ONLY clause must be a sequential file with a variable length format.

**Explanation**

The APPLY WRITE-ONLY clause is specific to the OSIV-series.

**JMN2871I-S ([Win32])**

---

**The data-name in the @1@ clause must be defined in the WORKING-STORAGE SECTION, LINKAGE SECTION, or CONSTANT SECTION.**

**Parameter Explanation**

@1@ : PASSWORD.

**Example**

```
[P2871.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2871.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE
000007     ORGANIZATION IS INDEXED
000008     RECORD KEY IS K1 PASSWORD IS P1.
000009 DATA            DIVISION.
000010 BASED-STORAGE SECTION.
000011 01 P1 PIC X(4).
000012 FILE             SECTION.
000013 FD IN-F.
000014 01 REC1.
000015 02 IN-R PIC X(80).
000016 02 K1 PIC X(4).
000017 END PROGRAM      P2871.
```

P2871.cob 8: JMN2871I-S The data-name in the PASSWORD clause must be defined in the WORKING-STORAGE SECTION, LINKAGE SECTION, or CONSTANT SECTION.

P2871.cob 8: JMN1477I-I In this system, 'PASSWORD' is assumed to be a comment.

## JMN2871I-S ([Winx64])

**The data-name in the @1@ clause must be defined in the WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION, LINKAGE SECTION, or CONSTANT SECTION.**

Parameter Explanation

@1@ : PASSWORD.

Example

```
[P2871.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2871.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-F ASSIGN INFILE
000007     ORGANIZATION IS INDEXED
000008     RECORD KEY IS K1 PASSWORD IS P1.
000009 DATA             DIVISION.
000010 BASED-STORAGE SECTION.
000011 01 P1 PIC X(4).
000012 FILE             SECTION.
000013 FD IN-F.
000014 01 RECL.
000015 02 IN-R PIC X(80).
000016 02 K1 PIC X(4).
000017 END PROGRAM     P2871.
```

P2871.cob 8: JMN2871I-S The data-name in the PASSWORD clause must be defined in the WORKING-STORAGE SECTION, LOCAL-STORAGE, LINKAGE SECTION, or CONSTANT SECTION.

P2871.cob 8: JMN1477I-I In this system, 'PASSWORD' is assumed to be a comment.

## JMN2873I-S

**COMPUTATIONAL-4 must be specified for the numeric item.**

Example

```
[P2873.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2873.
000003 ENVIRONMENT     DIVISION.
000004 DATA             DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDX             PIC X(4) COMPUTATIONAL-4.
000007 PROCEDURE        DIVISION.
000008 END PROGRAM     P2873.
```

P2873.cob 6: JMN2873I-S COMPUTATIONAL-4 must be specified for the numeric item.

## JMN2874I-W

**The item redefined by the REDEFINES clause is a variable-length item. The REDEFINES clause is assumed to be valid.**

Example

```
[P2874.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2874.
```

```

000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA.
000007 02 WSIZE      PIC S9(4) BINARY.
000008 02 WOCC      PIC X(2) OCCURS 100
000009                      DEPENDING ON WSIZE.
000010 01 WRDA REDEFINES WDA.
000011 02          PIC X(202) .
000012 PROCEDURE     DIVISION.
000013 END PROGRAM   P2874.

```

P2874.cob 10: JMN2874I-W The item redefined by the REDEFINES clause is a variable-length item. The REDEFINES clause is assumed to be valid.

## JMN2875I-W

**The redefining item contains a variable occurrence data item. The REDEFINES clause is assumed to be valid.**

### Example

```

[P2875.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2875.
000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WBUF        PIC X(100) .
000007 01 WGRP REDEFINES WBUF.
000008 02 WDPEND     PIC S9(4) BINARY.
000009 02 WOCC      OCCURS 10 DEPENDING ON WDPEND.
000010 03          PIC X(1) .
000011 PROCEDURE     DIVISION.
000012 END PROGRAM   P2875.

```

P2875.cob 7: JMN2875I-W The redefining item contains a variable occurrence data item. The REDEFINES clause is assumed to be valid.

## JMN2877I-S

**A SIGN clause is specified for an external floating-point item. The SIGN clause is assumed to be a comment.**

### Example

```

[P2877.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2877.
000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WEXFL      PIC +99.99E+99 SIGN LEADING SEPARATE.
000007 PROCEDURE     DIVISION.
000008 END PROGRAM   P2877.

```

P2877.cob 6: JMN2877I-S A SIGN clause is specified for an external floating-point item. The SIGN clause is assumed to be a comment.

### Explanation

A SIGN clause cannot be specified in an external floating-point item. The SIGN clause is treated as comment, and neither the object file nor the executable file is generated in this case.

## JMN2878I-S ([Win32])

The host variable of a binary item cannot contain the symbols P and V, and must be 4 or 9 digits.

### Example

```
[P2878.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2878.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE      PIC X(5).
000008 01 HVR1         PIC S9(10) BINARY.
000009     EXEC SQL END   DECLARE SECTION END-EXEC.
000010 PROCEDURE       DIVISION.
000011     EXEC SQL
000012         SELECT COL2 INTO :HVR1
000013         FROM T1     WHERE COL1 = 0
000014     END-EXEC
000015 END PROGRAM      P2878.
```

P2878.cob 8: JMN2878I-S The host variable of a binary item cannot contain the symbols P and V, and must be 4 or 9 digits.

### Explanation

When a binary item is declared as a host variable (data description entry of the embedded SQL declare section of the data division), it should be an integer item.

## JMN2878I-S ([Winx64])

The host variable of a binary item cannot contain the symbols P and V, and must be @1@ digits.

### Parameter Explanation

@1@ : The number of digits that can be specified.

### Example

```
[P2878.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2878.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE      PIC X(5).
000008 01 HVR1         PIC S9(10) BINARY.
000009     EXEC SQL END   DECLARE SECTION END-EXEC.
000010 PROCEDURE       DIVISION.
000011     EXEC SQL
000012         SELECT COL2 INTO :HVR1
000013         FROM T1     WHERE COL1 = 0
000014     END-EXEC
000015 END PROGRAM      P2878.
```

P2878.cob 8: JMN2878I-S The host variable of a binary item cannot contain the symbols P and V, and must be 4 or 9 digits.

### Explanation

When a binary item is declared as a host variable (data description entry of the embedded SQL declare section of the data division), it should be an integer item.

## JMN2879I-S

**The host variable defined as an alphanumeric item must not exceed @1@ bytes in length.**

### Parameter Explanation

@1@ : 32692

### Example

```
[P2879.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2879.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE     PIC X(5).
000008 01 HVR1        PIC X(35000).
000009     EXEC SQL END   DECLARE SECTION END-EXEC.
000010 PROCEDURE       DIVISION.
000011     EXEC SQL
000012         SELECT COL2 INTO :HVR1
000013         FROM T1   WHERE COL1 = 0
000014     END-EXEC
000015 END PROGRAM      P2879.
```

P2879.cob 8: JMN2879I-S The host variable defined as an alphanumeric item must not exceed 32692 bytes in length.

### Explanation

When the alphanumeric item is declared as a host variable (data description entry of the embedded SQL declare section of the data division), the length of the item should be 32692 bytes or less.

## JMN2880I-S

**The number of characters for the host variable defined as a national item cannot exceed @1@.**

### Parameter Explanation

@1@ : 16346

### Example

```
[P2880.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2880.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE     PIC X(5).
000008 01 HVR1        PIC N(16347).
000009     EXEC SQL END   DECLARE SECTION END-EXEC.
000010 PROCEDURE       DIVISION.
000011     EXEC SQL
000012         SELECT COL2 INTO :HVR1
000013         FROM T1   WHERE COL1 = 0
000014     END-EXEC
000015 END PROGRAM      P2880.
```

P2880.cob 8: JMN2880I-S The number of characters for the host variable defined as a national item cannot exceed 16346.



## Explanation

When a national item is declared as a host variable (data description entry of the embedded SQL declare section of the data division), the number of characters should be 16346 characters or less.

## JMN2881I-S

### The host variable of an internal decimal item cannot contain the symbol P.

#### Example

```
[P2881.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2881.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE      PIC X(5).
000008 01 HVR1         PIC S9(5)P PACKED-DECIMAL.
000009     EXEC SQL END   DECLARE SECTION END-EXEC.
000010 PROCEDURE       DIVISION.
000011     EXEC SQL
000012         SELECT COL2 INTO :HVR1
000013         FROM T1     WHERE COL1 = 0
000014     END-EXEC
000015 END PROGRAM      P2881.
```

P2881.cob 8: JMN2881I-S The host variable of an internal decimal item cannot contain the symbol P.

## Explanation

When a packed decimal item is declared as a host variable (data description entry of the embedded SQL declare section of the data division), the PICTURE character-string does not contain 'P' (symbol that shows the assumed decimal scaling position). The assumed decimal point ('V' of the PICTURE character-string) can be included.

## JMN2882I-S

### The host variable must be a binary, external decimal, alphanumeric, national, internal float, internal decimal, or fixed length group item.

#### Example

```
[P2882.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2882.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE      PIC X(5).
000008 01 HVR1         POINTER.
000009     EXEC SQL END   DECLARE SECTION END-EXEC.
000010 PROCEDURE       DIVISION.
000011     EXEC SQL
000012         SELECT COL2 INTO :HVR1
000013         FROM T1     WHERE COL1 = 0
000014     END-EXEC
000015 END PROGRAM      P2882.
```

P2882.cob 8: JMN2882I-S The host variable must be a binary, external decimal, alphanumeric, national, internal float, internal decimal, or fixed length group item.

## Explanation

The host variable defined by the embedded SQL declare section of the data division is used to store data from the application program in the database and to fetch the data from the database. Host variables must be defined as one of the types allowed in the syntax for host variables.

### JMN2883I-S

**Items subordinate to a host variable of variable-length string type must be a combination of a signed binary item and either an alphanumeric item or a national item.**

#### Example

```
[C2883.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C2883.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE PIC X(5).
000008 01 HVAR1.
000009     49 HVAR1-LEN PIC 9(9) BINARY.
000010     49 HVAR1-NCH PIC N(16).
000011 01 HVAR2.
000012     49 HVAR2-LEN PIC S9(4) BINARY.
000013     49 HVAR2-CHR PIC X(8).
000014     49 HVAR2-DEC PIC 9(8).
000015     EXEC SQL END DECLARE SECTION END-EXEC.
000016 PROCEDURE DIVISION.
000017     EXEC SQL
000018         SELECT CL1,CL2 INTO :HVAR1, :HVAR2 FROM TBL END-EXEC.
```

C2883.cob 8: JMN2883I-S Items subordinate to a host variable of variable-length string type must be a combination of a signed binary item and either an alphanumeric item or a national item.

## Explanation

A host variable of variable-length string type is a variable for handling variable-length character strings. A host variable of variable-length string type is a group item that has two subordinate items. The data length is stored in a subordinate signed binary item, and the data content is stored in a subordinate alphanumeric item or a subordinate national item. Therefore, it should be a combination of a signed binary item and the alphanumeric item, or a combination of a signed binary item and a national item.

### JMN2884I-S

**A binary item that is subordinate to a host variable of variable-length string type cannot contain the symbols P and V, and must be 4 or 9 digits.**

#### Example

```
[P2884.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2884.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE PIC X(5).
000008 01 GHVR.
000009     49 GHVRL PIC S9(5) BINARY.
000010     49 GHVRX PIC X(200).
000011     EXEC SQL END DECLARE SECTION END-EXEC.
000012 PROCEDURE DIVISION.
000013     EXEC SQL
```

```

000014      SELECT COL2 INTO :GHVR
000015              FROM T1  WHERE COL1 = 0
000016      END-EXEC
000017 END PROGRAM      P2884.

```

P2884.cob 9: JMN2884I-S A binary item that is subordinate to a host variable of variable-length string type cannot contain the symbols P and V, and must be 4 or 9 digits.

#### Explanation

The length of variable-length string is stored in the binary item subordinate to the host variable of variable-length string type. This data item should be an integer item, and the number of digits should be 4 or 9.

### JMN2885I-S

**An alphanumeric item that is subordinate to a host variable of variable-length string type cannot exceed @1@ bytes in length.**

#### Parameter Explanation

@1@ : 32688.

#### Example

```

[P2885.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2885.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006      EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE     PIC X(5).
000008 01 GHVR.
000009 49 GHVRL       PIC S9(4) BINARY.
000010 49 GHVRX       PIC X(32689).
000011      EXEC SQL END   DECLARE SECTION END-EXEC.
000012 PROCEDURE      DIVISION.
000013      EXEC SQL
000014          SELECT COL2 INTO :GHVR
000015              FROM T1  WHERE COL1 = 0
000016      END-EXEC
000017 END PROGRAM      P2885.

```

P2885.cob 10: JMN2885I-S An alphanumeric item that is subordinate to a host variable of variable-length string type cannot exceed 32688 bytes in length.

#### Explanation

A character-string is stored in the alphanumeric item subordinate to the host variable of variable-length string type. This item should be 32688 bytes or less.

### JMN2886I-S

**The number of characters for a national item that is subordinate to a host variable of variable-length string type cannot exceed @1@ characters.**

#### Parameter Explanation

@1@ : 16344

#### Example

```

[P2886.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2886.

```

```

000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE    PIC X(5).
000008 01 GHVR.
000009 49 GHVRL      PIC S9(4) BINARY.
000010 49 GHVRX      PIC N(16345).
000011     EXEC SQL END  DECLARE SECTION END-EXEC.
000012 PROCEDURE      DIVISION.
000013     EXEC SQL
000014         SELECT COL2 INTO :GHVR
000015             FROM T1  WHERE COL1 = 0
000016     END-EXEC
000017 END PROGRAM      P2886.

```

P2886.cob 10: JMN2886I-S The number of characters for a national item that is subordinate to a host variable of variable-length string type cannot exceed 16344 characters.

### Explanation

A national character-string is stored in the national item subordinate to the host variable of variable-length string type. This item should be 16344 characters or less.

### JMN2888I-W ([Win32])

**The host variable of a binary item must be 4 or 9 digits. It is accepted as written.**

#### Example

```

[P2888.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2888.
000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE    PIC X(5).
000008 01 HVR1       PIC S9(5) BINARY.
000009     EXEC SQL END  DECLARE SECTION END-EXEC.
000010 PROCEDURE      DIVISION.
000011     EXEC SQL
000012         SELECT COL2 INTO :HVR1
000013             FROM T1  WHERE COL1 = 0
000014     END-EXEC
000015 END PROGRAM      P2888.

```

P2888.cob 8: JMN2888I-W The host variable of a binary item must be 4 or 9 digits. It is accepted as written.

### JMN2888I-W ([Win64])

**The host variable of a binary item must be @1@ digits. It is accepted as written.**

#### Parameter Explanation

@1@ : The number of digits that can be specified.

#### Example

```

[P2888.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2888.
000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.

```

```

000006 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE PIC X(5).
000008 01 HVR1 PIC S9(5) BINARY.
000009 EXEC SQL END DECLARE SECTION END-EXEC.
000010 PROCEDURE DIVISION.
000011 EXEC SQL
000012 SELECT COL2 INTO :HVR1
000013 FROM T1 WHERE COL1 = 0
000014 END-EXEC
000015 END PROGRAM P2888.

```

P2888.cob 8: JMN2888I-W The host variable of a binary item must be 4 or 9 digits. It is accepted as written.

## JMN2889I-S

**When the SIGN clause is specified for a host variable that is a signed external decimal item, LEADING SEPARATE or TRAILING must be specified.**

### Example

```

[P2889.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2889.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE PIC X(5).
000008 01 HVR1 PIC S9(5) SIGN TRAILING SEPARATE.
000009 EXEC SQL END DECLARE SECTION END-EXEC.
000010 PROCEDURE DIVISION.
000011 EXEC SQL
000012 SELECT COL2 INTO :HVR1
000013 FROM T1 WHERE COL1 = 0
000014 END-EXEC
000015 END PROGRAM P2889.

```

P2889.cob 8: JMN2889I-S When the SIGN clause is specified for a host variable that is a signed external decimal item, LEADING SEPARATE or TRAILING must be specified.

## JMN2890I-S

**@1@ must be an alphanumeric item of 5 characters.**

### Parameter Explanation

@1@ : SQLSTATE.

### Example

```

[P2890.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2890.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE PIC X(40).
000008 EXEC SQL END DECLARE SECTION END-EXEC.
000009 PROCEDURE DIVISION.
000010 EXEC SQL
000011 SELECT * FROM S1
000012 END-EXEC
000013 END PROGRAM P2890.

```

P2890.cob 7: JMN2890I-S SQLSTATE must be an alphanumeric item of 5 characters.

#### Explanation

The SQLSTATE that stores the exception code generated by the execution of an SQL statement must be declared as a level-number 01 or 77, and it must be a five-digit alphanumeric data item.

#### JMN2892I-W

---

**The SQLCODE must be a signed binary item of 9 digits and cannot contain symbols P or V. It is accepted as written.**

#### Explanation

The SQLCODE that stores the exception code generated by the execution of an SQL statement must be declared as a level-number 01 or 77, and it must be a nine-digit signed binary integer data item.

#### JMN2893I-S

---

**@1@ must be a signed binary item of 9 digits and cannot contain the symbols P or V.**

#### Parameter Explanation

@1@ : SQLCODE or SQLERRD.

#### Example

```
[P2893.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2893.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE PIC X(5).
000008 01 SQLCODE PIC 9(9) BINARY.
000009 01 SQLINFOA.
000010 02 SQLERRD PIC S9(4) BINARY.
000011 01 HVAR1 PIC S9(2)V9(2).
000012 01 HVAR2 PIC X(8).
000013     EXEC SQL END DECLARE SECTION END-EXEC.
000014 PROCEDURE DIVISION.
000015     EXEC SQL
000016         SELECT CL1,CL2 INTO :HVAR1, :HVAR2 FROM TBL
000017     END-EXEC.
000018 END PROGRAM      P2893.
```

P2893.cob 8: JMN2893I-S SQLCODE must be a signed binary item of 9 digits and cannot contain the symbols P or V.

P2893.cob 10: JMN2893I-S SQLERRD must be a signed binary item of 9 digits and cannot contain the symbols P or V.

#### Explanation

SQLCODE and SQLERRD are the areas where the exception code is stored when an exception is generated when the embedded SQL statement is executed is received. SQLCODE and SQLERRD should be a nine-digit binary integer item that does not contain P or V.

#### JMN2895I-S

---

**If a redefined item is a variable-length item, or if a redefining item contains a variable occurrence data item, the offset of this item cannot be determined.**

#### Example

```
[P2895.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2895.
```

```

000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP1.
000007 02 WITM1       PIC X(20).
000008 02 RITM REDEFINES WITM1.
000009 03             PIC X(1) OCCURS 20
000010                DEPENDING ON WSIZE.
000011 02 WITM2       PIC X(20).  *> JMN2895I-S
000012 01 WGRP.
000013 02 WITM1.
000014 03             PIC X(1) OCCURS 20
000015                DEPENDING ON WSIZE.
000016 02 RITM REDEFINES WITM1
000017                PIC X(20).
000018 02 WITM2       PIC X(20).  *> JMN2895I-S
000019 01 WSIZE       PIC S9(4) BINARY.
000020 PROCEDURE      DIVISION.
000021 END PROGRAM    P2895.

```

P2895.cob 11: JMN2895I-S If a redefined item is a variable-length item, or if a redefining item contains a variable occurrence data item, the offset of this item cannot be determined.

P2895.cob 18: JMN2895I-S If a redefined item is a variable-length item, or if a redefining item contains a variable occurrence data item, the offset of this item cannot be determined.

### Explanation

The data item specified in the DEPENDING ON phrase is called a "variable occurrence data item." The area allocated after the variable occurrence data item in a record is called the "variable position in the record." The offset (position allocated in the storage area) of an item on the variable position is fixed at execution time. It is not fixed at compilation time.

### JMN2896I-I

**A sort-merge file can only specify a file-identifier in an ASSIGN clause. It is accepted as written.**

#### Example

```

[P2896.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2896.
000003 ENVIRONMENT    DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SRTFILE ASSIGN TO "D:\TMPFILE" .
000007 I-O-CONTROL.
000008 DATA          DIVISION.
000009 FILE           SECTION.
000010 SD SRTFILE.
000011 01 SRTFREC.
000012 02             PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE      DIVISION.
000015 END PROGRAM      P2896.

```

P2896.cob 10: JMN2896I-I A sort-merge file can only specify a file-identifier in an ASSIGN clause. It is accepted as written.

### JMN2897I-S

**The FORMATTED RECORD clause cannot be specified for a print file with a FORMAT clause.**

#### Example

```

[P2897.cob]
000001 IDENTIFICATION DIVISION.

```

```

000002 PROGRAM-ID.      P2897.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT PRFILE1 ASSIGN TO SYS001
000007     FORMAT        IS WFMT.
000008 I-O-CONTROL.
000009 DATA           DIVISION.
000010 FILE            SECTION.
000011 FD PRFILE1
000012     FORMATTED RECORD IS FMTREC.
000013 01 PRF1REC.
000014  02            PIC X(80).
000015 01 FMTREC      PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 01 WFMT        PIC X(8).
000018 PROCEDURE      DIVISION.
000019 END PROGRAM      P2897.

```

P2897.cob 12: JMN2897I-S The FORMATTED RECORD clause cannot be specified for a print file with a FORMAT clause.

### Explanation

The FORMATED RECORD clause is specific to the OSIV-series.

### JMN2898I-S

**The host variable of a binary, external decimal, or internal decimal item must contain the symbol S.**

### Example

```

[P2898.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2898.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE      PIC X(5).
000008 01 HVR1         PIC 9(9) BINARY.
000009     EXEC SQL END   DECLARE SECTION END-EXEC.
000010 PROCEDURE      DIVISION.
000011     EXEC SQL
000012     SELECT COL2 INTO :HVR1
000013     FROM T1      WHERE COL1 = 0
000014     END-EXEC
000015 END PROGRAM      P2898.

```

P2898.cob 8: JMN2898I-S The host variable of a binary, external decimal, or internal decimal item must contain the symbol S.

### JMN2899I-S

**The @1@ clause cannot be specified for a host variable.**

### Parameter Explanation

@1@ : BLANK WHEN ZERO, JUSTIFIED, REDEFINES, SYNCHRONIZED, or OCCURS

### Example

```

[P2899.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2899.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.

```



```

000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE PIC X(5).
000008 01 HVAR PIC X(10) JUSTIFIED.
000009     EXEC SQL END DECLARE SECTION END-EXEC.
000010 PROCEDURE DIVISION.
000011     EXEC SQL
000012         SELECT COL1 INTO :HVAR
000013     END-EXEC
000014 END PROGRAM P2899.

```

P2899.cob 8: JMN2899I-S The JUSTIFIED clause cannot be specified for a host variable.

### Explanation

When either of the following clauses are specified for the host variable, this diagnostic message is output.

- BLANK WHEN ZERO
- JUSTIFIED
- REDEFINES
- SYNCHRONIZED
- OCCURS

The output of this diagnostic message is different according to the specification of the SQLGRP/NOSQLGRP compiler option.

- SQLGRP(default): Only the host variable referred to in the procedure division is checked.
- NOSQLGRP: All of the host variables defined in the embedded SQL declare section of the data division are checked.

### JMN2901I-W

**'0' cannot be specified after '+' or '-' following an index-name. It is accepted as written.**

#### Example

```

[P2901.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2901.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007 02 WOCC PIC X(1)
000008 OCCURS 10 INDEXED BY IX1.
000009 PROCEDURE DIVISION.
000010 MOVE SPACE TO WOCC(IX1 + 0)
000011 END PROGRAM P2901.

```

P2901.cob 10: JMN2901I-W '0' cannot be specified after '+' or '-' following an index-name. It is accepted as written.

### Explanation

If the operator is "+", the value is obtained by adding the value following operator to the index-name value. If the operator is "-", the value is obtained by subtracting the value following the operator from the index-name value. 0 cannot be specified for a value following the operator.

### JMN2902I-S

**The '@1@' clause cannot be specified for the record description entry of a sort-merge file.**

#### Parameter Explanation

@1@ : CHARACTER TYPE or PRINTING POSITION.

## Example

```
[P2902.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2902.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SRTFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE            SECTION.
000010 SD SRTFILE1.
000011 01 SRTF1REC CHARACTER TYPE MODE-1.
000012 02              PIC N(80).
000013 WORKING-STORAGE SECTION.
000014 01 WFS1         PIC X(2).
000015 PROCEDURE      DIVISION.
000016 END PROGRAM     P2902.
```

P2902.cob 11: JMN2902I-S The 'CHARACTER TYPE' clause cannot be specified for the record description entry of a sort-merge file.

## Explanation

The sort-merge file is created internally by the COBOL runtime system. Although at least one record description entry is written after the sort-merge file description entry (level indicator SD), the input-output statement cannot be executed for the sort-merge file.

The CHARACTER TYPE clause or PRINTING POSITION clause specifies information for the print of the record. These clauses cannot be specified for the record description entry of a sort-merge file.

## JMN2903I-S

---

**'RECORD CONTAINS 0' cannot be specified in a sort-merge file description entry.**

## Example

```
[P2903.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2903.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SRTFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE            SECTION.
000010 SD SRTFILE1
000011     RECORD CONTAINS 0.
000012 01 SRTF1REC.
000013 02              PIC N(80).
000014 WORKING-STORAGE SECTION.
000015 01 WFS1         PIC X(2).
000016 PROCEDURE      DIVISION.
000017 END PROGRAM     P2903.
```

P2903.cob 11: JMN2903I-S 'RECORD CONTAINS 0' cannot be specified in a sort-merge file description entry.

## JMN2906I-S

---

**Data-name '@1@' in the APPLY SAVED-AREA clause cannot be an external data item. The data-name is ignored.**

## Parameter Explanation

@1@ : Data name that causes the error.

## Example

```
[P2906.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2906.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS SEQUENTIAL.
000008 I-O-CONTROL.
000009     APPLY SAVED-AREA WSVAR ON SQFILE1.
000010 DATA           DIVISION.
000011 FILE             SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02              PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WSVAR         PIC X(80) IS EXTERNAL.
000017 PROCEDURE       DIVISION.
000018 END PROGRAM      P2906.
```

P2906.cob 9: JMN2906I-S Data-name 'WSVAR' in the APPLY SAVED-AREA clause cannot be an external data item. The data-name is ignored.

## Explanation

The APPLY SAVED-AREA clause guarantees the value of a data item over several conversations. However, the value of the external data item (the item that specifies EXTERNAL clause or item subordinate to it) is not guaranteed.

## JMN2907I-S

**The SUM clause can only be specified in an external decimal item, alphanumeric item, numeric edited item, alphanumeric edited item, and external floating-point item.**

## Example

```
[P2907.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2907.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1
000011     REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD         PIC 9(2).
000014 01 .
000015 02 WITM        PIC 9(2) OCCURS 10.
000016 REPORT        SECTION.
000017 RD REP1 PAGE 66
000018     CONTROL CTLD.
000019 01 TYPE CF CTLD.
000020 02 WSC1        PIC N(4) SUM WITM(2).
000021 PROCEDURE     DIVISION.
000022 END PROGRAM      P2907.
```

P2907.cob 20: JMN2907I-S The SUM clause can only be specified in an external decimal item, alphanumeric item, numeric edited item, alphanumeric edited item, and external floating-point item.

### Explanation

The SUM clause specifies a sum counter. A sum counter is a numeric data item with an operational sign generated by the compiler.

### JMN2908I-I

**(CONF) The record length is assumed to be the value of the RECORD CONTAINS clause.**

### Example

```
[C2908.cob]
000001 @OPTIONS CONF(74)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C2908.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007     SELECT AFILE ASSIGN DD1.
000008 DATA DIVISION.
000009 FILE SECTION.
000010     FD AFILE
000011         RECORD CONTAINS 80.
000012     01 RECA.
000013     02 ED001 PIC X(40).
000014     01 RECB.
000015     02 ED002 PIC X(40).
000016 WORKING-STORAGE SECTION.
000017 END PROGRAM C2908.
```

C2908.cob 10: JMN2908I-I (CONF) The record length is assumed to be the value of the RECORD CONTAINS clause.

### Explanation

CONF is effective when a program created according to the existing standard is changed to '85 ANSI COBOL. Specify CONF to indicate incompatibility between the old and new COBOL standards; otherwise, specify NOCONF. The compiler options CONF(68) and CONF(74) are effective only if the compiler option LANGLVL(85) is specified.

### JMN2909I-I

**(CONF) A relational operator appears just after the word 'NOT' in the abbreviated combined relation condition. The word 'NOT' assumed to be part of the relational operator.**

### Example

```
[P2909.cob]
000001 @OPTIONS CONF(68)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P2909.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 ED001 PIC 9(4).
000008 01 ED002 PIC 9(4).
000009 01 ED003 PIC 9(4).
000010 01 ED004 PIC 9(4).
000011 PROCEDURE DIVISION.
000012*
000013     IF ED001 > ED002 AND
000014         NOT > ED003 OR ED004
000015         MOVE ED001 TO ED002.
000016 END PROGRAM P2909.
```

P2909.cob 14: JMN2909I-I (CONF) A relational operator appears just after the word 'NOT' in the abbreviated combined relation condition. The word 'NOT' assumed to be part of the relational operator.

### Explanation

CONF is effective when a program created according to the existing standard is changed to '85 ANSI COBOL. Specify CONF to indicate incompatibility between the old and new COBOL standards; otherwise, specify NOCONF. The compiler options CONF(68) and CONF(74) are effective only if the compiler option LANGLVL(85) is specified.

## JMN2911I-S

### A relational operator is not specified or is missing.

#### Example

```
[P2911.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2911.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT IXFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS INDEXED
000008     RECORD KEY    IS WRKY1.
000009 DATA           DIVISION.
000010 FILE            SECTION.
000011 FD IXFILE1.
000012 01 IXF1REC.
000013 02 WRKY1       PIC X(2).
000014 02              PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WDAT        PIC X(2).
000017 PROCEDURE      DIVISION.
000018     START IXFILE1
000019     KEY WRKY1 WDAT
000020 END PROGRAM      P2911.
```

P2911.cob 19: JMN2911I-S A relational operator is not specified or is missing.

### Explanation

One of the following relational operators is specified for the KEY phrase of the START statement.

- IS EQUAL TO (IS =)
- IS GREATER THAN (IS >)
- IS NOT LESS THAN (IS NOT <)
- IS GREATER THAN OR EQUAL TO (IS >=)

## JMN2912I-S

### The @1@ phrase of the START statement can only be specified for an indexed organization file.

#### Parameter Explanation

@1@ : USING

#### Example

```
[P2912.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2912.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
```

```

000005 FILE-CONTROL.
000006     SELECT IXFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     RECORD KEY IS WRKY1.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD IXFILE1.
000012 01 IXF1REC.
000013 02 WRKY1 PIC X(2).
000014 02 PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WDAT PIC X(2).
000017 PROCEDURE DIVISION.
000018     START IXFILE1
000019     USING KEY EQUAL WRKY1
000020 END PROGRAM P2912.

```

P2912.cob 19: JMN2912I-S The USING phrase of the START statement can only be specified for an indexed organization file.

### Explanation

An indexed organization file (file-identifier of ASSIGN clause is 'I-name') is specific to the OSIV series.

### JMN2916I-S

**When a file that is specified as a RELATIVE KEY clause is external, the data item of the RELATIVE KEY clause must be external.**

### Example

```

[P2916.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2916.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT RLFILE1 ASSIGN TO SYS001
000007     ORGANIZATION IS RELATIVE
000008     RELATIVE KEY IS WRKY.
000009 I-O-CONTROL.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD RLFILE1 IS EXTERNAL.
000013 01 RLF1REC.
000014 02 PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WRKY PIC 9(8) BINARY.
000017 PROCEDURE DIVISION.
000018 END PROGRAM P2916.

```

P2916.cob 8: JMN2916I-S When a file that is specified as a RELATIVE KEY clause is external, the data item of the RELATIVE KEY clause must be external.

### Explanation

The external file (the file description entry that specifies the EXTERNAL clause) is allocated one storage area, and several programs in a run unit can refer to it.

Records in the relative file are processed by comparing items specified for the RELATIVE KEY clause (relative key items). If the file has an external attribute, the relative key item associated with the file should have the external attribute (the EXTERNAL clause).

### JMN2920I-S

**A 'CHARACTER TYPE' clause with an OR phrase cannot be specified for an elementary item.**

## Example

```
[P2920.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2920.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 FOR MOCS
000007     PRINTING MODE PM2 FOR SOCS.
000008 DATA           DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WELM        PIC N(10)
000011                CHARACTER TYPE PM1 OR
000012                PM2.
000013 PROCEDURE       DIVISION.
000014 END PROGRAM      P2920.
```

P2920.cob 11: JMN2920I-S A 'CHARACTER TYPE' clause with an OR phrase cannot be specified for an elementary item.

## Explanation

The CHARACTER TYPE clause with the OR phrase can be specified only in group items.

## JMN2921I-S

**Printing-mode-name '@1@' specified in the CHARACTER TYPE clause is undefined or defined multiple times.**

## Parameter Explanation

@1@ : User-defined word that causes the error.

## Example

```
[P2921.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2921.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 FOR MOCS
000007     PRINTING MODE PM1 FOR SOCS.
000008 DATA           DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WELM        PIC N(10)
000011                CHARACTER TYPE PM1.
000012 PROCEDURE       DIVISION.
000013 END PROGRAM      P2921.
```

P2921.cob 11: JMN2921I-S Printing-mode-name 'PM1' specified in the CHARACTER TYPE clause is undefined or defined multiple times.

## Explanation

The printing-mode-name must not be associated with a PRINTING MODE clause in the SPECIAL-NAMES paragraph.

## JMN2922I-S

**A printing-mode-name with a 'FOR ALL' can only be specified for a group, alphabetic, alphanumeric, alphanumeric edited, external decimal, external boolean, external floating point, numeric edited, national, or national edited item.**

## Example

```
[P2922.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2922.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 FOR ALL.
000007 DATA           DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 NONDISP      PIC S9(9) BINARY
000010                 CHARACTER TYPE PM1.
000011 PROCEDURE       DIVISION.
000012 END PROGRAM     P2922.
```

P2922.cob 10: JMN2922I-S A printing-mode-name with a 'FOR ALL' can only be specified for a group, alphabetic, alphanumeric, alphanumeric edited, external decimal, external boolean, external floating point, numeric edited, national, or national edited item.

## JMN2923I-S

**A printing-mode-name with a 'FOR MOCS' can only be specified for a group, national, or national edited item.**

## Example

```
[P2923.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2923.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 FOR MOCS.
000007 DATA           DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 NONDISP      PIC S9(9) BINARY
000010                 CHARACTER TYPE PM1.
000011 PROCEDURE       DIVISION.
000012 END PROGRAM     P2923.
```

P2923.cob 10: JMN2923I-S A printing-mode-name with a 'FOR MOCS' can only be specified for a group, national, or national edited item.

## JMN2924I-S

**A printing-mode-name with 'FOR SOCS' can only be specified for a group, alphabetic, alphanumeric, alphanumeric edited, external decimal, external boolean, external floating point, or numeric edited item.**

## Example

```
[P2924.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2924.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 FOR SOCS.
000007 DATA           DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 WDX           PIC N(10)
000010                 CHARACTER TYPE PM1.
000011 PROCEDURE       DIVISION.
000012 END PROGRAM     P2924.
```



P2924.cob 10: JMN2924I-S A printing-mode-name with 'FOR SOCS' can only be specified for a group, alphabetic, alphanumeric, alphanumeric edited, external decimal, external boolean, external floating point, or numeric edited item.

## JMN2925I-S

**A printing-mode-name with 'FOR ALL' cannot be specified for a CHARACTER TYPE clause with an OR phrase.**

### Example

```
[P2925.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2925.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 FOR MOCS
000007     PRINTING MODE PM2 FOR ALL.
000008 DATA           DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WGRP         CHARACTER TYPE PM1 OR
000011                                     PM2.
000012 02 WDX          PIC X(10).
000013 02 WDN          PIC N(10).
000014 PROCEDURE      DIVISION.
000015 END PROGRAM      P2925.
```

P2925.cob 10: JMN2925I-S A printing-mode-name with 'FOR ALL' cannot be specified for a CHARACTER TYPE clause with an OR phrase.

## JMN2926I-S

**When two or more printing-mode-names are specified, all FOR phrases for the printing-mode-names must be the same.**

### Example

```
[P2926.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2926.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 FOR MOCS
000007     PRINTING MODE PM2 FOR SOCS.
000008 DATA           DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WGRP         CHARACTER TYPE PM1 PM2
000011                                     DEPENDING ON WMODE.
000012 02 WDX          PIC X(10).
000013 02 WDN          PIC N(10).
000014 01 WMODE       PIC S9(4).
000015 PROCEDURE      DIVISION.
000016 END PROGRAM      P2926.
```

P2926.cob 10: JMN2926I-S When two or more printing-mode-names are specified, all FOR phrases for the printing-mode-names must be the same.

### Explanation

If the printing-mode-name is specified two or more times in one CHARACTER TYPE clause, all FOR phrases of the PRINTING MODE clause in the SPECIAL-NAMES paragraph must be same MOCS, SOCS or ALL.

## JMN2927I-S

The FOR phrases for printing-mode-names after an OR phrase must be different from those before the OR phrase.

### Example

```
[P2927.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2927.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 FOR MOCS
000007     PRINTING MODE PM2 FOR MOCS.
000008 DATA           DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WGRP         CHARACTER TYPE PM1 OR
000011                                     PM2.
000012 02 WDX          PIC X(10).
000013 02 WDN          PIC N(10).
000014 01 WMODE        PIC S9(4).
000015 PROCEDURE       DIVISION.
000016 END PROGRAM      P2927.
```

P2927.cob 10: JMN2927I-S The FOR phrases for printing-mode-names after an OR phrase must be different from those before the OR phrase.

### Explanation

If the printing-mode-name is specified two or more times in one CHARACTER TYPE clause, all FOR phrases of the PRINTING MODE clause in the SPECIAL-NAMES paragraph must be same MOCS, SOCS or ALL.

## JMN2928I-S

A 'CHARACTER TYPE' clause with MODE-1, MODE-2, MODE-3, or a mnemonic-name cannot be specified for a record description entry containing an item that is specified for a 'CHARACTER TYPE' clause with a printing-mode-name.

### Example

```
[P2928.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2928.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 FOR MOCS
000007     PRINTING MODE PM2 FOR SOCS.
000008 DATA           DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WGRP         CHARACTER TYPE PM1 OR
000011                                     PM2.
000012 02 WDX          PIC X(10).
000013 02 WDN          PIC N(10)
000014                CHARACTER TYPE MODE-1.
000015 01 WMODE        PIC S9(4).
000016 PROCEDURE       DIVISION.
000017 END PROGRAM      P2928.
```

P2928.cob 10: JMN2928I-S A 'CHARACTER TYPE' clause with MODE-1, MODE-2, MODE-3, or a mnemonic-name cannot be specified for a record description entry containing an item that is specified for a 'CHARACTER TYPE' clause with a printing-mode-name.

## JMN2930I-S ([Win32])

The data-name of the '@2@' phrase in the '@1@' clause must be an integer item defined in the WORKING-STORAGE, FILE, CONSTANT, or LINKAGE SECTION.

### Parameter Explanation

@1@ : CHARACTER TYPE

@2@ : DEPENDING ON

### Example

```
[P2930.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2930.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 FOR MOCS
000007     PRINTING MODE PM2 FOR MOCS.
000008 DATA           DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WGRP          CHARACTER TYPE PM1 PM2
000011                                DEPENDING ON WMODE.
000012 02 WDX           PIC X(10).
000013 02 WDN           PIC N(10).
000014 01 WMODE        PIC X(4).
000015 PROCEDURE       DIVISION.
000016 END PROGRAM      P2930.
```

P2930.cob 11: JMN2930I-S The data-name of the 'DEPENDING ON' phrase in the 'CHARACTER TYPE' clause must be an integer item defined in the WORKING-STORAGE, FILE, CONSTANT, or LINKAGE SECTION.

### Explanation

When the CHARACTER TYPE clause specifies two or more printing-mode-names and the DEPENDING ON phrase, only the printing-mode-name at the position corresponding to the value of the data item specified for the DEPENDING ON phrase is effective. The data item specified for the DEPENDING ON phrase should be an integer item.

## JMN2930I-S ([Winx64])

The data-name of the '@2@' phrase in the '@1@' clause must be an integer item defined in the WORKING-STORAGE, LOCAL-STORAGE, FILE, CONSTANT, or LINKAGE SECTION.

### Parameter Explanation

@1@ : CHARACTER TYPE

@2@ : DEPENDING ON

### Example

```
[P2930.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2930.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 FOR MOCS
000007     PRINTING MODE PM2 FOR MOCS.
000008 DATA           DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WGRP          CHARACTER TYPE PM1 PM2
000011                                DEPENDING ON WMODE.
000012 02 WDX           PIC X(10).
```

```

000013 02 WDN          PIC N(10).
000014 01 WMODE       PIC X(4).
000015 PROCEDURE      DIVISION.
000016 END PROGRAM    P2930.

```

P2930.cob 11: JMN2930I-S The data-name of the 'DEPENDING ON' phrase in the 'CHARACTER TYPE' clause must be an integer item defined in the WORKING-STORAGE, LOCAL-STORAGE, FILE, CONSTANT, or LINKAGE SECTION.

#### Explanation

When the CHARACTER TYPE clause specifies two or more printing-mode-names and the DEPENDING ON phrase, only the printing-mode-name at the position corresponding to the value of the data item specified for the DEPENDING ON phrase is effective. The data item specified for the DEPENDING ON phrase should be an integer item.

### JMN2931I-S

**If a CHARACTER TYPE clause with a DEPENDING ON phrase is specified in a record with an external attribute, then the data-name of the 'DEPENDING ON' phrase must also be an item with an external attribute in the same DATA DIVISION.**

#### Example

```

[P2931.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2931.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 FOR MOCS
000007     PRINTING MODE PM2 FOR MOCS.
000008 DATA           DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WGRP         EXTERNAL
000011     CHARACTER TYPE PM1 PM2
000012     DEPENDING ON WMODE.
000013 02 WDX         PIC X(10).
000014 02 WDN         PIC N(10).
000015 01 WMODE       PIC S9(4).
000016 PROCEDURE      DIVISION.
000017 END PROGRAM      P2931.

```

P2931.cob 12: JMN2931I-S If a CHARACTER TYPE clause with a DEPENDING ON phrase is specified in a record with an external attribute, then the data-name of the 'DEPENDING ON' phrase must also be an item with an external attribute in the same DATA DIVISION.

#### Explanation

The external data record (data description entry for which the EXTERNAL clause is specified or the item subordinate to it) is allocated one storage area, and several programs in a run unit can refer to it.

When the CHARACTER TYPE clause with the DEPENDING ON phrase is specified in the external data record, the printing-mode-name applied to this record is decided depending on the value of the data item specified in the DEPENDING ON phrase. Thus, the data item specified in DEPENDING ON phrase should have the external attribute.

### JMN2932I-S

**If a CHARACTER TYPE clause with a DEPENDING ON phrase is specified in a record with a global attribute, then the data-name of the DEPENDING ON phrase must also be an item with a global attribute in the same DATA DIVISION.**

#### Example

```

[P2932.cob]
000001 IDENTIFICATION DIVISION.

```

```

000002 PROGRAM-ID.      P2932.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 FOR MOCS
000007     PRINTING MODE PM2 FOR MOCS.
000008 DATA           DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WGRP         GLOBAL
000011             CHARACTER TYPE PM1 PM2
000012             DEPENDING ON WMODE.
000013 02 WDX          PIC X(10).
000014 02 WDN          PIC N(10).
000015 01 WMODE       PIC S9(4).
000016 PROCEDURE       DIVISION.
000017 END PROGRAM       P2932.

```

P2932.cob 12: JMN2932I-S If a CHARACTER TYPE clause with a DEPENDING ON phrase is specified in a record with a global attribute, then the data-name of the DEPENDING ON phrase must also be an item with a global attribute in the same DATA DIVISION.

### Explanation

The global data-name (the name of data item that specifies the GLOBAL clause or the item subordinate to it) can be referenced in a program with a defined name and all programs directly or indirectly contained in the defined program.

When the CHARACTER TYPE clause with the DEPENDING ON phrase is specified in the global data, the printing-mode-name applied to this record is decided depending on the value of the data item specified in the DEPENDING ON phrase. Thus, the data item specified in DEPENDING ON phrase should have the global attribute.

## JMN2933I-S

**The data-name in the CURSOR clause must be defined in the WORKING-STORAGE SECTION, it must be 4 or 6 bytes in length, and its usage must be DISPLAY.**

### Example

```

[P2933.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     P2933.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     CURSOR IS CRS1.
000007 DATA           DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 CRS1          PIC 9(8) USAGE BINARY.
000010 PROCEDURE       DIVISION.
000011 END PROGRAM       P2933.

```

P2933.cob 6: JMN2933I-S The data-name in the CURSOR clause must be defined in the WORKING-STORAGE SECTION, it must be 4 or 6 bytes in length, and its usage must be DISPLAY.

### Explanation

The CURSOR clause specifies a data item for passing the cursor position for an ACCEPT statement of the screen handling module.

## JMN2934I-S

**The data-name in the CRT STATUS clause must be defined in the WORKING-STORAGE SECTION, and it must be 3 bytes in length.**

### Example

```

[P2934.cob]
000001 IDENTIFICATION  DIVISION.

```

```

000002 PROGRAM-ID.      P2934.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006             CRT STATUS IS CRTST1.
000007 DATA           DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 CRTST1      PIC X(8).
000010 PROCEDURE       DIVISION.
000011 END PROGRAM     P2934.

```

P2934.cob 6: JMN2934I-S The data-name in the CRT STATUS clause must be defined in the WORKING-STORAGE SECTION, and it must be 3 bytes in length.

### Explanation

The CRT STATUS clause specifies a data item that receives the screen input status of an ACCEPT statement of the screen handling module. A screen input status is a three byte character area used to indicate the result of an execution of an ACCEPT statement.

### JMN2935I-W

**The JUSTIFIED clause cannot be specified in a screen description entry with a FULL clause. The JUSTIFIED clause is ignored.**

### Example

```

[P2935.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     P2935.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 DD            PIC X(2).
000007 SCREEN         SECTION.
000008 01 A            FULL.
000009 02 B          PIC X(8) USING DD
000010             JUSTIFIED.
000011 PROCEDURE       DIVISION.
000012 END PROGRAM     P2935.

```

P2935.cob 10: JMN2935I-W The JUSTIFIED clause cannot be specified in a screen description entry with a FULL clause. The JUSTIFIED clause is ignored.

### Explanation

When inputting data via an ACCEPT statement to a screen item specifying the FULL clause, the cursor is placed in the first character position of the screen item and ACCEPT terminator keystrokes are ignored until the entire screen item is filled. The alignment by the JUSTIFIED clause is not done.

### JMN2936I-W

**The @1@ clause cannot be specified for an item that has a PICTURE clause with a @2@ phrase. The @1@ clause is ignored.**

### Parameter Explanation

@1@ : AUTO, FULL, or REQUIRED

@2@ : FROM

### Explanation

An output item is a screen item which specifies a PICTURE clause with only a FROM phrase. The AUTO, FULL, and REQUIRED clauses cannot be specified in an output item because these clauses specify the input attribute of a screen item.

## JMN2937I-S

**The @1@ clause cannot be specified for an item that has a PICTURE clause with a @2@ phrase.**

### Parameter Explanation

@1@ : PROMPT, SECURE or ZERO-FILL.

@2@ : FROM or USING.

### Example

```
[P2937.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     P2937.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WSOU         PIC X(2).
000007 SCREEN          SECTION.
000008 01 SC1         PIC X(8) USING WSOU SECURE.
000009 PROCEDURE       DIVISION.
000010 END PROGRAM     P2937.
```

P2937.cob 8: JMN2937I-S The SECURE clause cannot be specified for an item that has a PICTURE clause with a USING phrase.

### Explanation

The relationship between the PICTURE (PIC) clause of the elementary screen item (the independent areas on the screen) and the input-output attribute is as follows:

- Only a TO phrase = An input item
- Only a FROM phrase = An output item. An output item is a screen area to display data on the screen.
- USING phrase, or both a FROM phrase and a TO phrase = An update item. An update item is a screen area used to obtain input from and display data upon the screen.

The clause that can be specified is different in the input-output attribute of the screen item.

## JMN2938I-S

**A BELL, BLANK, COLUMN, LINE, PICTURE or VALUE clause must be specified for the elementary item in the SCREEN SECTION.**

### Example

```
[P2938.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     P2938.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WSOU         PIC X(2).
000007 SCREEN          SECTION.
000008 01 SC1         AUTO.
000009 PROCEDURE       DIVISION.
000010 END PROGRAM     P2938.
```

P2938.cob 8: JMN2938I-S A BELL, BLANK, COLUMN, LINE, PICTURE or VALUE clause must be specified for the elementary item in the SCREEN SECTION.

### Explanation

Elementary items in the SCREEN SECTION correspond to various independent areas on the screen. Either the BELL clause, the BLANK LINE clause, the COLUMN NUMBER clause, the LINE NUMBER clause, the PICTURE clause or the VALUE clause must be specified for an elementary item.

## JMN2939I-S

---

**The @1@ clause cannot be specified for the group item in the SCREEN SECTION.**

### Parameter Explanation

@1@ : BELL, BLANK, COLUMN NUMBER, ERASE, LINE NUMBER, SIZE or VALUE.

### Example

```
[P2939.cob]
000001 PROGRAM-ID.      P2939.
000002 ENVIRONMENT     DIVISION.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WSOU          PIC X(2).
000006 SCREEN           SECTION.
000007 01 SC1 VALUE     SPACE.
000008 02 SC1E          PIC X(8) FROM WSOU.
000009 PROCEDURE        DIVISION.
000010 END PROGRAM      P2939.
```

P2939.cob 7: JMN2939I-S The VALUE clause cannot be specified for the group item in the SCREEN SECTION.

### Explanation

A clause is specified for the group item that can be specified only for an elementary item.

## JMN2940I-S

---

**'@2@' which is specified in @1@ must be an identifier or a literal.**

### Parameter Explanation

@1@ : The FROM phrase of the PICTURE clause or the PROMPT clause.

@2@ : Word that causes the error.

### Example

```
[P2940.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2940.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WTBL.
000007 02 TBL-EL OCCURS 10 INDEXED BY IDX.
000008 03 TBL-EL1      PIC 9(1).
000009 03 TBL-EL2      PIC 9(1).
000010 SCREEN SECTION.
000011 01 SC1          PIC 9(2) FROM IDX.
000012 PROCEDURE        DIVISION.
000013 END PROGRAM      P2940.
```

P2940.cob 11: JMN2940I-S 'IDX' which is specified in FROM phrase of the PICTURE clause must be an identifier or a literal.

## JMN2941I-S

---

**'@2@' that is specified in @1@ must be an identifier.**

### Parameter Explanation

@1@ : TO phrase of PICTURE clause, USING phrase of PICTURE clause or CONTROL clause.

@2@ : Word that causes the error.



## Example

```
[P2941.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2941.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 SCREEN          SECTION.
000006 01 SC1         PIC 9 USING "B".
000007 PROCEDURE      DIVISION.
000008 END PROGRAM     P2941.
```

P2941.cob 6: JMN2941I-S "B" that is specified in USING phrase of the PICTURE clause must be an identifier.

## JMN2942I-S

**'@2@' that is specified in @1@ must be an identifier or an integer.**

### Parameter Explanation

@1@ : COLUMN NUMBER clause, LINE NUMBER clause or SIZE clause.

@2@ : Word that causes the error.

## Example

```
[P2942.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2942.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WSOU         PIC X(1).
000007 SCREEN          SECTION.
000008 01 SC1         PIC X(1) FROM WSOU
000009                      LINE NUMBER "1".
000010 PROCEDURE      DIVISION.
000011 END PROGRAM     P2942.
```

P2942.cob 9: JMN2942I-S "1" that is specified in LINE NUMBER clause must be an identifier or an integer.

## JMN2943I-S

**Invalid word '@1@' is found. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.**

### Parameter Explanation

@1@ : Word that causes the error.

## Example

```
[P2943.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2943.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WSOU1         PIC X(1).
000007 01 WSOU2         PIC X(1).
000008 SCREEN SECTION.
000009 01 SC1         PIC X(1) FROM WSOU1 WSOU2.
000010 PROCEDURE DIVISION.
000011 END PROGRAM     P2943.
```

P2943.cob 9: JMN2943I-S Invalid word 'WSOU2' is found. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.

### Explanation

This diagnostic message is output when an error is detected while analyzing the SCREEN SECTION of the DATA DIVISION, or while analyzing the PROCEDURE DIVISION header. Please review the syntax.

### JMN2944I-S

**The right parenthesis of the subscript or reference modification is not specified. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.**

### Example

```
[P2944.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2944.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 TBL.
000007    02 TBL1 OCCURS 10 INDEXED BY IX.
000008        03 T-NO PIC 9(1).
000009 SCREEN          SECTION.
000010 01 SC1         PIC 9(1) FROM T-NO(IX.
000011 PROCEDURE      DIVISION.
000012 END PROGRAM     P2944.
```

P2944.cob 11: JMN2944I-S The right parenthesis of the subscript or reference modification is not specified. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.

### JMN2945I-S

**An integer must be specified after '+' or '-' following the index-name. It is ignored, and the compiler skips to the next valid clause, paragraph, section, or division.**

### Example

```
[P2945.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2945.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 TBL.
000007    02 TBL1 OCCURS 10 INDEXED BY IX.
000008        03 T-NO PIC 9(1).
000009 SCREEN          SECTION.
000010 01 SC1         PIC 9(1) FROM T-NO(IX + 1.2).
000011 PROCEDURE      DIVISION.
000012 END PROGRAM     P2945.
```

P2945.cob 10: JMN2945I-S An integer must be specified after '+' or '-' following the index-name. It is ignored, and the compiler skips to the next valid clause, paragraph, section, or division.

### Explanation

If the operator is "+", the value is obtained by adding the value following operator to the index-name value. If the operator is "-", the value is obtained by subtracting the value following the operator from the index-name value.

### JMN2946I-S

---

**The subscript must be an arithmetic expression, an index-name with optional +integer or -integer, or 'ALL'. It is ignored, and the compiler skips to the next valid clause, paragraph, section, or division.**

**Example**

```
[P2946.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2946.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 TBL.
000007    02 TBL1 OCCURS 10 INDEXED BY IX.
000008    03 T-NO      PIC 9(1).
000009 SCREEN         SECTION.
000010 01 SC1         PIC 9(1) FROM T-NO("1").
000011 PROCEDURE      DIVISION.
000012 END PROGRAM     P2946.
```

P2946.cob 10: JMN2946I-S The subscript must be an arithmetic expression, an index-name with optional +integer or -integer, or 'ALL'. It is ignored, and the compiler skips to the next valid clause, paragraph, section, or division.

**Explanation**

Subscript is the value that represents the table element occurrence number. Subscripting is used when referencing an individual element of a table. A table is a data description entry with the OCCURS clause. Specifying ALL as a subscript passes all of the table elements of the dimension to the function as if they were specified from left to right in the order of occurrence.

**JMN2947I-S**

---

**The name '@1@' is not unique. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.**

**Parameter Explanation**

@1@ : User-defined word which causes error.

**Example**

```
[P2947.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2947.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WSOU1         PIC 9(1).
000007 01 WSOU1         PIC 9(1).
000008 SCREEN           SECTION.
000009 01 SC1           PIC 9(1) FROM WSOU1.
000010 PROCEDURE        DIVISION.
000011 END PROGRAM       P2947.
```

P2947.cob 9: JMN2947I-S The name 'WSOU1' is not unique. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.

**JMN2948I-E**

---

**The character that constructs the file-identifier is invalid, or the file-identifier name exceeds 8 characters. The name of file-identifier is assumed to be valid. If the name exceeds 8 characters, the first 8 characters are assumed to be valid.**

**Example**

```
[P2948.cob]
000001 IDENTIFICATION DIVISION.
```

```

000002 PROGRAM-ID.      P2948.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO DA_SYS001
000007     ORGANIZATION  IS SEQUENTIAL
000008     FILE STATUS   IS WFS1.
000009 I-O-CONTROL.
000010 DATA            DIVISION.
000011 FILE              SECTION.
000012 FD SQFILE1.
000013 01 SQF1REC.
000014 02              PIC X(80).
000015 WORKING-STORAGE SECTION.
000016 01 WFS1          PIC X(2).
000017 PROCEDURE        DIVISION.
000018 END PROGRAM        P2948.

```

P2948.cob 6: JMN2948I-E The character that constructs the file-identifier is invalid, or the file-identifier name exceeds 8 characters. The name of file-identifier is assumed to be valid. If the name exceeds 8 characters, the first 8 characters are assumed to be valid.

### Explanation

A file-identifier-name is a name for identifying a file on storage medium. The file-identifier-name must be associated with a file-name in the ENVIRONMENT DIVISION FILE-CONTROL entry before the file can be used. The file-identifier-name is a character-string of eight characters or less, composed only of alphabetic characters and numeric characters. The first character of the name should be an alphabetic character.

## JMN2949I-S

### The file-identifier is invalid.

#### Example

```

[P2949.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2949.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT AFILE ASSIGN   ファイル名.
000007 DATA            DIVISION.
000008 FILE              SECTION.
000009 FD AFILE.
000010 01 AREC          PIC X(80).
000011 PROCEDURE        DIVISION.
000012 END PROGRAM        P2949.

```

P2949.cob 6: JMN2949I-S The file-identifier is invalid.

### Explanation

A file-identifier-name is a name for identifying a file on storage medium. The file-identifier-name must be associated with a file-name in the ENVIRONMENT DIVISION FILE-CONTROL entry before the file can be used. The file-identifier-name is a character-string of eight characters or less composed only of alphabetic characters and numeric characters. The first character of the name should be an alphabetic character.

## JMN2950I-S ([Win32])

**Identifier '@2@' that is specified in @1@ must be defined in the FILE, WORKING-STORAGE, LINKAGE, BASED-STORAGE or CONSTANT SECTION. Ignored until the next valid clause, paragraph, section or division.**

## Parameter Explanation

@1@ : The FROM phrase of the PICTURE clause, PROMPT clause, CONTROL clause, SIZE clause, LINE NUMBER clause, or COLUMN NUMBER clause.

@2@ : Word that causes the error.

## Example

```
[P2950.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2950.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT RPT-FILE ASSIGN RPTFILE.
000007 I-O-CONTROL.
000008 DATA             DIVISION.
000009 FILE              SECTION.
000010 FD RPT-FILE
000011     REPORT IS RPT-1.
000012 REPORT SECTION.
000013 RD RPT-1
000014     PAGE LIMITS ARE 66 LINES.
000015 01 DE01 TYPE IS DE.
000016 02     LINE PLUS 1.
000017 03     COLUMN     1
000018             PIC X(80) VALUE ALL "-----" .
000019 SCREEN           SECTION.
000020 01 WSC1           PIC X(80) FROM DE01.
000021 PROCEDURE        DIVISION.
000022 END PROGRAM      P2950.
```

P2950.cob 20: JMN2950I-S Identifier 'DE01' that is specified in FROM phrase of the PICTURE clause must be defined in the FILE, WORKING-STORAGE, LINKAGE, BASED-STORAGE or CONSTANT SECTION. Ignored until the next valid clause, paragraph, section or division.

## JMN2950I-S ([Winx64])

**Identifier '@2@' that is specified in @1@ must be defined in the FILE, WORKING-STORAGE, LOCAL-STORAGE, LINKAGE, BASED-STORAGE or CONSTANT SECTION. Ignored until the next valid clause, paragraph, section or division.**

## Parameter Explanation

@1@ : The FROM phrase of the PICTURE clause, PROMPT clause, CONTROL clause, SIZE clause, LINE NUMBER clause, or COLUMN NUMBER clause.

@2@ : Word that causes the error.

## Example

```
[P2950.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2950.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT RPT-FILE ASSIGN RPTFILE.
000007 I-O-CONTROL.
000008 DATA             DIVISION.
000009 FILE              SECTION.
000010 FD RPT-FILE
000011     REPORT IS RPT-1.
000012 REPORT SECTION.
```

```

000013 RD RPT-1
000014     PAGE LIMITS ARE 66 LINES.
000015 01 DE01 TYPE IS DE.
000016     02     LINE PLUS 1.
000017     03     COLUMN     1
000018                               PIC X(80) VALUE ALL "----+----".
000019 SCREEN                               SECTION.
000020 01 WSC1                               PIC X(80) FROM DE01.
000021 PROCEDURE                             DIVISION.
000022 END PROGRAM                           P2950.

```

P2950.cob 20: JMN2950I-S Identifier 'DE01' that is specified in FROM phrase of the PICTURE clause must be defined in the FILE, WORKING-STORAGE, LOCAL-STORAGE, LINKAGE, BASED-STORAGE or CONSTANT SECTION. Ignored until the next valid clause, paragraph, section or division.

### JMN2951I-S ([Win32])

**Identifier '@2@' that is specified in @1@ must be defined in the FILE, WORKING-STORAGE, LINKAGE or BASED-STORAGE SECTION. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.**

#### Parameter Explanation

@1@ : TO phrase of PICTURE clause or USING phrase of PICTURE clause.

@2@ : Word which causes error.

#### Example

```

[P2951.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2951.
000003 ENVIRONMENT      DIVISION.
000004 DATA              DIVISION.
000005 CONSTANT          SECTION.
000006 01 CONST         PIC 9(2) VALUE 12.
000007 SCREEN SECTION.
000008 01 SC1           PIC 9(2) USING CONST.
000009 PROCEDURE       DIVISION.
000010 END PROGRAM       P2951.

```

P2951.cob 8: JMN2951I-S Identifier 'CONST' that is specified in USING phrase of the PICTURE clause must be defined in the FILE, WORKING-STORAGE, LINKAGE or BASED-STORAGE SECTION. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.

### JMN2951I-S ([Winx64])

**Identifier '@2@' that is specified in @1@ must be defined in the FILE, WORKING-STORAGE, LOCAL-STORAGE, LINKAGE or BASED-STORAGE SECTION. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.**

#### Parameter Explanation

@1@ : TO phrase of PICTURE clause or USING phrase of PICTURE clause.

@2@ : Word which causes error.

#### Example

```

[P2951.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2951.
000003 ENVIRONMENT      DIVISION.
000004 DATA              DIVISION.
000005 CONSTANT          SECTION.

```

```

000006 01 CONST          PIC 9(2) VALUE 12.
000007 SCREEN SECTION.
000008 01 SC1            PIC 9(2) USING  CONST.
000009 PROCEDURE        DIVISION.
000010 END PROGRAM      P2951.

```

P2951.cob 8: JMN2951I-S Identifier 'CONST' that is specified in USING phrase of the PICTURE clause must be defined in the FILE, WORKING-STORAGE, LOCAL-STORAGE, LINKAGE or BASED-STORAGE SECTION. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.

## JMN2952I-S

**The right parenthesis corresponding to the left parenthesis is not specified. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.**

### Example

```

[P2952.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2952.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WBUF          PIC X(20).
000007 01 WOFST        PIC 9(2).
000008 SCREEN SECTION.
000009 01 WSC1          PIC X(2) FROM WBUF((WOFST + 1 : 1) TO WBUF.
000010 PROCEDURE DIVISION.
000011 END PROGRAM      P2952.

```

P2952.cob 9: JMN2952I-S The right parenthesis corresponding to the left parenthesis is not specified. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.

## JMN2953I-S

**The '@1@' clause cannot be specified in a line sequential file.**

### Parameter Explanation

@1@ : LINAGE

### Example

```

[P2953.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2953.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001
000007     ORGANIZATION  IS LINE SEQUENTIAL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD SQFILE1
000011     LINAGE 66.
000012 01 SQF1REC.
000013     02          PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 01 WFS1         PIC X(2).
000016 PROCEDURE        DIVISION.
000017 END PROGRAM      P2953.

```

P2953.cob 11: JMN2953I-S The 'LINAGE' clause cannot be specified in a line sequential file.

## Explanation

The LINAGE clause can be specified for only a print file without a FORMAT clause.

### JMN2954I-S ([Win32])

**The data-name of the ASSIGN clause in file-name '@1@' must be an alphanumeric data-item that is less than 256 characters and defined in the WORKING-STORAGE SECTION or LINKAGE SECTION.**

#### Parameter Explanation

@1@ : File name that causes the error.

#### Example

```
[P2954.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2954.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO FILENAME
000007     ORGANIZATION  IS SEQUENTIAL.
000008 DATA            DIVISION.
000009 FILE              SECTION.
000010 FD SQFILE1.
000011 01 SQF1REC.
000012 02                PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 01 FILENAME       PIC N(100).
000015 PROCEDURE        DIVISION.
000016 END PROGRAM      P2954.
```

P2954.cob 10: JMN2954I-S The data-name of the ASSIGN clause in file-name 'SQFILE1' must be an alphanumeric data-item that is less than 256 characters and defined in the WORKING-STORAGE SECTION or LINKAGE SECTION.

## Explanation

The ASSIGN clause specifies the data-name associates a file-name with a physical file name. The data-name must be initialized with the physical file name before an OPEN statement can be executed.

The value representing the physical file name on the storage medium must be set to the data-name specified for the ASSIGN clause before the execution of the OPEN statement.

### JMN2954I-S ([Winx64])

**The data-name of the ASSIGN clause in file-name '@1@' must be an alphanumeric data-item that is less than 256 characters and defined in the WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION or LINKAGE SECTION.**

#### Parameter Explanation

@1@ : File name that causes the error.

#### Example

```
[P2954.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2954.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO FILENAME
000007     ORGANIZATION  IS SEQUENTIAL.
000008 DATA            DIVISION.
000009 FILE              SECTION.
```



```

000010 FD SQFILE1.
000011 01 SQF1REC.
000012 02          PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 01 FILENAME PIC N(100).
000015 PROCEDURE   DIVISION.
000016 END PROGRAM P2954.

```

P2954.cob 10: JMN2954I-S The data-name of the ASSIGN clause in file-name 'SQFILE1' must be an alphanumeric data-item that is less than 256 characters and defined in the WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION or LINKAGE SECTION.

### Explanation

The ASSIGN clause specifies the data-name associates a file-name with a physical file name. The data-name must be initialized with the physical file name before an OPEN statement can be executed.

The value representing the physical file name on the storage medium must be set to the data-name specified for the ASSIGN clause before the execution of the OPEN statement.

## JMN2955I-S

**The format of the reference modifier is invalid. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.**

### Example

```

[P2955.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2955.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WBUF         PIC X(20).
000007 SCREEN         SECTION.
000008 01 SC1         PIC X(10) FROM WBUF("13":10).
000009 PROCEDURE     DIVISION.
000010 END PROGRAM    P2955.

```

P2955.cob 8: JMN2955I-S The format of the reference modifier is invalid. It is ignored, and the compiler skips to the next valid clause, paragraph, section or division.

### Explanation

Reference modification adds a reference modifier to the data-name or function-identifier. A reference modifier is written as follows:

One left parenthesis is written after the data-name or function-name.

The arithmetic expression that shows the high-order-end-character-position is described following the left parenthesis.

The arithmetic expression is followed by a colon(:).

The arithmetic expression that shows length in which the part is referred is described following the colon.

The right parenthesis follows the arithmetic expression.

A separator space can be included immediately before or after the colon. The colon must be included, even though the arithmetic expression that shows length can be omitted.

## JMN2957I-S

**The WITH phrase of the @1@ statement must be C, PASCAL, or STDCALL. The WITH phrase is ignored.**

### Parameter Explanation

@1@ : CALL or ENTRY.

## Example

```
[P2957.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2957.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 PNAME        PIC X(8) VALUE "P2957SUB".
000007 LINKAGE         SECTION.
000008 PROCEDURE       DIVISION.
000009     CALL "TC2CLKCB" WITH COBOL LINKAGE
000010                 USING PANEM.
000011     EXIT PROGRAM.
000012 END PROGRAM     P2957.
```

P2957.cob 9: JMN2957I-S The WITH phrase of the CALL statement must be C, PASCAL, or STDCALL. The WITH phrase is ignored.

## Explanation

The WITH phrase indicates that the object program is called according to the specified calling conventions. If the WITH phrase is omitted, the COBOL calling convention is applied.

## JMN2958I-S

**The WITH phrase of the PROCEDURE DIVISION must be C, PASCAL, or STDCALL. The WITH phrase is ignored.**

## Example

```
[P2958.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2958.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 LINKAGE         SECTION.
000007 01 PARAM1       PIC X(8).
000008 PROCEDURE       DIVISION
000009                 WITH COBOL LINKAGE
000010                 USING PNAME2.
000011 END PROGRAM     P2958.
```

P2958.cob 9: JMN2958I-S The WITH phrase of the PROCEDURE DIVISION must be C, PASCAL, or STDCALL. The WITH phrase is ignored.

## Explanation

The WITH phrase specifies the calling conventions for a called program. If the WITH phrase is omitted, the COBOL calling conventions are applied.

## JMN2959I-S

**The WITH phrase of the ENTRY statement must be the same as the WITH phrase of the PROCEDURE DIVISION. It is accepted as written.**

## Example

```
[P2959.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2959.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 LINKAGE         SECTION.
000006 01 LK1          PIC X(2).
```

```

000007 PROCEDURE      DIVISION
000008                WITH C LINKAGE
000009                USING LK1.
000010      EXIT PROGRAM.
000011*
000012      ENTRY "P2959ENT"
000013                WITH STDCALL.
000014 END PROGRAM      P2959.

```

P2959.cob 13: JMN2959I-S The WITH phrase of the ENTRY statement must be the same as the WITH phrase of the PROCEDURE DIVISION. It is accepted as written.

### Explanation

The calling convention specified in the procedure division header of the outermost program and the calling convention specified in the WITH phrase of the ENTRY statement should be the same in the compilation unit.

## JMN2960I-S

**The AT phrase and the LINE or COLUMN phrase are mutually exclusive in the @1@ statement. The @2@ phrase is ignored.**

### Parameter Explanation

@1@ : ACCEPT or DISPLAY.

@2@ : AT, LINE or COLUMN.

### Example

```

[P2960.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2960.
000003 ENVIRONMENT      DIVISION.
000004 DATA              DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 PNAME          PIC X(8) VALUE "P2960".
000007 PROCEDURE        DIVISION.
000008     DISPLAY PNAME AT 1010
000009                 AT LINE NUMBER 12.
000010     EXIT PROGRAM.
000011 END PROGRAM      P2960.

```

P2960.cob 9: JMN2960I-S The AT phrase and the LINE or COLUMN phrase are mutually exclusive in the DISPLAY statement. The LINE phrase is ignored.

### Explanation

AT specifies the location of the item to be input on the physical screen. There are two formats for which the line and the row are specified respectively by the LINE NUMBER clause and the COLUMN NUMBER clause, and the format specified by the numeric literal of four digits or six digits that show the line and the row. Both formats cannot be written at the same time.

## JMN2961I-S

**@2@ can only be specified once in the WITH phrase of the @1@ statement. The WITH phrase is ignored.**

### Parameter Explanation

@1@ : ACCEPT or DISPLAY.

@2@ : AUTO, BACKGROUND-COLOR, BELL, BLANK, FOREGROUND-COLOR, FULL, GRID, HIGHLIGHT, LEFT-JUSTIFY, LEFTLIGHTN, LOWLIGHT, OVERLINE, PROMPT, REQUIRED, REVERSE-VIDEO, RIGHT-JUSTIFY, SECURE, SIZE, SPACE-FILL, TRAILING-SIGN, UNDERLINE, UPDATE or ZERO-FILL.

## Example

```
[P2961.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2961.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 PSTATE      PIC X(8).
000007 LINKAGE        SECTION.
000008 PROCEDURE      DIVISION.
000009     ACCEPT PSTATE WITH BACKGROUND-COLOR IS 0
000010                               FOREGROUND-COLOR IS 1
000011                               BACKGROUND-COLOR IS 3.
000012 END PROGRAM    P2961.
```

P2961.cob 11: JMN2961I-S BACKGROUND-COLOR can only be specified once in the WITH phrase of the ACCEPT statement. The WITH phrase is ignored.

## JMN2962I-S

**@2@ and @3@ are mutually exclusive in the WITH phrase of the @1@ statement. The WITH phrase is ignored.**

### Parameter Explanation

@1@ : ACCEPT or DISPLAY.

@2@ : LOWLIGHT, HIGHLIGHT, LEFT-JUSTIFY or RIGHT-JUSTIFY.

@3@ : LOWLIGHT, HIGHLIGHT, LEFT-JUSTIFY or RIGHT-JUSTIFY.

## Example

```
[P2962.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2962.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 PSTATE      PIC X(8).
000007 LINKAGE        SECTION.
000008 PROCEDURE      DIVISION.
000009     ACCEPT  PSTATE AT 1010
000010                               WITH AUTO.
000011     DISPLAY PSTATE WITH LOWLIGHT
000012                               HIGHLIGHT.
000013 END PROGRAM    P2962.
```

P2962.cob 12: JMN2962I-S HIGHLIGHT and LOWLIGHT are mutually exclusive in the WITH phrase of the DISPLAY statement. The WITH phrase is ignored.

### Explanation

The following cannot be specified at the same time in the WITH phrase:

- HIGHLIGHT and LOWLIGHT
- LEFT-JUSTIFY and RIGHT-JUSTIFY

## JMN2963I-S

**@2@ cannot be specified in the WITH phrase of the @1@ statement. @2@ is ignored.**

## Parameter Explanation

@1@ : ACCEPT or DISPLAY.

@2@ : BLANK, AUTO, FULL, LEFT-JUSTIFY, PROMPT, REQUIRED, RIGHT-JUSTIFY, SPACE-FILL, TRAILING-SIGN, UPDATE or ZERO-FILL

## Example

```
[P2963.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2963.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 PSTATE       PIC X(8).
000007 LINKAGE         SECTION.
000008 PROCEDURE       DIVISION.
000009     ACCEPT      PSTATE AT 1010
000010                WITH AUTO.
000011     DISPLAY    PSTATE AT 1010
000012                WITH AUTO.
000013     EXIT PROGRAM.
000014 END PROGRAM     P2963.
```

P2963.cob 12: JMN2963I-S AUTO cannot be specified in the WITH phrase of the DISPLAY statement. AUTO is ignored.

## Explanation

- BLANK cannot be specified in the WITH phrase of the ACCEPT statement of the screen handling module.
- The following cannot be specified in the WITH phrase of the DISPLAY statement of the screen handling module:
  - AUTO
  - FULL
  - LEFT-JUSTIFY
  - PROMPT
  - RIGHT-JUSTIFY
  - REQUIRED
  - SECURE
  - SPACE-FILL
  - TRAILING-SIGN
  - UPDATE
  - ZERO-FILL

## JMN2964I-S

---

**@2@ is invalid in the WITH clause of the @1@ statement.**

## Parameter Explanation

@1@ : ACCEPT or DISPLAY.

@2@ : BACKGROUND-COLOR, FOREGROUND-COLOR, BLANK, PROMPT or SIZE.

## Example

```
[P2964.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2964.
```

```

000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 PSTATE      PIC X(8) .
000007 LINKAGE        SECTION.
000008 PROCEDURE      DIVISION.
000009     DISPLAY PSTATE AT 1010
000010                WITH BACKGROUND-COLOR .
000011     EXIT PROGRAM.
000012 END PROGRAM    P2964 .

```

P2964.cob 10: JMN2964I-S BACKGROUND-COLOR is invalid in the WITH clause of the DISPLAY statement.

### Explanation

This diagnostic message is output in the following cases:

- The word following BLANK is neither SCREEN nor LINE.
- The specification of BACKGROUND-COLOR/FOREGROUND-COLOR is not an integer.
- The word following CONTROL is neither an identifier nor a literal.
- The word following PROMPT is neither an identifier nor a literal.
- The word following SIZE is neither an identifier nor an integer.

Please check the syntax.

### JMN2965I-S

**The @2@ phrase must be CRT in the @1@ statement with an AT, LINE, COLUMN, MODE, or WITH phrase.**

#### Parameter Explanation

@1@ : ACCEPT or DISPLAY.

@2@ : FROM or UPON.

#### Example

```

[P2965.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2965 .
000003 ENVIRONMENT    DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 PSTATE      PIC X(8) .
000007 LINKAGE        SECTION.
000008 PROCEDURE      DIVISION.
000009     DISPLAY PSTATE AT 1010
000010                UPON CONSOLE .
000011 END PROGRAM    P2965 .

```

P2965.cob 10: JMN2965I-S The UPON phrase must be CRT in the DISPLAY statement with an AT, LINE, COLUMN, MODE, or WITH phrase.

### JMN2966I-S

**The data item in the SCREEN SECTION must be referenced as a data name.**

#### Example

```

[P2966.cob]
000001 PROGRAM-ID.     P2966 .
000002 ENVIRONMENT    DIVISION.
000003 DATA          DIVISION.

```

```

000004 WORKING-STORAGE SECTION.
000005 01 WD1          PIC X(2) VALUE "AA" .
000006 SCREEN          SECTION.
000007 01 HYO.
000008 02 HYO1        OCCURS 10 TIMES.
000009 03             PIC X(30) USING WD1.
000010 PROCEDURE DIVISION.
000011     DISPLAY HYO1.
000012 END PROGRAM    P2966.

```

P2966.cob 11: JMN2966I-S The data item in the SCREEN SECTION must be referenced as a data name.

### Explanation

This diagnostic message is output when the screen data description entry corresponding to the data-name referred to in the ACCEPT statement or the DISPLAY statement is an item with an OCCURS clause or subordinate to an item with an OCCURS clause.

### JMN2967I-S

**SQLSTATE or SQLCODE can define only a level 01 item or level 77 item, or the item subordinate to a level 01 SQLCA.**

### Example

```

[P2967.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2967.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLCA.
000008 02 SQLSTATE PIC X(5).
000009 01 SQLSTATE PIC X(5).
000010     EXEC SQL END DECLARE SECTION END-EXEC.
000011 PROCEDURE DIVISION.
000012     EXEC SQL
000013     SELECT * FROM s1.t1
000014     END-EXEC.
000015 END PROGRAM P2967.

```

P2967.cob 13: JMN2967I-S SQLSTATE or SQLCODE can define only a level 01 item or level 77 item, or the item subordinate to a level 01 SQLCA.

### Explanation

SQLSTATE must be defined as a 5-digit alphanumeric item. It must be declared as either a level 01 or level 77 item, or as a data item that is subordinate to a level 01 SQLCA data item.

SQLCODE must be defined as a 9-digit signed binary integer item. It must be declared as either a level 01 or level 77 item, or as a data item subordinate to a level 01 SQLCA data item.

### JMN2968I-S

**Only one of the following can be defined: either an SQLERRD subordinate to an SQLINFOA, or an SQLERRD subordinate to an SQLCA.**

### Example

```

[P2968.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2968.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.

```

```

000006 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLSTATE PIC X(5).
000008 01 SQLCA.
000009 02 SQLERRD PIC S9(9) BINARY OCCURS 6 TIMES.
000010 01 SQLINFOA.
000011 02 SQLERRD PIC S9(9) BINARY OCCURS 6 TIMES.
000012 77 HVAR3 PIC S9(9) BINARY.
000013 EXEC SQL END DECLARE SECTION END-EXEC.
000014 PROCEDURE DIVISION.
000015 EXEC SQL
000016 SELECT CL1 INTO :HVAR3 FROM TBL
000017 END-EXEC.
000018 END PROGRAM P2968.

```

P2968.cob 16: JMN2968I-S Only one of the following can be defined: either an SQLERRD subordinate to an SQLINFOA, or an SQLERRD subordinate to an SQLCA.

### Explanation

SQLERRD is the area used to store a return value of a stored procedure (SQLERRD(1)), or the number of processed rows when multiple rows are processed (SQLERRD(3)).

## JMN2969I-S

**'@1@' must be an item that does not specify the OCCURS clause immediately subordinate to a level 01 SQLCA.**

### Parameter Explanation

@1@ : SQLSTATE, SQLCODE.

### Example

```

[P2969.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2969.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000007 01 SQLCA.
000008 02 W1.
000009 03 SQLSTATE PIC X(5).
000010 77 HVAR3 PIC S9(9) BINARY.
000011 EXEC SQL END DECLARE SECTION END-EXEC.
000011 PROCEDURE DIVISION.
000012 EXEC SQL
000013 SELECT CL1 INTO :HVAR3 FROM TBL
000014 END-EXEC.
000015 END PROGRAM P2969.

```

P2969.cob 9: JMN2969I-S 'SQLSTATE' must be an item that does not specify the OCCURS clause immediately subordinate to a level 01 SQLCA.

### Explanation

If an exception event occurs during the execution of an SQL statement, information indicating the nature of the event is posted to the application program. This information is stored in SQLSTATE or SQLCODE. These should be defined as a level 01 or level 77 item, or a level 02 to level 49 item that is immediately subordinate to a level 01 SQLCA.

## JMN2970I-S

**'@1@' cannot be used by a PROGRAM DEFINITION that contains the RECURSIVE attribute.**



## Parameter Explanation

@1@ : ACCEPT statement and DISPLAY statement for screen handling

### Example

```
[P2970.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2970 IS RECURSIVE PROGRAM.
000003 DATA DIVISION.
000004 BASED-STORAGE SECTION.
000005 WORKING-STORAGE SECTION.
000006 01 REC-1.
000007 02 KEY-REC PIC XX.
000008 02 FILLER PIC X(78).
000009 01 PT POINTER.
000010 PROCEDURE DIVISION.
000011 ACCEPT REC-1 FROM CRT.
000012 END PROGRAM P2970.
```

C2970.cob 11: JMN2970I-S 'ACCEPT statement and DISPLAY statement for screen handling' cannot be used by a PROGRAM DEFINITION that contains the RECURSIVE attribute.

## JMN2971I-S

**COBOL words are limited to 30 characters each. The first 30 characters are used as the COBOL word.**

### Example

```
[P2971.cob]
000001 @OPTIONS ARITHMETIC(31)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P2971.
000004 PROCEDURE DIVISION.
000005 GO TO 1234567890123456789012345678901.
000006 123456789012345678901234567890.
000007 END PROGRAM P2971.
```

P2971.cob 5: JMN2971I-S COBOL words are limited to 30 characters each. The first 30 characters are used as the COBOL word.

## JMN2985I-S

**A 'FROM', 'TO', or 'USING' phrase must be specified in the PICTURE clause of the screen description entry.**

### Example

```
[P2985.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2985.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 SCREEN SECTION.
000007 01 SC1 PIC X(2).
000008 PROCEDURE DIVISION.
000009 END PROGRAM P2985.
```

P2985.cob 7: JMN2985I-S A 'FROM', 'TO', or 'USING' phrase must be specified in the PICTURE clause of the screen description entry.

### Explanation

The PICTURE(PIC) clause in the screen data description entry (the data description entry declared in the SCREEN SECTION) must specify either of TO, FROM, or USING as follows:

- TO phrase only = Declaration of input item. (An input item is a screen area used to accept data from the screen.)
- FROM phrase only = Declaration of output item. (An output item is a screen area used to display data on the screen.)
- USING phrase, or both of FROM phrase and TO phrase = Declaration of update item. (An update item is a screen area used to obtain input from and display data upon the screen.)

## JMN2986I-S

**The @1@ clause cannot be specified for the numeric item or numeric edited item in the SCREEN SECTION.**

### Parameter Explanation

@1@ : SIZE

### Example

```
[P2986.cob]
000001 PROGRAM-ID.      P2986.
000002 ENVIRONMENT     DIVISION.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.
000005 SCREEN          SECTION.
000006 01 SC1         PIC S9(4) SIZE IS 12.
000007 PROCEDURE       DIVISION.
000008 END PROGRAM      P2986.
```

P2986.cob 6: JMN2986I-S The SIZE clause cannot be specified for the numeric item or numeric edited item in the SCREEN SECTION.

## JMN2988I-S

**The data-name in the FORMAT clause specified for the presentation file of destination XAP or PRT must be 30 bytes or less in length.**

### Example

```
[P2988.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2988.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT PRFILE1 ASSIGN TO GS-S
000007
000008     SYMBOLIC DESTINATION IS "XAP"
000009     FORMAT           IS WFMT
000010     GROUP           IS WGRP
000011     FILE STATUS    IS WFS1.
000012 I-O-CONTROL.
000013 DATA             DIVISION.
000014 FILE              SECTION.
000015 FD PRFILE1.
000016 01 PRF1REC.
000017 02              PIC X(80).
000018 WORKING-STORAGE SECTION.
000019 01 WFS1           PIC X(2).
000020 01 WFMT          PIC X(31).
000021 01 WGRP         PIC X(8).
000022 PROCEDURE       DIVISION.
000023 END PROGRAM      P2988.
```

P2988.cob 9: JMN2988I-S The data-name in the FORMAT clause specified for the presentation file of destination XAP or PRT must be 30 bytes or less in length.

## JMN2993I-S

**STRING statement or UNSTRING statement with CSV-FORMAT/TSV-FORMAT cannot be used when the DECIMAL-POINT IS COMMA clause is specified in the SPECIAL-NAMES paragraph.**

### Example

```
[P2993.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2993.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     DECIMAL-POINT IS COMMA.
000007 DATA           DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 WDATA01      PIC X(5).
000010 01 WDATA02      PIC X(5).
000011 01 WDATA03      PIC X(10).
000012 01 WDATA04      PIC 99,99.
000013 PROCEDURE      DIVISION.
000014     STRING WDATA01 WDATA02 INTO WDATA03
000015     BY CSV-FORMAT.
000016 END PROGRAM     P2993.
```

P2993.cob 14: JMN2993I-S STRING statement or UNSTRING statement with CSV-FORMAT/TSV-FORMAT cannot be used when the DECIMAL-POINT IS COMMA clause is specified in the SPECIAL-NAMES paragraph.

### Explanation

Do not use 'DECIMAL-POINT IS COMMA'.

## JMN2994I-S

**Figurative constants other than SPACE cannot be specified in a STRING statement with CSV-FORMAT or TSV-FORMAT.**

### Example

```
[P2994.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P2994.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDATA01      PIC X(4).
000007 01 WDATA02      PIC X(8).
000008 PROCEDURE      DIVISION.
000009     STRING WDATA01 ZERO INTO WDATA02
000010     BY CSV-FORMAT.
000011 END PROGRAM     P2994.
```

P2994.cob 9: JMN2994I-S Figurative constants other than SPACE cannot be specified in a STRING statement with CSV-FORMAT or TSV-FORMAT.

### Explanation

The following figurative constants cannot be specified:

- ZERO
- HIGH-VALUE
- LOW-VALUE

- QUOTE
- ALL literal
- symbolic-character

## JMN2996I-S

**The length of the national item or national edited item defined in Encoding as UTF32 must be less than 536870911 characters. It is taken as 536870911 characters.**

### Explanation

```
[p2996.cob]
000001 @OPTIONS ENCODE(UTF8,UTF32)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P2996.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.}
000007 01 N1 PIC N(536870912).
000008 PROCEDURE DIVISION.
000009 END PROGRAM P2996.
```

C2996.cob 7: JMN2996I-S The length of the national item or national edited item defined in Encoding as UTF32 must be less than 536870911 characters. It is taken as 536870911 characters.

## JMN2999I-S

**Invalid characters are specified in @1@. This statement is ignored.**

### Parameter Explanation

@1@ : Program-name, entry-name or method-name

### Explanation

Only the character expressible by Shift JIS code can be used in the program-name, secondary entry-name or method-name.

## 2.2.4 JMN3000 - JMN3999

3000	3001	3002	3003	3004	3005	3006	3007	3008	3009
3010	3011	3012	3013	3014	3015	3016	3017	3018	3021
3022	3023	3024	3025	3028	3029	3030	3034	3036	3037
3038	3039	3040	3041	3043	3046	3048	3049	3050	3051
3053	3054	3056	3057	3060	3061	3062	3063	3064	3065
3066	3067	3068	3069	3070	3071	3072	3073	3074	3075
3076	3077	3078	3079	3080	3081	3083	3084	3085	3086
3087	3088	3090	3091	3092	3095	3097	3098	3105	3107
3108	3109	3110	3111	3116	3117	3119	3121	3123	3124
3127	3128	3130	3132	3135	3136	3141	3142	3143	3144
3145	3146	3147	3148	3149	3150	3151	3152	3153	3154
3157	3158	3159	3160	3161	3162	3163	3164	3165	3166
3169	3170	3175	3181	3182	3184	3188	3189	3190	3191
3192	3193	3194	3195	3196	3198	3199	3200	3202	3203
3207	3218	3219	3222	3223	3226	3229	3231	3236	3238
3240	3241	3242	3243	3244	3245	3246	3248	3249	3250

3259	3262	3264	3265	3266	3268	3269	3270	3271	3272
3273	3275	3276	3277	3278	3280	3281	3286	3287	3291
3298	3301	3304	3307	3309	3326	3327	3328	3330	3331
3332	3333	3334	3335	3337	3338	3339	3340	3342	3343
3344	3345	3346	3347	3348	3349	3351	3352	3353	3354
3355	3358	3359	3361	3362	3363	3364	3366	3367	3368
3369	3371	3372	3373	3374	3375	3376	3377	3378	3379
3380	3381	3382	3383	3384	3385	3386	3388	3390	3391
3392	3393	3394	3395	3396	3397	3398	3399	3400	3401
3402	3403	3404	3407	3408	3410	3412	3413	3414	3415
3421	3422	3423	3424	3427	3428	3429	3430	3432	3433
3434	3435	3436	3437	3438	3439	3440	3441	3442	3443
3444	3445	3446	3447	3448	3449	3450	3451	3453	3454
3455	3456	3457	3458	3459	3460	3461	3462	3463	3464
3465	3466	3467	3468	3469	3470	3471	3472	3473	3476
3482	3483	3484	3485	3504	3508	3524	3525	3526	3533
3534	3535	3536	3551	3552	3553	3554	3555	3557	3558
3559	3562	3563	3564	3565	3566	3567	3568	3569	3570

### JMN3000I-S

**The value of the subscript of @2@th dimension for @1@ must be positive. 1 is used for the subscript value.**

#### Parameter Explanation

- @1@ : Data item associated with the subscript.
- @2@ : Number of dimensions of subscripts that are 0 or less.

#### Example

```
[C3000.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3000.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 GR01.
000006     02 TBL01 OCCURS 10 TIMES.
000007     03 TBL02 OCCURS 10 TIMES.
000008     04 AN01 PIC X.
000009 PROCEDURE DIVISION.
000010     MOVE SPACE TO AN01(1, 0).
```

C3000.cob 10: JMN3000I-S The value of the subscript of 2th dimension for 'AN01' must be positive. 1 is used for the subscript value.

### JMN3001I-S

**The value of the subscript of the @2@th dimension for @1@ must not exceed @3@. 1 is used for the subscript value.**

#### Parameter Explanation

- @1@ : Data item on which subscript is put.
- @2@ : Number of dimensions for which wrong subscript is specified.

@3@ : Range of value of correct subscript.

### Example

```
[C3001.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3001.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 GR01.
000006 02 TBL01 OCCURS 10 TIMES.
000007 03 TBL02 OCCURS 10 TIMES.
000008 04 AN01 PIC X.
000009 PROCEDURE DIVISION.
000010 MOVE SPACE TO AN01(1, 11).
```

C3001.cob 10: JMN3001I-S The value of the subscript of the 2th dimension for 'AN01' must not exceed 10. 1 is used for the subscript value.

### JMN3002I-S

---

**The number of subscripts for @1@ must be @2@. Extra high-order-end subscripts are ignored.**

#### Parameter Explanation

@1@ : Data item on which subscript is put.

@2@ : Number of correct subscripts.

### Example

```
[C3002.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3002.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 GR01.
000006 02 TBL01 OCCURS 10 TIMES.
000007 03 TBL02 OCCURS 10 TIMES.
000008 04 AN01 PIC X.
000009 PROCEDURE DIVISION.
000010 MOVE SPACE TO AN01(1, 2, 3).
```

C3002.cob 10: JMN3002I-S The number of subscripts for 'AN01' must be 2. Extra high-order-end subscripts are ignored.

### JMN3003I-S

---

**The number of subscripts for @1@ must be @2@. The value of each higher dimension subscript is replaced with 1.**

#### Parameter Explanation

@1@ : Data item associated with the subscript.

@2@ : Number of correct subscripts.

### Example

```
[C3003.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3003.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 GR01.
000006 02 TBL01 OCCURS 10 TIMES.
000007 03 TBL02 OCCURS 10 TIMES.
```

```

000008      04  AN01 PIC X.
000009 PROCEDURE DIVISION.
000010      MOVE SPACE TO AN01(2).

```

C3003.cob 10: JMN3003I-S The number of subscripts for 'AN01' must be 2. The value of each higher dimension subscript is replaced with 1.

### JMN3004I-W

**Index-name @3@ of the @2@th dimension for @1@ must be specified using the INDEXED BY phrase of that table. It is assumed that the index-name is an index for that table.**

#### Parameter Explanation

- @1@ : Data item on which subscript is put.
- @2@ : Number of dimensions which does wrong subscript putting.
- @3@ : Wrong index name.

#### Example

```

[C3004.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3004.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 GR01.
000006 02 TBL01 OCCURS 10 TIMES INDEXED BY IX01.
000007 03 TBL02 OCCURS 10 TIMES.
000008 04 AN01 PIC X.
000009 PROCEDURE DIVISION.
000010 MOVE SPACE TO AN01(1, IX01).
000011 END PROGRAM C3004.

```

C3004.cob 10: JMN3004I-W Index-name 'IX01' of the 2th dimension for 'AN01' must be specified using the INDEXED BY phrase of that table. It is assumed that the index-name is an index for that table.

### JMN3005I-S

**The usage of the reference modified data item @1@ must be 'DISPLAY'. Usage 'DISPLAY' is assumed.**

#### Parameter Explanation

- @1@ : Reference modified data item.

#### Example

```

[C3005.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3005.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 SBITEM PIC S9(9) BINARY.
000006 PROCEDURE DIVISION.
000007 MOVE ZERO TO SBITEM(1:2).
000008 END PROGRAM C3005.

```

C3005.cob 7: JMN3005I-S The usage of the reference modified data item 'SBITEM' must be 'DISPLAY'. Usage 'DISPLAY' is assumed.

### JMN3006I-S

**The length of the reference modifier for @1@ must be greater than zero. A length of 1 is assumed.**

## Parameter Explanation

@1@ : Reference modified data item.

## Example

```
[C3006.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3006.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 SBITEM PIC X(10).
000006 PROCEDURE DIVISION.
000007     MOVE ZERO TO SBITEM(1:0).
000008 END PROGRAM C3006.
```

C3006.cob 7: JMN3006I-S The length of the reference modifier for 'SBITEM' must be greater than zero. A length of 1 is assumed.

## JMN3007I-S

---

**The leftmost-character-position of the reference modifier for @1@ must be greater than zero. The leftmost-character-position is assumed to be 1.**

## Parameter Explanation

@1@ : Reference modified data item.

## Example

```
[C3007.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3007.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 SBITEM PIC X(10).
000006 PROCEDURE DIVISION.
000007     MOVE ZERO TO SBITEM(0:1).
000008 END PROGRAM C3007.
```

C3007.cob 7: JMN3007I-S The leftmost-character-position of the reference modifier for 'SBITEM' must be greater than zero. The leftmost-character-position is assumed to be 1.

## JMN3008I-S

---

**The length of the reference modifier for @1@ cannot exceed @2@. A length of 1 is assumed.**

## Parameter Explanation

@1@ : Reference modified data item.

@2@ : Range of correct length.

## Example

```
[C3008.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3008.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 SBITEM PIC X(10).
000006 PROCEDURE DIVISION.
000007     MOVE ZERO TO SBITEM(1:11).
000008 END PROGRAM C3008.
```

C3008.cob 7: JMN3008I-S The length of the reference modifier for 'SBITEM' cannot exceed 10. A length of 1 is assumed.



## JMN3009I-S

**The leftmost-character-position of the reference modifier for @1@ cannot exceed @2@. The leftmost-character-position is assumed to be 1.**

### Parameter Explanation

@1@ : Reference modified data item.

@2@ : Range at correct Leftmost-character-position.

### Example

```
[C3009.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3009.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 SBITEM PIC X(10).
000006 PROCEDURE DIVISION.
000007     MOVE ZERO TO SBITEM(11:1).
000008 END PROGRAM C3009.
```

C3009.cob 7: JMN3009I-S The leftmost-character-position of the reference modifier for 'SBITEM' cannot exceed 10. The leftmost-character-position is assumed to be 1.

## JMN3010I-S

**The sum of the leftmost-character-position and the length of the reference modifier for @1@ cannot exceed @2@. The leftmost-character-position and the length are both assumed to be 1.**

### Parameter Explanation

@1@ : Reference modified data item.

@2@ : Range of value by which one is subtracted in total of correct leftmost-character-position and length.

### Example

```
[C3010.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3010.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 SBITEM PIC X(10).
000006 PROCEDURE DIVISION.
000007     MOVE ZERO TO SBITEM(6:6).
000008 END PROGRAM C3010.
```

C3010.cob 7: JMN3010I-S The sum of the leftmost-character-position and the length of the reference modifier for 'SBITEM' cannot exceed 10. The leftmost-character-position and the length are both assumed to be 1.

## JMN3011I-S

**The value of the divisor is zero, where zero is a numeric literal with a value of 0, a figurative constant 'ZERO', or the result of an operation with no significant digits. A value consisting of all 9's is moved to the receiving item, with the number of digits being determined from the PICTURE clause of the receiving item. When the receiving item is an arithmetic expression, the number of digits is 30.**

### Example

```
[C3011.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3011.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
```

```

000005 01 ED01 PIC S9(9).
000006 01 ED02 PIC S9(9).
000007 PROCEDURE DIVISION.
000008     COMPUTE ED01 = ED02 / 0.
000009 END PROGRAM C3011.

```

C3011.cob 8: JMN3011I-S The value of the divisor is zero, where zero is a numeric literal with a value of 0, a figurative constant 'ZERO', or the result of an operation with no significant digits. A value consisting of all 9's is moved to the receiving item, with the number of digits being determined from the PICTURE clause of the receiving item. When the receiving item is an arithmetic expression, the number of digits is 30.

## JMN3012I-W

**There are no significant digits in the intermediate result of the operation. The result is assumed to be zero.**

### Example

```

[C3012.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3012.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 ED01 PIC S9(18).
000006 01 ED02 PIC S9P(15).
000007 01 ED03 PIC S9P(15).
000008 PROCEDURE DIVISION.
000009     COMPUTE ED01 = ED02 * ED03.

```

C3012.cob 9: JMN3012I-W There are no significant digits in the intermediate result of operation. The result is assumed to be zero.

### Explanation

In cases like that shown above the compiler can determine that the result will not fit in the available intermediate storage. Intermediate results are limited to 30 digits. Although there are only two significant digits in the calculation  $ED02 * ED03$ , the answer still has to be converted to a fixed-point number with the scaling applied before being moved to the result. The scaling would result in the significant digits being shifted 30 positions to the left - so they would be shifted out of the space allocated for the intermediate result, making the intermediate result zero.

Rather than generate code that performs the multiplication, followed by the scaling, that is clearly going to give the answer zero, the compiler generates code that assumes the answer is zero and issues the warning message so you can check if you intended that the answer always be zero.

## JMN3013I-W

**Computing the zero power of zero occurred, where zero is a numeric literal with value 0, figurative constant 'ZERO', or a result of an operation with no significant digits. The result is assumed to be zero.**

### Example

```

[C3013.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3013.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 ED01 PIC S9(18).
000006 PROCEDURE DIVISION.
000007     COMPUTE ED01 = 0 ** 0.
000008 END PROGRAM C3013.

```

C3013.cob 7: JMN3013I-W Computing the zero power of zero occurred, where zero is a numeric literal with value 0, figurative constant 'ZERO', or a result of an operation with no significant digits. The result is assumed to be zero.

## JMN3014I-I

**(CONF) During a move between a nonnumeric operand and a numeric operand, the numeric operand has 'P' to left of the decimal point. The numeric operand was moved, assuming zero at the position of 'P'.**

### Example

```
[C3014.cob]
000001 @OPTIONS CONF(68)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3014.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 ED01 PIC 9P.
000007 01 AN01 PIC X.
000008 PROCEDURE DIVISION.
000009     MOVE ED01 TO AN01.
000010 END PROGRAM C3014.
```

C3014.cob 9: JMN3014I-I (CONF) During a move between a nonnumeric operand and a numeric operand, the numeric operand has 'P' to left of the decimal point. The numeric operand was moved, assuming zero at the position of 'P'.

## JMN3015I-I

**(CONF) A Boolean item or Boolean literal is moved to an alphanumeric item. An elementary move between two alphanumeric items is assumed.**

### Example

```
[C3015.cob]
000001 @OPTIONS CONF(V52)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3015.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 EB01 PIC 1.
000007 01 AN01 PIC X.
000008 PROCEDURE DIVISION.
000009     MOVE EB01 TO AN01.
000010 END PROGRAM C3015.
```

C3015.cob 9: JMN3015I-I (CONF) A Boolean item or Boolean literal is moved to an alphanumeric item. An elementary move between two alphanumeric items is assumed.

## JMN3016I-I

**(CONF) The ALL literal is moved to a numeric item or numeric edited item. The literal is repeated, character by character, until its size is equal to the size of the receiving operand.**

### Example

```
[C3016.cob]
000001 @OPTIONS CONF(68)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3016.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 ED01 PIC 9(5).
000007 PROCEDURE DIVISION.
000008     MOVE ALL "123" TO ED01.
000009 END PROGRAM C3016.
```

C3016.cob 8: JMN3016I-I (CONF) The ALL literal is moved to a numeric item or numeric edited item. The literal is repeated, character by character, until its size is equal to the size of the receiving operand.

## JMN3017I-I

**(CONF) The group item including the item with the OCCURS DEPENDING ON clause and its object item is specified in the receiving operand. The maximum length of the receiving item is assumed.**

### Example

```
[C3017.cob]
000001 @OPTIONS CONF(74)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3017.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GR01.
000007     02 ODO01 PIC 9(4) BINARY VALUE 3.
000008     02 TBL01 PIC X(10) OCCURS 10 DEPENDING ON ODO01.
000009 PROCEDURE DIVISION.
000010     MOVE SPACE TO GR01.
000011 END PROGRAM C3017.
```

C3017.cob 10: JMN3017I-I (CONF) The group item including the item with the OCCURS DEPENDING ON clause and its object item is specified in the receiving operand. The maximum length of the receiving item is assumed.

## JMN3018I-S

**A nonnumeric literal moved to a numeric item can consist only of numeric characters.**

### Example

```
[C3018.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3018.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 ED01 PIC 9(5).
000006 PROCEDURE DIVISION.
000007     MOVE "1234E" TO ED01.
000008 END PROGRAM C3018.
```

C3018.cob 7: JMN3018I-S A nonnumeric literal moved to a numeric item can consist only of numeric characters.

## JMN3021I-S

**The value of the numeric literal that is moved to the binary item cannot exceed the maximum value that can be held in the receiving item.**

### Example

```
[C3021.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3021.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 BI01 PIC S9(4) COMPUTATIONAL.
000006 PROCEDURE DIVISION.
000007     MOVE +54321 TO BI01.
000008 END PROGRAM C3021.
```

C3021.cob 7: JMN3021I-S The value of the numeric literal that is moved to the binary item cannot exceed the maximum value that can be held in the receiving item.

## Explanation

This message is given when you compile the program with NOTRUNC and attempt to move a numeric literal that is outside the range of binary values that can be stored in the target item. In the example above BI01 is stored in 2 bytes, so can store values in the range -32767 to +32767; +54321 is outside this range so cannot be stored in BI01.

The message is not given if you compile with TRUNC (though you will receive a warning message) because you have specified that such moves should truncate the digits to fit the target item. In the above example, BI01 would contain +4321 after the move when the program is compiled with TRUNC.

## JMN3022I-W

---

**Non-integer item @1@ cannot be moved to alphanumeric item @2@. After moving the sending operand to an unsigned external decimal item with the same digits as the sending operand, the alphanumeric item redefining that external decimal item is moved to the receiving alphanumeric item.**

### Parameter Explanation

@1@ : Data item on sending side.

@2@ : Data item on receiving side.

### Example

```
[C3022.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3022.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 ID01 PIC 9V9 PACKED-DECIMAL.
000006 01 AN01 PIC X(4).
000007 PROCEDURE DIVISION.
000008     MOVE ID01 TO AN01.
000009 END PROGRAM C3022.
```

C3022.cob 8: JMN3022I-W Non-integer item 'ID01' cannot be moved to alphanumeric item 'AN01'. After moving the sending operand to an unsigned external decimal item with the same digits as the sending operand, the alphanumeric item redefining that external decimal item is moved to the receiving alphanumeric item.

## JMN3023I-S

---

**@1@ cannot be moved to @2@.**

### Parameter Explanation

@1@ : sending element

@2@ : receiving element

### Example

```
[C3023.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3023.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 AL01 PIC A.
000006 01 ED01 PIC 9.
000007 PROCEDURE DIVISION.
000008     MOVE AL01 TO ED01.
```

C3023.cob 8: JMN3023I-S 'AL01' cannot be moved to 'ED01'.

## Explanation

This error message is given when an explicit or implicit MOVE is coded with a combination of sending and receiving items that is not allowed. For valid combinations of sending and receiving items, refer to "Rules for Moving (Transcribing) Data" in Chapter 6 of the "NetCOBOL Language Reference".

### JMN3024I-W ([Win32])

**The intermediate result cannot contain more than 30 digits. The intermediate result is assumed to have 30 digits.**

#### Example

```
[C3024.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3024.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 ED01 PIC S9(16).
000006 01 ED02 PIC SV9(16).
000007 PROCEDURE DIVISION.
000008     ADD ED01 TO ED02.
```

C3024.cob 8: JMN3024I-W The intermediate result cannot contain more than 30 digits. The intermediate result is assumed to have 30 digits.

### JMN3024I-W ([Winx64])

**The intermediate result cannot contain more than @1@ digits. The intermediate result is assumed to have @1@ digits.**

#### Parameter Explanation

@1@ : The maximum number of intermediate result digits.

#### Example

```
[C3024.cob]
000001 @OPTIONS ARITHMETIC(18)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3024.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 ED01 PIC S9(16).
000007 01 ED02 PIC SV9(16).
000008 PROCEDURE DIVISION.
000009     ADD ED01 TO ED02.
```

C3024.cob 9: JMN3024I-W The intermediate result cannot contain more than 30 digits. The intermediate result is assumed to have 30 digits.

```
[C3024.cob]
000001 @OPTIONS ARITHMETIC(31)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3024.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 ED01 PIC S9(20).
000007 01 ED02 PIC SV9(20).
000008 PROCEDURE DIVISION.
000009     ADD ED01 TO ED02.
```

C3024.cob 9: JMN3024I-W The intermediate result cannot contain more than 38 digits. The intermediate result is assumed to have 38 digits.

## JMN3025I-S

**A Boolean expression cannot be specified in a conditional expression.**

### Example

```
[C3025.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3025.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 1(8) BIT.
000007 PROCEDURE DIVISION.
000008 P-START.
000009     IF ( A ) = B"00001111" THEN
000010     STOP RUN.
```

C3025.cob 9: JMN3025I-S A Boolean expression cannot be specified in a conditional expression.

## JMN3028I-S

**Identifier @1@ of the CALL statement must be an alphanumeric item or a national item.**

### Parameter Explanation

@1@ : Identifier

### Example

```
[C3028.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3028.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 LIB-NAME PIC S9(8).
000007 PROCEDURE DIVISION.
000008 P-START.
000009     CALL LIB-NAME.
```

C3028.cob 9: JMN3028I-S Identifier 'LIB-NAME' of the CALL statement must be an alphanumeric item or a national item.

## JMN3029I-S

**A procedure-name cannot be specified for the USING phrase in this CALL statement.**

### Example

```
[C3029.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3029.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 PROCEDURE DIVISION.
000007 P-START.
000008     CALL "C3029SUB" USING INT-START REC.
000009 INT-START.
000010     EXIT PROGRAM.
000011 IDENTIFICATION DIVISION.
000012 PROGRAM-ID. C3029SUB.
000013 ENVIRONMENT DIVISION.
000014 DATA DIVISION.
```

```

000015 LINKAGE SECTION.
000016 01 RETURN-P POINTER.
000017 PROCEDURE DIVISION USING RETURN-P.
000018 DISPLAY "C3029SUB".
000019 END PROGRAM C3029SUB.
000020 END PROGRAM C3029.

```

C3029.cob 8: JMN3029I-S A procedure-name cannot be specified for the USING phrase in this CALL statement.

### JMN3030I-S

**Identifier @1@ in the CANCEL statement must be an alphanumeric or a national item.**

#### Parameter Explanation

@1@ : Identifier

#### Example

```

[C3030.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3030.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 TEST-P PIC 9(8).
000007 PROCEDURE DIVISION.
000008 P-START.
000009 CANCEL TEST-P.

```

C3030.cob 9: JMN3030I-S Identifier 'TEST-P' in the CANCEL statement must be an alphanumeric or a national item.

### JMN3034I-S

**The content of @1@ in the SET statement cannot be changed by @2@. Specify a correct combination.**

#### Parameter Explanation

@1@ : Symbol of the set item.

@2@ : Symbol of the item or integer constant specified for the TO phrase.

#### Example

```

[C3034.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3034.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC S9(8) BINARY.
000007 01 B INDEX.
000008 PROCEDURE DIVISION.
000009 P-START.
000010 SET A TO B.
000011 STOP RUN.

```

C3034.cob 10: JMN3034I-S The content of 'A' in the SET statement cannot be changed by 'B'. Specify a correct combination.

### JMN3036I-S

**In the REPLACING phrase of the INITIALIZE statement, @1@ must be in a category that can be moved to an item of category @2@.**



## Parameter Explanation

@1@ : Symbol or constant

@2@ : Key word that shows paragraphs that can be specified by the REPLACING phrase.

## Example

```
[C3036.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3036.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006     01 A PIC X(10).
000007     01 B PIC 99 VALUE 10.
000008 PROCEDURE DIVISION.
000009     P-START.
000010         INITIALIZE A REPLACING ALPHABETIC BY B
000011             NUMERIC BY B.
000012     STOP RUN.
```

C3036.cob 10: JMN3036I-S In the REPLACING phrase of the INITIALIZE statement, 'B' must be in a category that can be moved to an item of category ALPHABETIC.

## JMN3037I-S

---

**Item @1@ which is defined with an OCCURS clause with DEPENDING cannot be specified in an INITIALIZE statement.**

## Parameter Explanation

@1@ : Item name specified for the receiving side.

## Example

```
[C3037.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3037.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006     01 A.
000007     02 B PIC X OCCURS 1 TO 10 DEPENDING ON C.
000008     01 C PIC 99.
000009 PROCEDURE DIVISION.
000010     P-START.
000011     INITIALIZE A C.
000012     STOP RUN.
```

C3037.cob 11: JMN3037I-S Item 'A' which is defined with an OCCURS clause with DEPENDING cannot be specified in an INITIALIZE statement.

## JMN3038I-S

---

**@1@ in the PERFORM statement must be a numeric item.**

## Parameter Explanation

@1@ : Identifier.

## Example

```
[C3038.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3038.
```

```

000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 99.
000007 01 B PIC XX.
000008 PROCEDURE DIVISION.
000009     PERFORM VARYING A FROM B BY 1 UNTIL A < 0
000010     COMPUTE A = A - 1
000011     END-PERFORM.
000012     STOP RUN.

```

C3038.cob 9: JMN3038I-S 'B' in the PERFORM statement must be a numeric item.

## JMN3039I-S

**@1@ in the PERFORM statement must be an integer item.**

### Parameter Explanation

@1@ : Identifier.

### Example

```

[C3039.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3039.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9V9.
000007 PROCEDURE DIVISION.
000008     PERFORM L1 A TIMES.
000009 L1.
000010     DISPLAY A.
000011 L2.
000012     STOP RUN.

```

C3039.cob 8: JMN3039I-S 'A' in the PERFORM statement must be an integer item.

## JMN3040I-S

**Identifier @1@ in the @2@ statement must be a data item that has an OCCURS clause with an INDEXED BY phrase.**

### Parameter Explanation

@1@ : Identifier.

@2@ : SEARCH/SEARCH ALL

### Example

```

[C3040.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3040.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 TBL.
000007     02 A OCCURS 5 TIMES.
000008     03 B PIC 9.
000009 PROCEDURE DIVISION.
000010     SEARCH A WHEN B(1) = 0
000011     STOP RUN.

```

C3040.cob 10: JMN3040I-S Identifier 'A' in the SEARCH statement must be a data item that has an OCCURS clause with an INDEXED BY phrase.

### JMN3041I-S

**@1@ of the VARYING phrase in the SEARCH statement must be an index-name, indexed data item, or integer item.**

#### Parameter Explanation

@1@ : Identifier.

#### Example

```
[C3041.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3041.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 TBL.
000007     02 X OCCURS 5 TIMES
000008         INDEXED BY IX1.
000009     03 A PIC 9.
000010 01 B PIC 9V9.
000011 PROCEDURE DIVISION.
000012     SEARCH X VARYING B WHEN A(IX1) = 0
000013     MOVE 1 TO A(IX1).
000014     STOP RUN.
```

C3041.cob 12: JMN3041I-S 'B' of the VARYING phrase in the SEARCH statement must be an index-name, indexed data item, or integer item.

### JMN3043I-S

**The two operands connected by the THROUGH phrase in the EVALUATE statement must be of the same class.**

#### Example

```
[C3043.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3043.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9(2).
000007 01 B PIC XX.
000008 01 X PIC 9(2).
000009 PROCEDURE DIVISION.
000010     EVALUATE X
000011     WHEN A THROUGH B
000012     MOVE 1 TO A.
000013     STOP RUN.
```

C3043.cob 11: JMN3043I-S The two operands connected by the THROUGH phrase in the EVALUATE statement must be of the same class.

### JMN3046I-S

**If an arithmetic expression, identifier, or literal is specified in the selection subject of the EVALUATE statement, the selection object must be an arithmetic expression, identifier, literal, or 'ANY'.**

## Example

```
[C3046.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3046.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9(2).
000007 PROCEDURE DIVISION.
000008 EVALUATE A
000009 WHEN 0
000010 MOVE 0 TO A
000011 WHEN TRUE
000012 MOVE 1 TO A
000013 END-EVALUATE.
000014 END PROGRAM C3046.
```

C3046.cob 11: JMN3046I-S If an arithmetic expression, identifier, or literal is specified in the selection subject of the EVALUATE statement, the selection object must be an arithmetic expression, identifier, literal, or 'ANY'.

## JMN3048I-S

**The two operands connected with the THROUGH phrase in the EVALUATE statement cannot be a Boolean or object identifier.**

### Example

```
[C3048.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3048.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 1(2).
000007 01 B PIC 1(2).
000008 01 X PIC 1(2).
000009 PROCEDURE DIVISION.
000010 EVALUATE X
000011 WHEN A THROUGH B
000012 MOVE B"01" TO A.
000013 STOP RUN.
```

C3048.cob 11: JMN3048I-S The two operands connected with the THROUGH phrase in the EVALUATE statement cannot be a Boolean or object identifier.

## JMN3049I-S

**If 'TRUE' or 'FALSE' is specified in the selection subject of the EVALUATE statement, the selection object must be a conditional expression, 'TRUE', 'FALSE', or 'ANY'.**

### Example

```
[C3049.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3049.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC X(2).
000007 PROCEDURE DIVISION.
000008 EVALUATE TRUE
000009 WHEN A
```

```
000010     MOVE 1 TO A.
000011     STOP RUN.
```

C3049.cob 9: JMN3049I-S If 'TRUE' or 'FALSE' is specified in the selection subject of the EVALUATE statement, the selection object must be a conditional expression, 'TRUE', 'FALSE', or 'ANY'.

## JMN3050I-W

**No corresponding items exist in the @1@ statement with CORRESPONDING phrase. The statement is ignored.**

### Parameter Explanation

@1@ : MOVE, ADD, or SUBTRACT

### Example

```
[C3050.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    C3050.
000003 ENVIRONMENT  DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 DATA  DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01  AA.
000008     02 CC-1      PIC 9(4).
000009     02 CC-2      PIC 9(8).
000010 01  BB.
000011     02 CC-3      PIC 9(4).
000012     02 CC-4      PIC 9(8).
000013 PROCEDURE  DIVISION.
000014 P-START.
000015     ADD CORR AA TO BB.
000016     STOP RUN.
```

C3050.cob 15: JMN3050I-W No corresponding items exist in the ADD statement with CORRESPONDING phrase. The statement is ignored.

### Explanation

If there are no elementary items that correspond between sending and receiving items in a statement that has the CORRESPONDING phrase, then the statement has no meaning.

Note that for elementary items to match, the fully qualified names, below the items specified in the statement, must match. It is not sufficient that the names of the elementary items match if there are intervening group items between the elementary items and the items specified in the statement.

## JMN3051I-S

**@2@ specified in the @1@ statement with the CORRESPONDING phrase must be a group item.**

### Parameter Explanation

@1@ : MOVE, ADD or SUBTRACT.

@2@ : Identifier.

### Example

```
[C3051.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    C3051.
000003 ENVIRONMENT  DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 DATA  DIVISION.
000006 WORKING-STORAGE SECTION.
```

```

000007 01 AA.
000008     02 CC-1     PIC 9(4).
000009     02 CC-2     PIC 9(8).
000010 01 BB.
000011     02 CC-3     PIC 9(4).
000012     02 CC-4     PIC 9(8).
000013 PROCEDURE DIVISION.
000014 P-START.
000015     ADD CORR CC-2 TO BB.
000016     STOP RUN.

```

C3051.cob 15: JMN3051I-S 'CC-2' specified in the ADD statement with the CORRESPONDING phrase must be a group item.

## JMN3053I-S

**In the ACCEPT statement specifying a mnemonic-name or function-name, identifier @1@ must be a fixed-length group item, alphabetic item, alphanumeric item, external decimal item, internal decimal item, binary item, or external boolean item.**

### Parameter Explanation

@1@ : Identifier.

### Example

```

[C3053.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3053.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 AA     PIC ZZZZ9.
000007 PROCEDURE DIVISION.
000008 P-START.
000009     ACCEPT AA FROM SYSIN.
000010     STOP RUN.

```

C3053.cob 9: JMN3053I-S In the ACCEPT statement specifying a mnemonic-name or function-name, identifier 'AA' must be a fixed-length group item, alphabetic item, alphanumeric item, external decimal item, internal decimal item, binary item, or external boolean item.

## JMN3054I-S

**If a DATE, DAY, DAY-OF-WEEK, or TIME is specified in the FROM phrase of the ACCEPT statement, @1@ must be a fixed length group item, alphanumeric, alphanumeric edited, numeric edited, external decimal, or binary item.**

### Parameter Explanation

@1@ : Identifier.

### Example

```

[C3054.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3054.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT IN-FILE ASSIGN TO DA-S-SYS006.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD IN-FILE LABEL RECORD STANDARD.
000010 01 REC.

```

```

000011      02 REC-NO      PIC 9(4).
000012      02 REC-DATA   PIC X(8).
000013      02 FILLER     PIC X(68).
000014 WORKING-STORAGE SECTION.
000015 77 AA              PIC 1(8).
000016 PROCEDURE DIVISION.
000017 P-START.
000018      ACCEPT AA FROM DATE.
000019      STOP RUN.

```

C3054.cob 18: JMN3054I-S If a DATE, DAY, DAY-OF-WEEK, or TIME is specified in the 'FROM' phrase of the ACCEPT statement, 'AA' must be a fixed length group item, alphanumeric, alphanumeric edited, numeric edited, external decimal, or binary item.

## JMN3056I-S

**@1@ @2@ cannot be specified to a @4@ phrase in a @3@ statement.**

### Parameter Explanation

@1@ : Organization of file

@2@ : File name

@3@ : SORT or MERGE

@4@ : USING or GIVING

### Example

```

[C3056.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3056.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO DA-S-SYS001.
000007     SELECT FILE-2 ASSIGN TO DA-D-SYS002.
000008     SELECT FILE-3 ASSIGN TO DA-I-SYS003
000009             ACCESS MODE IS RANDOM
000010             INDEXED RECORD KEY IS KEY-3-1.
000011 DATA DIVISION.
000012 FILE SECTION.
000013 SD FILE-1 LABEL RECORD STANDARD.
000014 01 REC-1.
000015     02 KEY-1      PIC 9(2).
000016     02 KEY-2      PIC 9(2).
000017     02 KEY-3      PIC 9(2).
000018     02 FILLER     PIC X(74).
000019 FD FILE-2 LABEL RECORD STANDARD.
000020 01 REC-2      PIC X(80).
000021 FD FILE-3 LABEL RECORD STANDARD.
000022 01 REC-3.
000023     02 KEY-3-1    PIC 9(2).
000024     02 KEY-3-2    PIC X(78).
000025 PROCEDURE DIVISION.
000026 P-START.
000027     SORT FILE-1 ON ASCENDING KEY KEY-1 KEY-2
000028     USING FILE-2
000029     GIVING FILE-3.
000030     STOP RUN.

```

C3056.cob 27: JMN3056I-S Indexed file 'FILE-3' cannot be specified to a GIVING phrase in a SORT statement.

## Explanation

The file which the message shows is not a type which can be specified for the USING phrase and the GIVING phrase of the SORT statement and the MERGE statement.

Only the file of the following types can be specified:

- Sequential files on a mass storage unit or floppy disk drive
- Relative files in sequential access mode
- Indexed files in sequential access mode

## JMN3057I-S

**An alphabet-name corresponding to a function-name cannot be specified in the COLLATING SEQUENCE phrase of @1@.**

### Parameter Explanation

@1@ : SORT or MERGE

### Example

```
[C3057.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3057.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006     ABN-1 IS CODE-3.
000007 INPUT-OUTPUT SECTION.
000008 FILE-CONTROL.
000009     SELECT FILE-1 ASSIGN TO DA-S-SYS001.
000010     SELECT FILE-2 ASSIGN TO DA-S-SYS002.
000011     SELECT FILE-3 ASSIGN TO DA-S-SYS003.
000012 DATA DIVISION.
000013 FILE SECTION.
000014 SD FILE-1 LABEL RECORD STANDARD.
000015 01 REC-1.
000016     02 KEY-1     PIC 9(2).
000017     02 KEY-2     PIC 9(2).
000018     02 KEY-3     PIC 9(2).
000019     02 FILLER     PIC X(74).
000020 FD FILE-2 LABEL RECORD STANDARD.
000021 01 REC-2     PIC X(80).
000022 FD FILE-3 LABEL RECORD STANDARD.
000023 01 REC-3     PIC X(80).
000024 PROCEDURE DIVISION.
000025 P-START.
000026     SORT FILE-1 ON ASCENDING KEY KEY-1 KEY-2
000027     COLLATING SEQUENCE ABN-1
000028     USING FILE-2
000029     GIVING FILE-3.
000030 STOP RUN.
```

C3057.cob 26: JMN3057I-S An alphabet-name corresponding to a function-name cannot be specified in the COLLATING SEQUENCE phrase of SORT.

## JMN3060I-S

**@1@ defined in the CONSTANT SECTION cannot be specified in a receiving field.**

### Parameter Explanation

@1@ : Name of identifier.



## Example

```
[C3060.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3060.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 DATA DIVISION.
000006 FILE SECTION.
000007 CONSTANT SECTION.
000008 01 ED-DATA PIC 9(4) VALUE 10.
000009 PROCEDURE DIVISION.
000010 P-START.
000011 MOVE 20 TO ED-DATA.
000012 STOP RUN.
```

C3060.cob 11: JMN3060I-S 'ED-DATA' defined in the CONSTANT SECTION cannot be specified in a receiving field.

## JMN3061I-S

### Special register @1@ cannot be specified in a receiving field.

#### Parameter Explanation

@1@ : Special register name(LINE-COUNTER or LINAGE-COUNTER)

## Example

```
[C3061.cob]
000001 PROGRAM-ID. C3061.
000002 ENVIRONMENT DIVISION.
000003 INPUT-OUTPUT SECTION.
000004 FILE-CONTROL.
000005 SELECT RW-FS1 ASSIGN TO
000006 REPFIL.
000007 SELECT PRINT-FILE ASSIGN TO
000008 SYS006.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD PRINT-FILE
000012 LINAGE IS 50 LINES.
000013 01 PRINT-REC PIC X(120).
000014 FD RW-FS1
000015 LABEL RECORDS ARE STANDARD
000016 REPORT IS RW-FS1-REPORT-1.
000017 WORKING-STORAGE SECTION.
000018 01 REPORT-LINE-IMAGE.
000019 02 FILLER PICTURE X(43).
000020 02 WS-COUNTER PICTURE 9(6) VALUE ZERO.
000021 02 STORE-LINE-COUNTER PICTURE 9(6).
000022 REPORT SECTION.
000023 RD RW-FS1-REPORT-1
000024 PAGE LIMIT IS 20 LINES.
000025 01 RW-FS1-GROUP
000026 TYPE IS DETAIL.
000027 03 RW-FS1-ELEM
000028 LINE NUMBER IS PLUS 1
000029 COLUMN NUMBER IS 5
000030 PICTURE X(76)
000031 SOURCE IS REPORT-LINE-IMAGE.
000032 PROCEDURE DIVISION.
000033 MOVE 100 TO LINE-COUNTER
000034 MOVE 10 TO LINAGE-COUNTER
```

```
000035 .  
000036 END PROGRAM C3061.
```

C3061.cob 33: JMN3061I-S Special register 'LINE-COUNTER' cannot be specified in a receiving field.

C3061.cob 34: JMN3061I-S Special register 'LINAGE-COUNTER' cannot be specified in a receiving field.

## JMN3062I-S

**Operand @2@ in the @1@ statement must be a numeric item.**

### Parameter Explanation

@1@ : ADD/SUBTRACT/MULTIPLY/DIVIDE

@2@ : Name of the identifier.

### Example

```
[C3062.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C3062.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01 A PIC X(4).  
000007 01 B PIC 9(4).  
000008 PROCEDURE DIVISION.  
000009 P-START.  
000010     ADD A TO B.  
000011     SUBTRACT A FROM B.  
000012     MULTIPLY A BY B.  
000013     DIVIDE A INTO B.  
000014     STOP RUN.
```

C3062.cob 10: JMN3062I-S Operand 'A' in the ADD statement must be numeric item.

C3062.cob 11: JMN3062I-S Operand 'A' in the SUBTRACT statement must be numeric item.

C3062.cob 12: JMN3062I-S Operand 'A' in the MULTIPLY statement must be numeric item.

C3062.cob 13: JMN3062I-S Operand 'A' in the DIVIDE statement must be numeric item.

## JMN3063I-S

**Operand @2@ of the GIVING phrase in the @1@ statement must be a numeric or a numeric edited item.**

### Parameter Explanation

@1@ : ADD/SUBTRACT/MULTIPLY/DIVIDE

@2@ : Name of identifier.

### Example

```
[C3063.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C3063.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01 A PIC 9(4).  
000007 01 B PIC 9(4).  
000008 01 C PIC X(4).  
000009 PROCEDURE DIVISION.  
000010 P-START.  
000011     ADD A TO B GIVING C.
```

```

000012    SUBTRACT A FROM B GIVING C.
000013    MULTIPLY A BY B GIVING C.
000014    DIVIDE A INTO B GIVING C.
000015    STOP RUN.

```

C3063.cob 11: JMN3063I-S Operand 'C' of the GIVING phrase in the ADD statement must be a numeric or a numeric edited item.

C3063.cob 12: JMN3063I-S Operand 'C' of the GIVING phrase in the SUBTRACT statement must be a numeric or a numeric edited item.

C3063.cob 13: JMN3063I-S Operand 'C' of the GIVING phrase in the MULTIPLY statement must be a numeric or a numeric edited item.

C3063.cob 14: JMN3063I-S Operand 'C' of the GIVING phrase in the DIVIDE statement must be a numeric or a numeric edited item.

## JMN3064I-S

**Corresponding item @2@ in the @1@ statement with the CORRESPONDING phrase must be an elementary numeric data item.**

### Parameter Explanation

@1@ : ADD/SUBTRACT

@2@ : Name of identifier.

### Example

```

[C3064.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    C3064.
000003 ENVIRONMENT  DIVISION.
000004 DATA  DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01  A.
000007     02 C1 PIC XX.
000008 01  B.
000009     02 C1 PIC 99.
000010 PROCEDURE  DIVISION.
000011 P-START.
000012     ADD CORR A TO B.
000013     SUBTRACT CORR A FROM B.
000014     STOP RUN.

```

C3064.cob 12: JMN3064I-S Corresponding item 'C1' in the ADD statement with the CORRESPONDING phrase must be an elementary numeric data item.

C3064.cob 13: JMN3064I-S Corresponding item 'C1' in the SUBTRACT statement with the CORRESPONDING phrase must be an elementary numeric data item.

## JMN3065I-S

**@1@ of the DIVIDE statement with the REMAINDER clause must be a fixed decimal point item or a decimal point literal.**

### Parameter Explanation

@1@ : dividend/divisor

### Example

```

[C3065.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    C3065.
000003 ENVIRONMENT  DIVISION.
000004 DATA  DIVISION.
000005 WORKING-STORAGE SECTION.

```

```

000006 01  A COMP-1.
000007 01  B PIC 99.
000008 01  C PIC 9999.
000009 01  D PIC 99.
000010 PROCEDURE  DIVISION.
000011 P-START.
000012     DIVIDE A BY    B GIVING C REMAINDER D.
000013     DIVIDE A INTO B GIVING C REMAINDER D.
000014     STOP RUN.

```

C3065.cob 12: JMN3065I-S Dividend of the DIVIDE statement with the REMAINDER clause must be a fixed decimal point item or a decimal point literal.

C3065.cob 13: JMN3065I-S Divisor of the DIVIDE statement with the REMAINDER clause must be a fixed decimal point item or a decimal point literal.

## JMN3066I-S

**Receiving item @1@ of the DIVIDE statement with a remainder must be a fixed decimal point item or a numeric edited item.**

### Parameter Explanation

@1@ : Name of identifier.

### Example

```

[C3066.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    C3066.
000003 ENVIRONMENT  DIVISION.
000004 DATA  DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01  A PIC 9999.
000007 01  B PIC 99.
000008 01  C PIC 9999.
000009 01  D COMP-1.
000010 PROCEDURE  DIVISION.
000011 P-START.
000012     DIVIDE A INTO B GIVING C REMAINDER D.
000013     STOP RUN.

```

C3066.cob 12: JMN3066I-S Receiving item 'D' of the DIVIDE statement with remainder must be fixed decimal point item or a numeric edited item.

## JMN3067I-S

**The literal of the boolean expression must be a boolean literal or ZERO. The literal is assumed to be ZERO.**

### Example

```

[C3067.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    C3067.
000003 ENVIRONMENT  DIVISION.
000004 DATA  DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01  A PIC 1111.
000007 PROCEDURE  DIVISION.
000008 P-START.
000009     COMPUTE A = B"1010" AND 1234.
000010     STOP RUN.

```

C3067.cob 9: JMN3067I-S The literal of the boolean expression must be a boolean literal or ZERO. The literal is assumed to be ZERO.

## JMN3068I-S

**The length of boolean items and boolean literals (except a boolean literal with 'ALL') must be the same.**

### Example

```
[C3068.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3068.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 1111.
000007 01 B PIC 1111.
000008 01 C PIC 11111.
000009 PROCEDURE DIVISION.
000010 P-START.
000011 COMPUTE A = B AND C.
000012 COMPUTE A = B"101011" AND B"111".
000013 STOP RUN.
```

C3068.cob 11: JMN3068I-S The length of boolean items and boolean literals (except a boolean literal with 'ALL') must be the same.

C3068.cob 12: JMN3068I-S The length of boolean items and boolean literals (except a boolean literal with 'ALL') must be the same.

## JMN3069I-S

**Receiving operand @1@ with the [NOT] ON SIZE ERROR phrase must be a numeric item or a numeric edited item.**

### Parameter Explanation

@1@ : Name of identifier.

### Example

```
[C3069.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3069.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC XXXX.
000007 01 B PIC 9(4).
000008 01 C PIC 9(4).
000009 01 D PIC 9(4).
000010 PROCEDURE DIVISION.
000011 P-START.
000012 COMPUTE A = B + C ON SIZE ERROR STOP RUN
000013 NOT ON SIZE ERROR MOVE B TO D.
000014 STOP RUN.
```

C3069.cob 12: JMN3069I-S Receiving operand 'A' with the [NOT] ON SIZE ERROR phrase must be a numeric item or a numeric edited item.

## JMN3070I-S

**The expression to the right of the equals sign in a COMPUTE statement with the [NOT] ON SIZE ERROR phrase must be an arithmetic expression.**

### Example

```
[C3070.cob]
000001 IDENTIFICATION DIVISION.
```

```

000002 PROGRAM-ID. C3070.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9(4).
000007 01 B PIC XXXX.
000008 01 C PIC 9(4).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 COMPUTE A = B ON SIZE ERROR STOP RUN
000012 NOT ON SIZE ERROR MOVE B TO C.
000013 STOP RUN.

```

C3070.cob 11: JMN3070I-S The expression to the right of the equals sign in a COMPUTE statement with the [NOT] ON SIZE ERROR phrase must be an arithmetic expression.

## JMN3071I-S

**If the expression to the right of the equals sign in a COMPUTE statement is an arithmetic expression, receiving operand @1@ must be a numeric item or a numeric edited item.**

### Parameter Explanation

@1@ : Name of identifier.

### Example

```

[C3071.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3071.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 1111.
000007 01 B PIC 9(4).
000008 01 C PIC 9(4).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 COMPUTE A = B + C.
000012 STOP RUN.

```

C3071.cob 11: JMN3071I-S If the expression to the right of the equals sign in a COMPUTE statement is an arithmetic expression, receiving operand 'A' must be a numeric item or a numeric edited item.

## JMN3072I-S

**If the expression to the right of the equals sign in a COMPUTE statement is a boolean expression, receiving operand @1@ must be a boolean item.**

### Parameter Explanation

@1@ : Name of identifier.

### Example

```

[C3072.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3072.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9(4).
000007 01 B PIC 1111.
000008 01 C PIC 1111.
000009 PROCEDURE DIVISION.

```

```
000010 P-START.  
000011     COMPUTE A = B AND C.  
000012     STOP RUN.
```

C3072.cob 11: JMN3072I-S If the expression to the right of the equals sign in a COMPUTE statement is a boolean expression, receiving operand 'A' must be a boolean item.

### JMN3073I-S

**The expression to the right of the equals sign in a COMPUTE statement must be an arithmetic expression or a boolean expression.**

#### Example

```
[C3073.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.    C3073.  
000003 ENVIRONMENT  DIVISION.  
000004 DATA  DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01  A PIC 9(4).  
000007 01  B PIC XXXX.  
000008 PROCEDURE  DIVISION.  
000009 P-START.  
000010     COMPUTE A = B.  
000011     STOP RUN.
```

C3073.cob 10: JMN3073I-S The expression to the right of the equals sign in a COMPUTE statement must be an arithmetic expression or a boolean expression.

### JMN3074I-S

**Receiving operand @1@ of the COMPUTE statement must be a numeric item, a numeric edited item, or a boolean item.**

#### Parameter Explanation

@1@ : Name of identifier.

#### Example

```
[C3074.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.    C3074.  
000003 ENVIRONMENT  DIVISION.  
000004 DATA  DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01  A PIC XXXX.  
000007 PROCEDURE  DIVISION.  
000008 P-START.  
000009     COMPUTE A = ZERO.  
000010     STOP RUN.
```

C3074.cob 9: JMN3074I-S Receiving operand 'A' of the COMPUTE statement must be a numeric item, a numeric edited item, or a boolean item.

### JMN3075I-S

**Receiving items of the COMPUTE statement must be numeric items or numeric edited items, or they all must be boolean items.**

## Example

```
[C3075.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3075.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9999.
000007 01 B PIC 1111.
000008 01 C PIC XXXX.
000009 PROCEDURE DIVISION.
000010 P-START.
000011 COMPUTE A B = ZERO.
000012 STOP RUN.
```

C3075.cob 11: JMN3075I-S Receiving items of the COMPUTE statement must be numeric items or numeric edited items, or they all must be boolean items.

## JMN3076I-S

---

**The ROUNDED phrase cannot be specified for a COMPUTE statement containing a boolean item.**

### Example

```
[C3076.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3076.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 1111.
000007 01 B PIC 1111.
000008 01 C PIC 1111.
000009 PROCEDURE DIVISION.
000010 P-START.
000011 COMPUTE A ROUNDED = B AND C.
000012 STOP RUN.
```

C3076.cob 11: JMN3076I-S The ROUNDED phrase cannot be specified for a COMPUTE statement containing a boolean item.

## JMN3077I-S

---

**@1@(@2@) and @3@(@4@) cannot be compared.**

### Parameter Explanation

@1@ : Identifier, special register, or index-name.

@2@ : Data type.

@3@ : Identifier, special register, or index-name.

@4@ : Data type.

### Example

```
[C3077.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3077.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC S9(3) PACKED-DECIMAL.
000007 01 B PIC XX.
000008 PROCEDURE DIVISION.
```



```
000009 P-START.  
000010     IF A = B     STOP RUN.
```

C3077.cob 10: JMN3077I-S 'A'(internal decimal) and 'B'(alphanumeric) cannot be compared.

### JMN3078I-S

**A comparison between a literal and a literal cannot be done in a relation condition.**

Example

```
[C3078.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C3078.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 PROCEDURE DIVISION.  
000006 P-START.  
000007     IF 10 = 20 STOP RUN.
```

C3078.cob 7: JMN3078I-S A comparison between a literal and a literal cannot be done in a relation condition.

### JMN3079I-S

**The relational operator for a comparison of boolean operands must be 'EQUAL(=)' or 'NOT EQUAL(NOT =)'.**

Example

```
[C3079.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C3079.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01 A PIC 1(8).  
000007 01 B PIC 1(8) BIT.  
000008 PROCEDURE DIVISION.  
000009 P-START.  
000010     IF A > B     STOP RUN.
```

C3079.cob 10: JMN3079I-S The relational operator for a comparison of boolean operands must be 'EQUAL(=)' or 'NOT EQUAL(NOT =)'.

### JMN3080I-S

**In comparison between a Boolean operand and a Boolean operand other than an ALL boolean literal, the number of Boolean characters of both operands must be the same.**

Example

```
[C3080.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C3080.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01 A PIC 1 BIT.  
000007 01 B PIC 1(8) BIT.  
000008 PROCEDURE DIVISION.  
000009 P-START.  
000010     IF A = B     STOP RUN.
```

C3080.cob 10: JMN3080I-S In comparison between a Boolean operand and a Boolean operand other than ALL boolean literal, the number of Boolean characters of both operands must be the same.

### JMN3081I-S

**@1@ of the index comparison must be an integer.**

#### Parameter Explanation

@1@ : Identifier or figure constant.

#### Example

```
[C3081.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3081.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC S9(4)V9 BINARY.
000007 01 B.
000008 02 C OCCURS 10 TIMES INDEXED BY IX.
000009 03 D PIC XX.
000010 PROCEDURE DIVISION.
000011 P-START.
000012 IF A = IX STOP RUN.
```

C3081.cob 12: JMN3081I-S 'A' of the index comparison must be an integer.

### JMN3083I-S

**For an @1@ check of a class condition, @2@ must be a group item, alphabetic item, alphanumeric item, alphanumeric edited item, or numeric edited item.**

#### Parameter Explanation

@1@ : ALPHABETIC, ALPHABETIC-LOWER or ALPHABETIC-UPPER.

@2@ : Identifier.

#### Example

```
[C3083.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3083.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9(4).
000007 PROCEDURE DIVISION.
000008 P-START.
000009 IF A IS ALPHABETIC STOP RUN.
```

C3083.cob 9: JMN3083I-S For an ALPHABETIC check of a class condition, 'A' must be a group item, alphabetic item, alphanumeric item, alphanumeric edited item, or numeric edited item.

### JMN3084I-S

**For a numeric check of a class condition, @1@ must be an external decimal item, internal decimal item, group item, alphanumeric item, alphanumeric edited item, or numeric edited item.**

#### Parameter Explanation

@1@ : Identifier.

## Example

```
[C3084.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3084.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC A(4).
000007 PROCEDURE DIVISION.
000008 P-START.
000009 IF A IS NUMERIC STOP RUN.
```

C3084.cob 9: JMN3084I-S For numeric check of class condition, 'A' must be external decimal item, internal decimal item, group item, alphanumeric item, alphanumeric edited item, or numeric edited item.

## JMN3085I-S

**For a boolean check of a class condition, @1@ must be an external boolean item, group item, alphanumeric item, alphanumeric edited item, or numeric edited item.**

### Parameter Explanation

@1@ : Identifier.

## Example

```
[C3085.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3085.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9(4).
000007 PROCEDURE DIVISION.
000008 P-START.
000009 IF A IS BOOLEAN STOP RUN.
```

C3085.cob 9: JMN3085I-S For a boolean check of class condition, 'A' must be an external boolean item, group item, alphanumeric item, alphanumeric edited item, or numeric edited item.

## JMN3086I-S

**For a class name check of a class condition, @1@ must be a group item, alphabetic item, alphanumeric item, alphanumeric edited item, or numeric edited item.**

### Parameter Explanation

@1@ : Identifier.

## Example

```
[C3086.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3086.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006 CLASS ABC IS "ABC".
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 A PIC 9.
000010 PROCEDURE DIVISION.
```

```
000011 P-START.  
000012     IF A IS ABC     STOP RUN.
```

C3086.cob 12: JMN3086I-S For a class name check of a class condition, 'A' must be a group item, alphabetic item, alphanumeric item, alphanumeric edited item, or numeric edited item.

## JMN3087I-S

**@1@ of the sign condition must be a numeric item.**

### Parameter Explanation

@1@ : Identifier.

### Example

```
[C3087.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.     C3087.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01  A      PIC X(4).  
000007 PROCEDURE DIVISION.  
000008 P-START.  
000009     IF A IS POSITIVE     STOP RUN.
```

C3087.cob 9: JMN3087I-S 'A' of the sign condition must be a numeric item.

## JMN3088I-S

**The arithmetic expression of the sign condition must contain at least one identifier.**

### Example

```
[C3088.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.     C3088.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 PROCEDURE DIVISION.  
000006     IF 10 + 20 IS POSITIVE THEN  
000007         DISPLAY "ERROR"  
000008     END-IF  
000008 END PROGRAM     C3088.
```

C3088.cob 6: JMN3088I-S The arithmetic expression of the sign condition must contain at least one identifier.

## JMN3090I-S

**The usage of sending item @1@ in the UNSTRING statement must be 'DISPLAY'.**

### Parameter Explanation

@1@ : Identifier.

### Example

```
[C3090.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.     C3090.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01  A      PIC 9(10) PACKED-DECIMAL.
```

```

000007 01 B PIC XX.
000008 01 C PIC X(4).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 UNSTRING A DELIMITED BY B INTO C.
000012 STOP RUN.

```

C3090.cob 11: JMN3090I-S The usage of sending item 'A' in the UNSTRING statement must be 'DISPLAY'.

## JMN3091I-S

**An item with a reference modifier cannot be specified for the sending operand of an UNSTRING statement.**

### Example

```

[C3091.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3091.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC X(10).
000007 01 B PIC XX.
000008 01 C PIC X(4).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 UNSTRING A(1:6) DELIMITED BY B INTO C.
000012 STOP RUN.

```

C3091.cob 11: JMN3091I-S An item with a reference modifier cannot be specified for a sending operand of an UNSTRING statement.

## JMN3092I-S

**The usage of identifier @2@ of the @1@ phrase in the UNSTRING statement must be 'DISPLAY'.**

### Parameter Explanation

@1@ : DELIMITED, INTO or DELIMITER.

@2@ : Identifier.

### Example

```

[C3092.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3092.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC X(10).
000007 01 B PIC 9(3) PACKED-DECIMAL.
000008 01 C PIC X(4).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 UNSTRING A DELIMITED BY B INTO C.
000012 STOP RUN.

```

C3092.cob 11: JMN3092I-S The usage of identifier 'B' of the DELIMITED phrase in the UNSTRING statement must be 'DISPLAY'.

## JMN3095I-S

**Identifier @1@ of the INTO phrase in the UNSTRING statement cannot be an alphanumeric edited item, numeric edited item, national edited item, or a numeric item having 'P' in its PICTURE character-string.**

## Parameter Explanation

@1@ : Identifier.

## Example

```
[C3095.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3095.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC X(10).
000007 01 B PIC XX.
000008 01 C PIC ZZZ,ZZZ.
000009 PROCEDURE DIVISION.
000010 P-START.
000011 UNSTRING A DELIMITED BY B INTO C.
000012 STOP RUN.
```

C3095.cob 11: JMN3095I-S Identifier 'C' of the INTO phrase in the UNSTRING statement cannot be an alphanumeric edited item, numeric edited item, national edited item, or a numeric item having 'P' in its PICTURE character-string.

## JMN3097I-S

---

**Identifier @2@ of the @1@ phrase of the UNSTRING statement must be an integer item.**

## Parameter Explanation

@1@ : COUNT, POINTER or TALLYING.

@2@ : Identifier.

## Example

```
[C3097.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3097.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC X(10).
000007 01 B PIC XX.
000008 01 C PIC X(4).
000009 01 D PIC 9(3)V9 BINARY.
000010 PROCEDURE DIVISION.
000011 P-START.
000012 UNSTRING A DELIMITED BY B INTO C POINTER D.
000013 STOP RUN.
```

C3097.cob 12: JMN3097I-S Identifier 'D' of the POINTER phrase of the UNSTRING statement must be an integer item.

## JMN3098I-S

---

**If any of the operands in the DELIMITED BY phrase, INTO phrase, or DELIMITER IN phrase is a national type, then, in the UNSTRING statement on the sending side, the type for all must be national type and should have the same encoding.**

## Example

```
[C3098.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3098.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
```

```

000005 WORKING-STORAGE SECTION.
000006 01  A    PIC N(10).
000007 01  B    PIC XX.
000008 01  C    PIC N(4).
000009 01  D    PIC XX.
000010 PROCEDURE DIVISION.
000011 P-START.
000012     UNSTRING A  DELIMITED BY B  INTO C  DELIMITER IN D.
000013     STOP RUN.

```

C3098.cob 12: JMN3098I-S If any of the operands in the DELIMITED BY phrase, INTO phrase, or DELIMITER IN phrase is a national type, then, in the UNSTRING statement on the sending side, the type for all must be national type and should have the same Encoding.

## JMN3105I-S

**Corresponding item @2@ is not unique in the @1@ statement with the CORRESPONDING phrase.**

### Parameter Explanation

@1@ : ADD, SUBTRACT or MOVE.

@2@ : Identifier.

### Example

```

[C3105.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3105.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01  S.
000007     02 B PIC X(5).
000008     02 C.
000009     03 B PIC X(1).
000010     02 D PIC X(5).
000011 01  R.
000012     02 B PIC X(5).
000013     02 D PIC X(5).
000014 PROCEDURE DIVISION.
000015 P-START.
000016     MOVE CORRESPONDING S TO R.
000017     STOP RUN.

```

C3105.cob 16: JMN3105I-S Corresponding item 'B' is not unique in the MOVE statement with the CORRESPONDING phrase.

## JMN3107I-S

**The usage of operand @2@ of the @1@ phrase in the STRING statement must be 'DISPLAY'.**

### Parameter Explanation

@1@ : DELIMITED or INTO.

@2@ : Identifier.

### Example

```

[C3107.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3107.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01  AN-1 PIC X(6).
000006 01  AN-2 PIC 9(2) BINARY.

```

```

000007 01  AN-3 PIC X(10).
000008 PROCEDURE DIVISION.
000009 P-START.
000010     STRING AN-1  DELIMITED BY AN-2 INTO AN-3.
000011     STRING AN-1  DELIMITED BY SIZE INTO AN-2.
000012     STOP RUN.

```

C3107.cob 10: JMN3107I-S The usage of operand 'AN-2' of the DELIMITED phrase in the STRING statement must be 'DISPLAY'.

C3107.cob 11: JMN3107I-S The usage of operand 'AN-2' of the INTO phrase in the STRING statement must be 'DISPLAY'.

## JMN3108I-S

**An item with a reference modifier cannot be specified as a receiving area item in the STRING statement.**

### Example

```

[C3108.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3108.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01  AN-1 PIC X(6).
000006 01  AN-2 PIC X(10).
000007 01  I   PIC 9   BINARY.
000008 PROCEDURE DIVISION.
000009 P-START.
000010     STRING AN-1  DELIMITED BY "I" INTO AN-2(I : I).
000011     STOP RUN.

```

C3108.cob 10: JMN3108I-S An item with a reference modifier cannot be specified as a receiving area item in the STRING statement.

## JMN3109I-S

**Item @2@ of the '@1@' phrase in the STRING statement must be an integer item.**

### Parameter Explanation

@1@ : POINTER

@2@ : Identifier.

### Example

```

[C3109.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3109.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01  AN-1 PIC X(6).
000006 01  AN-2 PIC X(10).
000007 01  PTR PIC 99V9.
000008 PROCEDURE DIVISION.
000009 P-START.
000010     STRING AN-1  DELIMITED BY "I" INTO AN-2 POINTER PTR.
000011     STOP RUN.

```

C3109.cob 10: JMN3109I-S Item 'PTR' of the 'POINTER' phrase in the STRING statement must be an integer item.

## JMN3110I-S

**The receiving item in the STRING statement cannot be an alphanumeric edited item, a numeric edited item, or a national edited item.**



## Example

```
[C3110.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3110.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 AN-1 PIC X(6) VALUE "STRING".
000006 01 AN-2 PIC ZZZ9.
000007 PROCEDURE DIVISION.
000008 P-START.
000009     STRING AN-1 DELIMITED BY "I" INTO AN-2.
000010     STOP RUN.
```

C3110.cob 9: JMN3110I-S The receiving item in the STRING statement cannot be an alphanumeric edited item, a numeric edited item, or a national edited item.

## JMN3111I-S

**If any of the operands in the DELIMITED BY phrase or the INTO phrase is a national type, then on the sending side in the STRING statement, all operands must be National language and have the same encoding.**

## Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3111.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 AN-1 PIC X(6) VALUE "STRING".
000006 01 AN-2 PIC X(10).
000007 PROCEDURE DIVISION.
000008 P-START.
000009     STRING AN-1 DELIMITED BY N"あ" INTO AN-2.
000010     STOP RUN.
```

C3111.cob 8: JMN3111I-S If any of the operands in the DELIMITED BY phrase or the INTO phrase is a national type, then on the sending side in the STRING statement, all operands must be National language and have the same encoding.

## JMN3116I-S

**@1@ @2@ cannot be specified in the @3@ phrase of the OPEN statement.**

### Parameter Explanation

@1@ : Organization of file.

@2@ : Fine name.

@3@ : 'INPUT', 'OUTPUT', 'I-O' or 'EXTEND'.

## Example

```
[C3116.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3116.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 LINE SEQUENTIAL ASSIGN TO PS-SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD FILE-1.
000010     01 REC-1 PIC X(80).
000011 PROCEDURE DIVISION.
```

```
000012 OPEN I-O FILE-1.
000013 STOP RUN.
```

C3116.cob 12: JMN3116I-S Line sequential file 'FILE-1' cannot be specified in the I-O phrase of the OPEN statement.

## JMN3117I-S

**File @1@ with the LINAGE clause cannot be specified in the EXTEND phrase of the OPEN statement.**

### Parameter Explanation

@1@ : File name.

### Example

```
[C3117.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3117.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO S-SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD FILE-1 LINAGE IS 50 LINES.
000010     01 REC-1 PIC X(80).
000011 PROCEDURE DIVISION.
000012     OPEN EXTEND FILE-1.
000013     STOP RUN.
```

C3117.cob 12: JMN3117I-S File 'FILE-1' with the LINAGE clause cannot be specified in the EXTEND phrase of the OPEN statement.

## JMN3119I-S

**The @1@ phrase can only be specified for a sequential file other than a print file with a FORMAT clause.**

### Parameter Explanation

@1@ : 'REVERSED', 'WITH NO REWIND' or 'FOR REMOVAL'.

### Example

```
[C3119.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3119.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     ACCESS MODE IS RANDOM
000009     RECORD KEY IS KEY-REC.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD FILE-1.
000013     01 REC-1.
000014     02 KEY-REC PIC XX.
000015     02 FILLER PIC X(78).
000016 PROCEDURE DIVISION.
000017     OPEN INPUT FILE-1 REVERSED.
000018     STOP RUN.
```

C3119.cob 17: JMN3119I-S The REVERSED phrase can only be specified for a sequential file other than a print file with a FORMAT clause.

## JMN3121I-S

**A @1@ phrase can only be specified for a sequential file other than a print file with a FORMAT clause. The @1@ phrase is ignored.**

### Parameter Explanation

@1@ : 'REEL' or 'UNIT'

### Example

```
[C3121.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3121.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     ACCESS MODE IS RANDOM
000009     RECORD KEY IS KEY-REC.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD FILE-1.
000013     01 REC-1.
000014     02 KEY-REC PIC XX.
000015     02 FILLER PIC X(78).
000016 PROCEDURE DIVISION.
000017     CLOSE FILE-1 REEL.
000018     STOP RUN.
```

C3121.cob 17: JMN3121I-S A REEL phrase can only be specified for a sequential file other than a print file with a FORMAT clause. The REEL phrase is ignored.

## JMN3123I-S

**In the USING or GIVING phrase of the MERGE statement, a file cannot be specified more than once. File @1@ is ignored.**

### Parameter Explanation

@1@ : File name.

### Example

```
[C3123.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3123.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO DA-S-SYS001.
000007     SELECT FILE-2 ASSIGN TO DA-S-SYS002.
000008     SELECT FILE-3 ASSIGN TO DA-S-SYS003.
000009     SELECT FILE-4 ASSIGN TO DA-S-SYS004.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 SD FILE-1.
000013     01 REC-1.
000014     02 KEY-1 PIC XX.
000015     02 FILLER PIC X(78).
000016 FD FILE-2 LABEL RECORD STANDARD.
000017     01 REC-2 PIC X(80).
000018 FD FILE-3 LABEL RECORD STANDARD.
000019     01 REC-3 PIC X(80).
```

```

000020 FD FILE-4 LABEL RECORD STANDARD.
000021     01 REC-4 PIC X(80).
000022 PROCEDURE DIVISION.
000023     MERGE FILE-1 ON ASCENDING KEY KEY-1
000024     USING FILE-2 FILE-2
000025     GIVING FILE-4.
000026     STOP RUN.

```

C3123.cob 24: JMN3123I-S In the USING or GIVING phrase of the MERGE statement, a file cannot be specified more than once. File 'FILE-2' is ignored.

## JMN3124I-S

**A file having a record description entry with a CHARACTER TYPE or PRINTING POSITION clause cannot be specified in the USING or GIVING phrase of the @2@ statement. File name @1@ is ignored.**

### Parameter Explanation

@1@ : File name.

@2@ : 'SORT' or 'MERGE'

### Example

```

[C3124.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3124.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO DA-S-SYS001.
000007     SELECT FILE-2 ASSIGN TO DA-S-SYS002.
000008     SELECT FILE-3 ASSIGN TO DA-S-SYS003.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 SD FILE-1 LABEL RECORD IS STANDARD.
000012     01 REC-1.
000013     02 KEY-REC PIC XX.
000014     02 FILLER PIC X(78).
000015 FD FILE-2 LABEL RECORD IS STANDARD.
000016     01 REC-2 PIC N(40) CHARACTER TYPE IS MODE-2.
000017 FD FILE-3 LABEL RECORD IS STANDARD.
000018     01 REC-3 PIC X(80).
000019 PROCEDURE DIVISION.
000020     SORT FILE-1 ON ASCENDING KEY KEY-REC
000021     USING FILE-2
000022     GIVING FILE-3.
000023     STOP RUN.

```

C3124.cob 21: JMN3124I-S A file having a record description entry with a CHARACTER TYPE or PRINTING POSITION clause cannot be specified in the USING or GIVING phrase of the SORT statement. File name 'FILE-2' is ignored.

## JMN3127I-S

**Operand @1@ of the FROM phrase and record-name @2@ cannot occupy the same storage space.**

### Parameter Explanation

@1@ : Identifier of the FROM specification.

@2@ : Record name.

### Example

```

[C3127.cob]
000001 IDENTIFICATION DIVISION.

```

```

000002 PROGRAM-ID. C3127.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009     FD FILE-1.
000010         01 REC-1.
000011             02 REC-1-1 PIC XX.
000012             02 REC-1-2 PIC XX.
000013             02 FILLER PIC X(76).
000014 PROCEDURE DIVISION.
000015     WRITE REC-1 FROM REC-1-2.
000016     STOP RUN.

```

C3127.cob 15: JMN3127I-S Operand 'REC-1-2' of the FROM phrase and record-name 'REC-1' cannot occupy the same storage space.

### JMN3128I-S

**The CONTROL AREA phrase cannot be specified for any file except a communication-file.**

#### Example

```

[C3128.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3128.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO S-SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009     FD FILE-1.
000010         01 REC-1 PIC X(80).
000011 WORKING-STORAGE SECTION.
000012     01 CNTL-DATA PIC X(36).
000013 PROCEDURE DIVISION.
000014     WRITE REC-1 CONTROL AREA IS CNTL-DATA.
000015     STOP RUN.

```

C3128.cob 14: JMN3128I-S The CONTROL AREA phrase cannot be specified for any file except a communication-file.

### JMN3130I-S

**An ADVANCING phrase with a mnemonic-name cannot be specified in the WRITE statement for file @1@ with the LINAGE clause. BEFORE ADVANCING 1 is assumed.**

#### Parameter Explanation

@1@ : File name.

#### Example

```

[C3130.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3130.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006     CHANNEL-01 IS CHN-1.
000007 INPUT-OUTPUT SECTION.
000008 FILE-CONTROL.
000009     SELECT FILE-1 ASSIGN TO S-SYS001.

```

```

000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD FILE-1 LINAGE IS 50 LINES.
000013     01 REC-1 PIC X(121).
000014 PROCEDURE DIVISION.
000015     WRITE REC-1 AFTER ADVANCING CHN-1.
000016     STOP RUN.

```

C3130.cob 15: JMN3130I-S An ADVANCING phrase with a mnemonic-name cannot be specified in the WRITE statement for file 'FILE-1' with the LINAGE clause. BEFORE ADVANCING 1 is assumed.

## JMN3132I-S

**The ADVANCING phrase can only be specified for a sequential file.**

### Example

```

[C3132.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3132.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     ACCESS MODE IS RANDOM
000009     RECORD KEY IS KEY-REC.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD FILE-1.
000013     01 REC-1.
000014     02 KEY-REC PIC XX.
000015     02 FILLER PIC X(78).
000016 PROCEDURE DIVISION.
000017     WRITE REC-1 AFTER ADVANCING 1.
000018     STOP RUN.

```

C3132.cob 17: JMN3132I-S The ADVANCING phrase can only be specified for a sequential file.

## JMN3135I-S

**Operand @1@ of the ADVANCING phrase in the WRITE statement must be an integer item. ADVANCING 1 is assumed.**

### Parameter Explanation

@1@ : Identifier.

### Example

```

[C3135.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3135.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO S-SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD FILE-1.
000010     01 REC-1 PIC X(121).
000011 WORKING-STORAGE SECTION.
000012     77 LCD-1 PIC XX.
000013 PROCEDURE DIVISION.

```

```
000014 WRITE REC-1 AFTER ADVANCING LCD-1.
000015 STOP RUN.
```

C3135.cob 14: JMN3135I-S Operand 'LCD-1' of the ADVANCING phrase in the WRITE statement must be an integer item. ADVANCING 1 is assumed.

## JMN3136I-S

**The integer of the ADVANCING phrase in the WRITE statement must be 0 through 32767. ADVANCING 1 is assumed.**

### Example

```
[C3136.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3136.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO S-SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD FILE-1.
000010     01 REC-1 PIC X(121).
000011 PROCEDURE DIVISION.
000012     WRITE REC-1 AFTER ADVANCING 40000.
000013     STOP RUN.
```

C3136.cob 12: JMN3136I-S The integer of the ADVANCING phrase in the WRITE statement must be 0 through 32767. ADVANCING 1 is assumed.

## JMN3141I-S

**The @1@ clause cannot be specified for @2@.**

### Parameter Explanation

@1@ : 'AT EOP', 'NOT AT EOP', 'INVALID KEY' or 'NOT INVALID KEY'.

@2@ : Organization of file.

### Example

```
[C3141.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3141.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     ACCESS MODE IS RANDOM
000009     RECORD KEY IS KEY-REC.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD FILE-1.
000013     01 REC-1.
000014     02 KEY-REC PIC XX.
000015     02 FILLER PIC X(78).
000016 WORKING-STORAGE SECTION.
000017     77 DATA-1 PIC XX.
000018 PROCEDURE DIVISION.
000019     WRITE REC-1 AT EOP GO TO L1.
```

```
000020     MOVE "AA" TO DATA-1.
000021     LI. STOP RUN.
```

C3141.cob 19: JMN3141I-S The AT EOP clause cannot be specified for indexed file.

## JMN3142I-S

**@1@ @2@ cannot be specified in a REWRITE statement.**

### Parameter Explanation

@1@ : 'Presentation file' or 'Chart file'

@2@ : File name.

### Example

```
[C3142.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3142.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO GS-SYS001
000007     SYMBOLIC DESTINATION IS "PRT".
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD FILE-1.
000011     01 REC-1 PIC X(121).
000012 PROCEDURE DIVISION.
000013     REWRITE REC-1.
000014     STOP RUN.
```

C3142.cob 13: JMN3142I-S Presentation file 'FILE-1' cannot be specified in a REWRITE statement.

## JMN3143I-S

**The NEXT phrase cannot be specified for random access file @1@.**

### Parameter Explanation

@1@ : File name.

### Example

```
[C3143.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3143.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     ACCESS MODE IS RANDOM
000009     RECORD KEY IS KEY-REC.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD FILE-1.
000013     01 REC-1.
000014     02 KEY-REC PIC XX.
000015     02 FILLER PIC X(78).
000016 PROCEDURE DIVISION.
000017     READ FILE-1 NEXT.
000018     STOP RUN.
```



C3143.cob 17: JMN3143I-S The NEXT phrase cannot be specified for random access file 'FILE-1'.

## JMN3144I-S

**Operand @1@ of the INTO phrase and record area cannot occupy the same storage space.**

### Parameter Explanation

@1@ : Identifier of INTO specification.

### Example

```
[C3144.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3144.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009     FD FILE-1.
000010         01 REC-1.
000011         02 REC-1-S PIC X(80).
000012 PROCEDURE DIVISION.
000013     READ FILE-1 INTO REC-1-S.
000014     STOP RUN.
```

C3144.cob 13: JMN3144I-S Operand 'REC-1-S' of the INTO phrase and record area cannot occupy the same storage space.

## JMN3145I-S

**The KEY phrase of the READ statement can only be specified for an indexed file of random access mode.  
The KEY phrase is ignored.**

### Example

```
[C3145.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3145.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     ACCESS MODE IS SEQUENTIAL
000009     RECORD KEY IS KEY-REC.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD FILE-1.
000013     01 REC-1.
000014     02 KEY-REC PIC XX.
000015     02 FILLER PIC X(78).
000016 PROCEDURE DIVISION.
000017     READ FILE-1 KEY IS KEY-REC.
000018     STOP RUN.
```

C3145.cob 17: JMN3145I-S The KEY phrase of the READ statement can only be specified for an indexed file of random access mode.  
The KEY phrase is ignored.

## JMN3146I-S

**Data-item @1@ of the KEY phrase in the READ statement must be specified as a record key or an alternate record key.**

## Parameter Explanation

@1@ : Data name of KEY specification.

## Example

```
[C3146.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3146.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     ACCESS MODE IS RANDOM
000009     RECORD KEY IS KEY-REC.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD FILE-1.
000013     01 REC-1.
000014     02 KEY-REC PIC XX.
000015     02 FILLER PIC X(78).
000016 WORKING-STORAGE SECTION.
000017     77 KEY-DATA PIC XX.
000018 PROCEDURE DIVISION.
000019     READ FILE-1 KEY IS KEY-DATA.
000020     STOP RUN.
```

C3146.cob 19: JMN3146I-S Data-item of the KEY phrase in the READ statement must be specified as a record key or an alternate record key.

## JMN3147I-S

**The @3@ phrase cannot be specified in the READ statement for file @2@ of @1@.**

## Parameter Explanation

@1@ : Access mode.

@2@ : File name.

@3@ : 'AT END', 'NOT AT END', 'INVALID KEY' or 'NOT INVALID KEY'.

## Example

```
[C3147.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3147.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     ACCESS MODE IS RANDOM
000009     RECORD KEY IS KEY-REC.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD FILE-1.
000013     01 REC-1.
000014     02 KEY-REC PIC XX.
000015     02 FILLER PIC X(78).
000016 PROCEDURE DIVISION.
000017     READ FILE-1 AT END GO TO L1.
000018     L1. STOP RUN.
```

C3147.cob 17: JMN3147I-S The AT END phrase cannot be specified in the READ statement for file 'FILE-1' of random access.

### JMN3148I-S

---

**A GO TO statement without a procedure-name must be referred to by an ALTER statement.**

#### Example

```
[C3148.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3148.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 PROCEDURE DIVISION.
000006 P-1.
000007     GO TO .
000008*
000009 END PROGRAM C3148.
```

C3148.cob 7: JMN3148I-S A GO TO statement without a procedure-name must be referred to by an ALTER statement.

### JMN3149I-S

---

**Identifier @1@ of the GO TO DEPENDING ON statement must be an integer item.**

#### Parameter Explanation

@1@ : Identifier.

#### Example

```
[C3149.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3149.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006     77 DP-CTR PIC XX.
000007     77 AA PIC XX.
000008 PROCEDURE DIVISION.
000009     GO TO L1 L2 DEPENDING ON DP-CTR.
000010     L1. MOVE "AA" TO AA.
000011     GO TO L3.
000012     L2. MOVE "BB" TO AA.
000013     L3. STOP RUN.
```

C3149.cob 9: JMN3149I-S Identifier 'DP-CTR' of the GO TO DEPENDING ON statement must be an integer item.

### JMN3150I-S

---

**Paragraph @1@ referred to by the ALTER statement must be a sentence consisting of a single GO TO statement without a DEPENDING ON phrase.**

#### Parameter Explanation

@1@ : Paragraph name.

#### Example

```
[C3150.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3150.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
```

```

000006      77 AA PIC XXX.
000007 PROCEDURE DIVISION.
000008      ALTER L1 TO L2.
000009 L1. MOVE "AAA" TO AA.
000010      GO TO L3.
000011 L2. MOVE "BBB" TO AA.
000012 L3. STOP RUN.

```

C3150.cob 8: JMN3150I-S Paragraph 'L1' referred to by the ALTER statement must be a sentence consisting of a single GO TO statement without a DEPENDING ON phrase.

## JMN3151I-S

### Operand @1@ in the arithmetic expression must be a @2@.

#### Parameter Explanation

@1@ : Identifier or 'literal'

@2@ : 'numeric item' or 'numeric literal'

#### Example

```

[C3151.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3151.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9999.
000007 01 B PIC 9999.
000008 01 C PIC XXXX.
000009 PROCEDURE DIVISION.
000010 P-START.
000011 COMPUTE A = B + C.
000012 COMPUTE A = B + B"10101".
000013 STOP RUN.

```

C3151.cob 11: JMN3151I-S Operand 'C' in the arithmetic expression must be a numeric item.

C3151.cob 12: JMN3151I-S Operand literal in the arithmetic expression must be a numeric literal.

## JMN3152I-S

### Operand @1@ in the boolean expression must be a @2@.

#### Parameter Explanation

@1@ : Identifier or 'literal'

@2@ : 'boolean item' or 'boolean literal'

#### Example

```

[C3152.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3152.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 1111.
000007 01 B PIC 9999.
000008 PROCEDURE DIVISION.
000009 P-START.
000010 COMPUTE A = NOT ( NOT B ).

```

```
000011 COMPUTE A = NOT ( NOT 12345 ).
000012 STOP RUN.
```

C3152.cob 10: JMN3152I-S Operand 'B' in boolean expression must be boolean item.

C3152.cob 11: JMN3152I-S Operand literal in boolean expression must be a boolean literal.

## JMN3153I-S

**Operand @1@ enclosed with parentheses in the expression must be a numeric item or a boolean item.**

### Parameter Explanation

@1@ : Identifier

### Example

```
[C3153.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3153.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9999.
000007 01 B PIC XXXX.
000008 PROCEDURE DIVISION.
000009 P-START.
000010 COMPUTE A = ( B ).
000011 STOP RUN.
```

C3153.cob 10: JMN3153I-S Operand 'B' enclosed with parentheses in the expression must be a numeric item or a boolean item.

## JMN3154I-S

**Data-name @1@ in parentheses for the subscript or reference modifier must be a @2@ which is an integer.**

### Parameter Explanation

@1@ : Identifier or 'literal'

@2@ : 'numeric item' or 'numeric literal'

### Example

```
[C3154.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3154.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9999.
000007 01 B.
000008 02 C PIC 9999 OCCURS 10 TIMES.
000009 01 I PIC 999V999.
000010 PROCEDURE DIVISION.
000011 P-START.
000012 COMPUTE A = C ( I ) + 5.
000013 COMPUTE A = C ( 1.25 ) + 5.
000014 STOP RUN.
```

C3154.cob 12: JMN3154I-S Data-name 'I' in parentheses for the subscript or reference modifier must be a numeric item which is an integer.

C3154.cob 13: JMN3154I-S Data-name literal in parentheses for the subscript or reference modifier must be a numeric literal which is an integer.

## JMN3157I-S

---

**There is no valid data item in the REPLACING phrase of the INITIALIZE statement.**

### Example

```
[C3157.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3157.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC X(10).
000007 01 B PIC 99 VALUE 10.
000008 PROCEDURE DIVISION.
000009 P-START.
000010 INITIALIZE A REPLACING ALPHABETIC BY B.
000011 STOP RUN.
```

C3157.cob 10: JMN3157I-S There is no valid data item in the REPLACING phrase of the INITIALIZE statement.

## JMN3158I-I

---

**There is no item to be initialized by the INITIALIZE statement.**

### Example

```
[C3158.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3158.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC X(10).
000007 PROCEDURE DIVISION.
000008 P-START.
000009 INITIALIZE A REPLACING NUMERIC BY 1
000010 ALPHABETIC BY "A".
000011 STOP RUN.
```

C3158.cob 9: JMN3158I-I There is no item to be initialized by INITIALIZE statement.

## JMN3159I-S

---

**When a conditional expression of a selection subject is specified in the EVALUATE statement, the selection object must be a conditional expression, TRUE, FALSE, or ANY.**

### Example

```
[C3159.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3159.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC X(2).
000007 01 B PIC XX.
000008 01 X PIC X(2).
000009 PROCEDURE DIVISION.
000010 EVALUATE A = B
000011 WHEN A
000012 MOVE 1 TO A.
000013 STOP RUN.
```

C3159.cob 11: JMN3159I-S When conditional expression of a selection subject is specified in the EVALUATE statement, the selection object must be a conditional expression, TRUE, FALSE, or ANY.

## JMN3160I-S

**The KEY IS phrase must be specified in the data description entry of @1@ of the SEARCH ALL statement.**

### Parameter Explanation

@1@ : Identifier

### Example

```
[C3160.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3160.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GRP.
000007     02 TBL OCCURS 10 TIMES INDEXED BY INX.
000008         03 A          PIC X.
000009 01 B          PIC XX.
000010 01 X          PIC X(2).
000011 PROCEDURE DIVISION.
000012     SEARCH ALL TBL
000013         WHEN A(INX) = "Z"
000014             MOVE 1 TO B.
000015     STOP RUN.
```

C3160.cob 12: JMN3160I-S The KEY IS phrase must be specified in the data description entry of 'TBL' of the SEARCH ALL statement.

## JMN3161I-S

**The data name in the WHEN phrase of the SEARCH ALL statement must be specified in the KEY IS phrase of the data description entry of @1@.**

### Parameter Explanation

@1@ : Identifier

### Example

```
[C3161.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3161.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GRP1.
000007     02 TBL1 OCCURS 10 TIMES ASCENDING KEY IS K1
000008         INDEXED BY INX1.
000009         03 K1          PIC X.
000010 01 GRP2.
000011     02 TBL2 OCCURS 10 TIMES ASCENDING KEY IS K2
000012         INDEXED BY INX2.
000013         03 K2          PIC X.
000014 01 A          PIC XX.
000015 01 B          PIC X(2).
000016 PROCEDURE DIVISION.
000017     SEARCH ALL TBL1
000018         WHEN K2(INX1) = "Y"
000019             MOVE 1 TO A.
000020     STOP RUN.
```

C3161.cob 18: JMN3161I-S The data name in the WHEN phrase of the SEARCH ALL statement must be specified in the KEY IS phrase of the data description entry of 'TBL1'.

## JMN3162I-S

**The rightmost subscript of the WHEN phrase in the SEARCH ALL statement must be the first index-name related to @2@.**

### Parameter Explanation

@2@ : Identifier

### Example

```
[C3162.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3162.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GRP.
000007     02 TBL OCCURS 5 TIMES.
000008         03 TBL-2 OCCURS 5 TIMES ASCENDING KEY IS A
000009             INDEXED BY INX1 INX2.
000010         04 A PIC 9.
000011 PROCEDURE DIVISION.
000012     SEARCH ALL TBL-2
000013     WHEN A(3, INX2) = 1
000014     STOP RUN.
```

C3162.cob 13: JMN3162I-S The rightmost subscript of the WHEN phrase in the SEARCH ALL statement must be the first index-name related to 'TBL-2'.

## JMN3163I-S

**All data-names or condition-names specified in the KEY IS phrase must be specified as data-names or condition-names in the WHEN phrase of the SEARCH ALL statement.**

### Example

```
[C3163.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3163.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GRP.
000007     02 TBL OCCURS 10 TIMES ASCENDING KEY IS A B C
000008             INDEXED BY INX.
000009         03 A PIC 9.
000010         03 B PIC X.
000011         03 C PIC X.
000012 PROCEDURE DIVISION.
000013     SEARCH ALL TBL
000014     WHEN C(INX) = "A"
000015     AND A(INX) = 9
000016     STOP RUN.
```

C3163.cob 14: JMN3163I-S All data-names or condition-names specified in the KEY IS phrase must be specified as data-names or condition-names in the WHEN phrase of the SEARCH ALL statement.



## Explanation

You don't have to specify all the KEY IS items of a table definition in the WHEN phrase of the SEARCH ALL statement, but you cannot omit higher level keys when including lower keys. For example, if the key definition has "KEY IS A B C" then the WHEN phrase can reference: only A; A and B; and A, B and C; but it cannot just have A and C or just B or C.

## JMN3164I-S

---

**@1@ @2@ cannot be specified in a DELETE statement.**

### Parameter Explanation

@1@ : Organization of file.

@2@ : File name.

### Example

```
[C3164.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3164.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO S-SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009     FD FILE-1.
000010     01 REC-1 PIC X(80).
000011 PROCEDURE DIVISION.
000012     DELETE FILE-1.
000013     STOP RUN.
```

C3164.cob 12: JMN3164I-S Sequential file 'FILE-1' cannot be specified in DELETE statement.

## JMN3165I-S

---

**For sequential access to file @1@, the @2@ phrase cannot be specified in a DELETE statement.**

### Parameter Explanation

@1@ : File name.

@2@ : 'INVALID KEY' or 'NOT INVALID KEY'

### Example

```
[C3165.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3165.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO S-SYS001
000007     ORGANIZATION IS INDEXED
000008     ACCESS MODE IS SEQUENTIAL
000009     RECORD KEY IS REC-KEY.
000010 DATA DIVISION.
000011 FILE SECTION.
000012     FD FILE-1.
000013     01 REC-1.
000014     02 REC-KEY PIC XX.
000015     02 FILLER PIC XX.
000016 PROCEDURE DIVISION.
000017     DELETE FILE-1 INVALID KEY GO TO L1.
000018     L1. STOP RUN.
```

C3165.cob 17: JMN3165I-S For sequential access to file 'FILE-1', the INVALID KEY phrase cannot be specified in a DELETE statement.

## JMN3166I-S

**@1@ @2@ @3@ cannot be specified in a START statement.**

### Parameter Explanation

@1@ : Access mode.

@2@ : Organization of file.

@3@ : File name.

### Example

```
[C3166.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3166.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009     FD FILE-1.
000010     01 REC-1 PIC X(80).
000011 PROCEDURE DIVISION.
000012     START FILE-1.
000013     STOP RUN.
```

C3166.cob 12: JMN3166I-S Sequential access sequential file 'FILE-1' cannot be specified in a START statement.

## JMN3169I-S

**An item which is not specified in a RELATIVE KEY clause cannot be specified in a KEY phrase of a START statement with a relative file.**

### Example

```
[C3169.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3169.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001
000007     ORGANIZATION IS RELATIVE
000008     ACCESS MODE IS SEQUENTIAL
000009     RELATIVE KEY IS REL-KEY.
000010 DATA DIVISION.
000011 FILE SECTION.
000012     FD FILE-1.
000013     01 REC-1 PIC X(80).
000014 WORKING-STORAGE SECTION.
000015     77 REL-KEY PIC 99.
000016     77 KEY-DATA PIC XX.
000017 PROCEDURE DIVISION.
000018     START FILE-1 KEY IS = KEY-DATA.
000019     STOP RUN.
```

C3169.cob 18: JMN3169I-S An item which is not specified in a RELATIVE KEY clause cannot be specified in a KEY phrase of a START statement with a relative file.

## JMN3170I-S

An item which is not specified in a RECORD KEY clause or an ALTERNATE RECORD KEY clause, or an item which is subordinate to it, cannot be specified in a KEY phrase of a START statement with an indexed file.

### Example

```
[C3170.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3170.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     ACCESS MODE IS SEQUENTIAL
000009     RECORD KEY IS KEY-REC.
000010 DATA DIVISION.
000011 FILE SECTION.
000012     FD FILE-1.
000013         01 REC-1.
000014         02 KEY-REC PIC XX.
000015         02 FILLER PIC X(78).
000016 WORKING-STORAGE SECTION.
000017     77 KEY-DATA PIC XX.
000018 PROCEDURE DIVISION.
000019     START FILE-1 KEY IS = KEY-DATA.
000020     STOP RUN.
```

C3170.cob 19: JMN3170I-S An item which is not specified in a RECORD KEY clause or an ALTERNATE RECORD KEY clause, or an item which is subordinate to it, cannot be specified in a KEY phrase of a START statement with an indexed file.

## JMN3175I-S

The USAGE of sending item @1@ in the STRING statement must be DISPLAY.

### Parameter Explanation

@1@ : Identifier

### Example

```
[C3175.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3175.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 AN-1 PIC 9(2) BINARY.
000006 01 AN-2 PIC X(6).
000007 01 AN-3 PIC X(10).
000008 PROCEDURE DIVISION.
000009 P-START.
000010     STRING AN-1 DELIMITED BY AN-2 INTO AN-3.
000011     STOP RUN.
```

C3175.cob 10: JMN3175I-S The USAGE of sending item 'AN-1' in the STRING statement must be DISPLAY.

## JMN3181I-S

A key item cannot be specified in both the left and right parts of a conditional expression in a WHEN phrase or an AND phrase in a SEARCH ALL statement.

## Example

```
[C3181.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3181.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GRP.
000007     02 TBL OCCURS 5 TIMES ASCENDING KEY IS A B
000008                                 INDEXED BY IX.
000009     03 A     PIC 9.
000010     03 B     PIC 9.
000011 PROCEDURE DIVISION.
000012     SEARCH ALL TBL
000013     WHEN A (IX) = B (IX)
000014     STOP RUN.
```

C3181.cob 13: JMN3181I-S A key item cannot be specified in both the left and right parts of a conditional expression in a WHEN phrase or an AND phrase in a SEARCH ALL statement.

## JMN3182I-W

**An ADVANCING PAGE phrase and an END-OF-PAGE phrase cannot both be specified in the same WRITE statement. It is accepted as written: the compiler will generate code for both ADVANCING PAGE and END-OF-PAGE.**

## Example

```
[C3182.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3182.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO S-SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009     FD FILE-1 LINAGE IS 50 LINES.
000010     01 REC-1 PIC X(80).
000011 PROCEDURE DIVISION.
000012     WRITE REC-1 AFTER ADVANCING PAGE AT EOP GO TO L1.
000013     L1. STOP RUN.
```

C3182.cob 12: JMN3182I-W An ADVANCING PAGE phrase and an END-OF-PAGE phrase cannot both be specified in the same WRITE statement. It is accepted as written: the compiler will generate code for both ADVANCING PAGE and END-OF-PAGE.

## JMN3184I-S

**A national item or a national edited item with a CHARACTER TYPE phrase or a file which includes an item with a PRINTING POSITION phrase cannot be specified in a REWRITE statement.**

## Example

```
[C3184.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3184.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO S-SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009     FD FILE-1.
```

```

000010      01 REC-1.
000011      02 REC-1-1 PIC N(5) MODE-1.
000012      02 FILLER PIC X(70).
000013 PROCEDURE DIVISION.
000014      REWRITE REC-1.
000015 END PROGRAM C3184.

```

C3184.cob 14: JMN3184I-S A national item or a national edited item with a CHARACTER TYPE phrase or a file which includes an item with a PRINTING POSITION phrase cannot be specified in a REWRITE statement.

## JMN3188I-S

**Inspected item @1@ in the INSPECT statement must be an item with a USAGE of DISPLAY.**

### Parameter Explanation

@1@ : Identifier

### Example

```

[C3188.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3188.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006      77 ID1 PIC S9(9) BINARY.
000007      77 CTR PIC 99.
000008 PROCEDURE DIVISION.
000009      INSPECT ID1 TALLYING CTR FOR CHARACTERS.
000010 END PROGRAM C3188.

```

C3188.cob 9: JMN3188I-S Inspected item 'ID1' in the INSPECT statement must be an item with a USAGE of DISPLAY.

## JMN3189I-S

**Tallying item @1@ in the INSPECT statement must be a numeric item.**

### Parameter Explanation

@1@ : Identifier

### Example

```

[C3189.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3189.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006      77 ID1 PIC X(20).
000007      77 CTR PIC XX.
000008 PROCEDURE DIVISION.
000009      INSPECT ID1 TALLYING CTR FOR CHARACTERS.
000010 END PROGRAM C3189.

```

C3189.cob 9: JMN3189I-S Tallying item 'CTR' in the INSPECT statement must be a numeric item.

## JMN3190I-S

**For a CHARACTERS phrase in an INSPECT statement, the length of the replaced character and scope specifying character must be 1. The statement is ignored.**

## Example

```
[C3190.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3190.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 77 ID1 PIC X(20).
000007 PROCEDURE DIVISION.
000008     INSPECT ID1 REPLACING CHARACTERS BY "01".
000009 END PROGRAM C3190.
```

C3190.cob 8: JMN3190I-S For a CHARACTERS phrase in an INSPECT statement, the length of the replaced character and scope specifying character must be 1. The statement is ignored.

## JMN3191I-S

**For a REPLACING phrase in an INSPECT statement, the lengths of the replacing character and replaced character must be equal.**

## Example

```
[C3191.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3191.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 77 ID1 PIC X(20).
000007 PROCEDURE DIVISION.
000008     INSPECT ID1 REPLACING ALL "0" BY "11".
000009 END PROGRAM C3191.
```

C3191.cob 8: JMN3191I-S For a REPLACING phrase in an INSPECT statement, the lengths of the replacing character and replaced character must be equal.

## JMN3192I-S

**For a CONVERTING phrase in an INSPECT statement, if the converted character is a national or a national edited item, the converting character and the converted character cannot exceed 65536 in length. Non-national items cannot exceed 256 in length.**

## Example

```
[C3192.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3192.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 77 ID1 PIC X(400).
000007 77 CV-CHAR1 PIC X(300).
000008 77 CV-CHAR2 PIC X(300).
000009 PROCEDURE DIVISION.
000010     INSPECT ID1 CONVERTING CV-CHAR1 TO CV-CHAR2.
000011 END PROGRAM C3192.
```

C3192.cob 10: JMN3192I-S For a CONVERTING phrase in an INSPECT statement, if the converted character is a national or a national edited item, the converting character and the converted character cannot exceed 65536 in length. Non-national items cannot exceed 256 in length.

C3192.cob 10: JMN3192I-S For a CONVERTING phrase in an INSPECT statement, if the converted character is a national or a national edited item, the converting character and the converted character cannot exceed 65536 in length. Non-national items cannot exceed 256 in length.

### JMN3193I-S

**For a CONVERTING phrase in an INSPECT statement, the lengths of the converting character and the converted character must be equal.**

#### Example

```
[C3193.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3193.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 77 ID1 PIC X(20).
000007 77 CV-CHAR1 PIC XX.
000008 77 CV-CHAR2 PIC X.
000009 PROCEDURE DIVISION.
000010 INSPECT ID1 CONVERTING CV-CHAR1 TO CV-CHAR2.
000011 END PROGRAM C3193.
```

C3193.cob 10: JMN3193I-S For a CONVERTING phrase in an INSPECT statement, the lengths of the converting character and the converted character must be equal.

### JMN3194I-S

**In the INSPECT statement, items other than the tallying item and the inspecting item must all be national items or national edited items, or non-national items.**

#### Example

```
[C3194.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3194.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 77 ID1 PIC X(20).
000007 77 REP-CHAR PIC N.
000008 PROCEDURE DIVISION.
000009 INSPECT ID1 REPLACING CHARACTERS BY REP-CHAR.
000010 END PROGRAM C3194.
```

C3194.cob 9: JMN3194I-S In the INSPECT statement, items other than the tallying item and the inspecting item must all be national items or national edited items, or non-national items.

### JMN3195I-S

**Items other than the item being inspected and the tallying item in INSPECT statement must have a USAGE of DISPLAY.**

#### Example

```
[C3195.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3195.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 TAL-CHAR PIC S99 BINARY.
000007 77 ID1 PIC X(20).
```

```

000008 77 CTR PIC 99 PACKED-DECIMAL.
000009 PROCEDURE DIVISION.
000010 INSPECT ID1 TALLYING CTR FOR ALL TAL-CHAR.
000011 END PROGRAM C3195.

```

C3195.cob 10: JMN3195I-S Items other than the item being inspected and the tallying item in INSPECT statement must have a USAGE of DISPLAY.

## JMN3196I-S

**@1@ @2@ cannot be specified to a USING phrase in a CALL statement.**

### Parameter Explanation

@1@ : Organization of file.

@2@ : File name.

### Example

```

[C3196.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3196.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT FILE001 ASSIGN SYS010-DA-OUTFILE
000007 ORGANIZATION IS RELATIVE
000008 ACCESS MODE IS SEQUENTIAL.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD FILE001 LABEL RECORD STANDARD.
000012 01 LINE-REC PIC X(77).
000013 01 CTL-REC PIC X(61).
000014 PROCEDURE DIVISION.
000015 OPEN OUTPUT FILE001.
000016 CALL "EXTPROG" USING BY CONTENT FILE001.
000017 CLOSE FILE001.
000018 END PROGRAM C3196.

```

C3196.cob 16: JMN3196I-S Relative file 'FILE001' cannot be specified to a USING phrase in a CALL statement.

## JMN3198I-S

**@1@ in the SEARCH ALL statement cannot be reference modified.**

### Parameter Explanation

@1@ : Key data item.

### Example

```

[C3198.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3198.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GR.
000007 02 TBL OCCURS 10 TIMES ASCENDING KEY IS KEY-1
000008 INDEXED BY INX.
000009 03 KEY-1 PIC X(5).
000010 PROCEDURE DIVISION.
000011 SEARCH ALL TBL

```



```

000012     WHEN KEY-1(INX)(1 : 3) = "AAA"
000013     STOP RUN.

```

C3198.cob 12: JMN3198I-S 'KEY-1' in the SEARCH ALL statement cannot be reference modified.

## JMN3199I-S

**In the INSPECT statement, all items being inspected must be of the same encoding scheme, except for the TALLYING item.**

### Example

```

[C3199.cob]
000001 @OPTIONS ENCODE(UTF8,UTF16,LE)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3199.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006     SPECIAL-NAMES.
000007         ALPHABET U16L FOR NATIONAL UTF16LE
000008         ALPHABET U32L FOR NATIONAL UTF32LE
000009     .
000010 DATA DIVISION.
000011 WORKING-STORAGE SECTION.
000012     77 ID1          PIC N ENCODING U16L.
000013     77 REP-CHAR   PIC N ENCODING U32L.
000014 PROCEDURE DIVISION.
000015     INSPECT ID1 REPLACING CHARACTERS BY REP-CHAR.
000016 END PROGRAM C3199.

```

C3199.cob 15: JMN3199I-S In the INSPECT statement, all items being inspected must be of the same encoding scheme, except for the TALLYING item.

## JMN3200I-S

**@2@ @3@ with access mode @1@ cannot be specified for a @4@ phrase of an OPEN statement.**

### Parameter Explanation

- @1@ : Access mode.
- @2@ : Organization of file.
- @3@ : File name.
- @4@ : 'INPUT', 'OUTPUT', 'I-O' or 'EXTEND'.

### Example

```

[C3200.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3200.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     ACCESS MODE IS RANDOM
000009     RECORD KEY IS KEY-REC.
000010 DATA DIVISION.
000011 FILE SECTION.
000012     FD FILE-1.
000013     01 REC-1.
000014     02 KEY-REC PIC XX.
000015     02 FILLER  PIC X(78).
000016 PROCEDURE DIVISION.

```

```
000017 OPEN EXTEND FILE-1.
000018 STOP RUN.
```

C3200.cob 17: JMN3200I-S Indexed file 'FILE-1' with access mode random access cannot be specified for a EXTEND phrase of an OPEN statement.

## JMN3202I-S

**File @2@ cannot be specified in the @1@ statement more than once. Only the first specification is accepted.**

### Parameter Explanation

@1@ : 'OPEN' or 'CLOSE'.

@2@ : File name.

### Example

```
[C3202.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3202.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001.
000007     SELECT FILE-2 ASSIGN TO SYS002.
000008 DATA DIVISION.
000009 FILE SECTION.
000010     FD FILE-1.
000011     01 REC-1 PIC X(80).
000012     FD FILE-2.
000013     01 REC-2 PIC X(80).
000014 PROCEDURE DIVISION.
000015     OPEN INPUT FILE-1 FILE-2
000016         OUTPUT FILE-1.
000017     STOP RUN.
```

C3202.cob 16: JMN3202I-S File 'FILE-1' cannot be specified in the OPEN statement more than once. Only the first specification is accepted.

## JMN3203I-I

**(CONF) A 'WRITE' statement with an ADVANCING phrase and a WRITE statement with no specification are coded for the same file. 'AFTER ADVANCING 1' is added to the WRITE statement without an ADVANCING phrase.**

### Example

```
[C3203.cob]
000001 @OPTIONS CONF(68)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3203.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007     SELECT FILE-1 ASSIGN TO S-SYS001.
000008 DATA DIVISION.
000009 FILE SECTION.
000010     FD FILE-1.
000011     01 REC-1 PIC X(80).
000012 PROCEDURE DIVISION.
000013     WRITE REC-1.
```

```
000014 WRITE REC-1 AFTER ADVANCING 1 LINE.
000015 STOP RUN.
```

C3203.cob 13: JMN3203I-I (CONF) A 'WRITE' statement with an ADVANCING phrase and a WRITE statement with no specification are coded for the same file. 'AFTER ADVANCING 1' is added to the WRITE statement without an ADVANCING phrase.

### JMN3207I-I

**(CONF) A 'DELIMITED BY' phrase with 'ALL' and a 'DELIMITER IN' phrase are both specified. If there is a string of delimiters in the sending item, one delimiter is moved to the item of 'DELIMITER IN' phrase.**

#### Example

```
[C3207.cob]
000001 @OPTIONS CONF(68)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3207.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 A PIC X(10) VALUE "ABC/*/*DEF".
000008 01 B PIC X(5).
000009 01 C PIC X(5).
000010 PROCEDURE DIVISION.
000011 P-START.
000012 UNSTRING A DELIMITED BY ALL "/*"
000013 INTO B DELIMITER IN C.
```

C3207.cob 12: JMN3207I-I (CONF) A 'DELIMITED BY' phrase with 'ALL' and a 'DELIMITER IN' phrase are both specified. If there is a string of delimiters in the sending item, one delimiter is moved to the item of 'DELIMITER IN' phrase.

### JMN3218I-S

**A 'RELATIVE KEY' clause must be specified for relative file @1@.**

#### Parameter Explanation

@1@ : File name.

#### Example

```
[C3218.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3218.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT FILE-1 ASSIGN TO SYS001
000007 ORGANIZATION IS RELATIVE
000008 ACCESS MODE IS SEQUENTIAL.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD FILE-1.
000012 01 REC-1 PIC X(80).
000013 PROCEDURE DIVISION.
000014 OPEN INPUT FILE-1.
000015 START FILE-1.
000016 CLOSE FILE-1.
000017 STOP RUN.
```

C3218.cob 15: JMN3218I-S A 'RELATIVE KEY' clause must be specified for relative file 'FILE-1'.

### JMN3219I-I

---

**(CONF) The order of increment for an identifier in a PERFORM statement is as follows. (1) The present value of the 'BY' phrase is added to the identifier of the VARYING phrase. (2) The identifier of the 'AFTER' phrase is set to the present value of the 'FROM' phrase.**

Example

```
[C3219.cob]
000001 @OPTIONS CONF(74)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3219.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 A PIC 9(2) BINARY.
000008 01 B PIC 9(2) BINARY.
000009 01 C PIC 9(2) BINARY.
000010 01 X PIC 9(2) BINARY.
000011 01 Y PIC 9(2) BINARY.
000012 01 Z PIC 9(2) BINARY.
000013 PROCEDURE DIVISION.
000014 PERFORM L1 VARYING A FROM B BY C UNTIL A = B
000015 AFTER X FROM Y BY Z UNTIL X = Y.
000016 L1.
000017 STOP RUN.
```

C3219.cob 15: JMN3219I-I (CONF) The order of increment for an identifier in a PERFORM statement is as follows. (1) The present value of the 'BY' phrase is added to the identifier of the VARYING phrase. (2) The identifier of the 'AFTER' phrase is set to the present value of the 'FROM' phrase.

### JMN3222I-I

---

**(CONF) An alphabetic check is specified. Lowercase alphabetic characters are considered to belong to the alphabetic class.**

Example

```
[C3222.cob]
000001 @OPTIONS CONF(74)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3222.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 A PIC AA.
000008 PROCEDURE DIVISION.
000009 IF A IS ALPHABETIC DISPLAY "CONF-OK"
000010 ELSE DISPLAY "CONF-NG".
000011 STOP RUN.
```

C3222.cob 9: JMN3222I-I (CONF) An alphabetic check is specified. Lowercase alphabetic characters are considered to belong to the alphabetic class.

### JMN3223I-I

---

**(CONF) An item subordinate to a FILLER item satisfies the CORRESPONDING phrase in the @1@ statement. It is assumed to be a corresponding item.**

Parameter Explanation

@1@ : MOVE, ADD or SUBTRACT

### JMN3226I-I

---

**(CONF) Numeric item @1@ with a 'P' on the left of the decimal point is compared with a nonnumeric operand. A numeric item without a 'P' on the left of decimal-point is assumed.**

**Parameter Explanation**

@1@ : Identifier.

**Example**

```
[C3226.cob]
000001 @OPTIONS CONF(74),LANGVL(85)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3226.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 A PIC 999PP.
000008 PROCEDURE DIVISION.
000009 MOVE 12345 TO A.
000010 IF "123" = A THEN
000011     DISPLAY "CONF-OK"
000012 ELSE
000013     DISPLAY "CONF-NG"
000014 END-IF
000015 END PROGRAM C3226.
```

C3226.cob 10: JMN3226I-I (CONF) Numeric item 'A' with a 'P' on the left of the decimal point is compared with a nonnumeric operand. A numeric item without a 'P' on the left of decimal-point is assumed.

**JMN3229I-S**

---

**Item @1@ including an item with a CHARACTER TYPE phrase or PRINTING POSITION phrase specified in a 'FROM' phrase in a WRITE statement must not have a reference modifier.**

**Parameter Explanation**

@1@ : Identifier of FROM specification.

**Example**

```
[C3229.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3229.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO S-SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD FILE-1.
000010     01 REC-1 PIC X(80).
000011 WORKING-STORAGE SECTION.
000012     01 DATA-1.
000013         02 DATA-1-1 PIC X(10).
000014         02 DATA-1-2 PIC N(10) CHARACTER TYPE IS MODE-1.
000015     77 NN1 PIC 99.
000016     77 NN2 PIC 99.
000017 PROCEDURE DIVISION.
000018     OPEN OUTPUT FILE-1.
000019     WRITE REC-1 FROM DATA-1(NN1:NN2).
000020     CLOSE FILE-1.
000021     STOP RUN.
```

C3229.cob 19: JMN3229I-S Item 'DATA-1' including an item with a CHARACTER TYPE phrase or PRINTING POSITION phrase specified in a 'FROM' phrase in a WRITE statement must not have a reference modifier.

## JMN3231I-S

**@1@ (@2@) and @3@ (@4@) cannot be compared.**

### Parameter Explanation

@1@ : Identifier or special register.

@2@ : Data type.

@3@ : Identifier or special register.

@4@ : Data type.

### Example

```
[C3231.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3231.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC N(10).
000007 01 B PIC X(20).
000008 PROCEDURE DIVISION.
000009 P-START.
000010 IF A = B STOP RUN.
```

C3231.cob 10: JMN3231I-S 'A' (national) and 'B' (alphanumeric) cannot be compared.

## JMN3236I-S

**The record length of file @3@ specified in the @2@ phrase of the @1@ statement cannot exceed the maximum record length of the sort-merge file, and cannot be less than the sort-merge file minimum record length.**

### Parameter Explanation

@1@ : 'SORT' or 'MERGE'

@2@ : 'USING' or 'GIVING'

@3@ : File name.

### Example

```
[C3236.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3236.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT US-FILE ASSIGN TO SYS001-DA-S-SYS001.
000007     SELECT GV-FILE ASSIGN TO SYS002-DA-S-SYS002.
000008     SELECT SD-FILE ASSIGN TO SYS003-DA-S-SYS003.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD US-FILE.
000012 01 US-RECL PIC X(100).
000013 FD GV-FILE.
000014 01 GV-RECL PIC X(75).
000015 SD SD-FILE.
000016 01 SD-REC.
000017     02 SD-KEY1 PIC X(5).
000018     02 FILLER PIC X(75).
000019 PROCEDURE DIVISION.
```

```

000020     SORT SD-FILE ASCENDING KEY SD-KEY1
000021         USING    US-FILE
000022         GIVING   GV-FILE.
000023     STOP RUN.

```

C3236.cob 20: JMN3236I-S The record length of file 'US-FILE' specified in the USING phrase of the SORT statement cannot exceed the maximum record length of the sort-merge file, and cannot be less than the sort-merge file minimum record length.

### JMN3238I-S

**Data item @2@ of the KEY phrase in the @1@ statement can be any fixed-length item except internal boolean or external boolean without subscripting.**

#### Parameter Explanation

@1@ : SORT or MERGE

@2@ : Identifier

### JMN3240I-S

**@1@ and @2@ (@3@) cannot be compared.**

#### Parameter Explanation

@1@ : 'arithmetic expression', 'numeric literal', 'nonnumeric literal', 'national literal', 'boolean literal' or name of figurative constant.

@2@ : Identifier, special register or index-name.

@3@ : Data type.

#### Example

```

[C3240.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    C3240.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01  A      PIC S9(3) PACKED-DECIMAL.
000007 PROCEDURE DIVISION.
000008 P-START.
000009     IF "AB" = A STOP RUN.

```

C3240.cob 9: JMN3240I-S Nonnumeric literal and 'A' (internal decimal) cannot be compared.

### JMN3241I-S

**@1@ (@2@) and @3@ cannot be compared.**

#### Parameter Explanation

@1@ : Identifier, special register or index-name.

@2@ : Data type.

@3@ : 'arithmetic expression', 'numeric literal', 'nonnumeric literal', 'national literal', 'boolean literal' or name of figurative constant.

#### Example

```

[C3241.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    C3241.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01  A      PIC S9(3) PACKED-DECIMAL.

```

```
000007 PROCEDURE DIVISION.  
000008 P-START.  
000009     IF A = "AB" STOP RUN.
```

C3241.cob 9: JMN3241I-S 'A' (internal decimal) and nonnumeric literal cannot be compared.

## JMN3242I-S

### @1@ and @2@ (@3@) cannot be compared.

#### Parameter Explanation

@1@ : 'Numeric literal', 'Nonnumeric literal', 'National literal', 'ZERO(S,ES)' or 'QUOTE(S)'.

@2@ : Identifier or special register.

@3@ : Data type.

#### Example

```
[C3242.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C3242.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01 A PIC N(10).  
000007 PROCEDURE DIVISION.  
000008 P-START.  
000009     IF "AB" = A STOP RUN.
```

C3242.cob 9: JMN3242I-S Nonnumeric literal and 'A' (national) cannot be compared.

## JMN3243I-S

### @1@ (@2@) and @3@ cannot be compared.

#### Parameter Explanation

@1@ : Identifier or special register.

@2@ : Data type.

@3@ : 'numeric literal', 'nonnumeric literal', 'national literal', 'ZERO(S,ES)' or 'QUOTE(S)'.

#### Example

```
[C3243.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C3243.  
000003 ENVIRONMENT DIVISION.  
000004 DATA DIVISION.  
000005 WORKING-STORAGE SECTION.  
000006 01 A PIC N(10).  
000007 PROCEDURE DIVISION.  
000008 P-START.  
000009     IF A = "AB" STOP RUN.
```

C3243.cob 9: JMN3243I-S 'A' (national) and nonnumeric literal cannot be compared.

## JMN3244I-S

### @1@ and @2@ cannot be compared.

#### Parameter Explanation

@1@ : 'Arithmetic expression', 'Nonnumeric literal', 'National literal', 'Boolean literal' or name of figurative constant(excluded ZERO).



@2@ : 'arithmetic expression', 'nonnumeric literal', 'national literal', 'boolean literal' or name of figurative constant(excluded ZERO).

### Example

```
[C3244.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3244.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC S9(3) PACKED-DECIMAL.
000007 PROCEDURE DIVISION.
000008 P-START.
000009 IF A + 10 = "AB" STOP RUN.
```

C3244.cob 9: JMN3244I-S Arithmetic expression and nonnumeric literal cannot be compared.

### JMN3245I-W

**The computation results in zero being raised to the power of a negative integer literal. The value zero comes from a numeric literal with value 0, the figurative constant ZERO, or a computation in which no significant digits will reach the intermediate result. The result is assumed to be zero.**

### Example

```
[C3245.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3245.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC S99.
000007 PROCEDURE DIVISION.
000008 COMPUTE A = 0 ** -5.
000009 END PROGRAM C3245.
```

C3245.cob 8: JMN3245I-W The computation results in zero being raised to the power of a negative integer literal. The value zero comes from a numeric literal with value 0, the figurative constant ZERO, or a computation in which no significant digits will reach the intermediate result. The result is assumed to be zero.

### JMN3246I-W

**The integer exponent is greater than 9 digits. The exponent is assumed to be the 9 low order digits.**

### Example

```
[C3246.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3246.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC S9(18).
000007 01 B PIC S9(3).
000008 01 C PIC S9(12).
000009 PROCEDURE DIVISION.
000010 COMPUTE A = B ** C.
000011 END PROGRAM C3246.
```

C3246.cob 10: JMN3246I-W The integer exponent is greater than 9 digits. The exponent is assumed to be the 9 low order digits.

### JMN3248I-S

---

**File @1@ with the RECORD CONTAINS 0 CHARACTERS clause cannot be specified in an OPEN statement with an OUTPUT phrase.**

Parameter Explanation

@1@ : File name.

Example

```
[C3248.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3248.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 LINE SEQUENTIAL ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009     FD FILE-1 RECORD CONTAINS 0 CHARACTERS.
000010     01 REC-1 PIC X(80).
000011 PROCEDURE DIVISION.
000012     OPEN OUTPUT FILE-1.
000013     STOP RUN.
```

C3248.cob 12: JMN3248I-S File 'FILE-1' with the RECORD CONTAINS 0 CHARACTERS clause cannot be specified in an OPEN statement with an OUTPUT phrase.

**JMN3249I-S**

---

**Key item @1@ and the comparison object in the SEARCH ALL statement cannot be boolean items (literal).**

Parameter Explanation

@1@ : Data name

Example

```
[C3249.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3249.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 TBL.
000007 02 X OCCURS 5 TIMES ASCENDING KEY IS A
000008     INDEXED BY IX1.
000009 03 A PIC 9(2).
000010 01 B PIC 1(2).
000011 PROCEDURE DIVISION.
000012     SEARCH ALL X
000013     WHEN A(IX1) = B
000014     CONTINUE
000015     END-SEARCH.
000016 END PROGRAM C3249.
```

C3249.cob 13: JMN3249I-S Key item 'A' and the comparison object in the SEARCH ALL statement cannot be boolean items (literal).

**JMN3250I-S**

---

**An item with a reference modifier cannot be specified in a @1@ statement with a CORRESPONDING phrase.**

Parameter Explanation

@1@ : MOVE, ADD or SUBTRACT.

## Example

```
[C3250.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3250.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 AA.
000008     02 CC-1     PIC X(4).
000009     02 CC-2     PIC X(4).
000010 01 BB.
000011     02 CC-1     PIC X(4).
000012     02 CC-2     PIC X(4).
000013 PROCEDURE DIVISION.
000014 P-START.
000015     ADD CORR AA(1:4) TO BB.
000016     STOP RUN.
```

C3250.cob 15: JMN3250I-S An item with a reference modifier cannot be specified in a ADD statement with a CORRESPONDING phrase.

## JMN3259I-S

**The record length of the sort-merge file specified in the @1@ statement must be less than or equal to the maximum record length of file @3@ specified in the @2@ phrase, and greater than or equal to its minimum record length.**

### Parameter Explanation

@1@ : SORT or MERGE.

@2@ : USING or GIVING.

@3@ : File name.

## Example

```
[C3259.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3259.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT US-FILE  ASSIGN TO SYS001-DA-S-SYS001.
000007     SELECT GV-FILE  ASSIGN TO SYS002-DA-S-SYS002.
000008     SELECT SD-FILE  ASSIGN TO SYS003-DA-S-SYS003.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD  US-FILE.
000012 01 US-RECL  PIC X(80).
000013 FD  GV-FILE.
000014 01 GV-RECL  PIC X(75).
000015 SD  SD-FILE.
000016 01 SD-REC.
000017     02 SD-KEY1  PIC X(5).
000018     02 FILLER   PIC X(75).
000019 PROCEDURE DIVISION.
000020     SORT SD-FILE ASCENDING KEY SD-KEY1
000021         USING  US-FILE
000022         GIVING GV-FILE.
000023     STOP RUN.
```

C3259.cob 20: JMN3259I-S The record length of the sort-merge file specified in the SORT statement must be less than or equal to the maximum record length of file 'GV-FILE' specified in the GIVING phrase, and greater than or equal to its minimum record length.

## JMN3262I-I

**(CONF) WRITE statements without ADVANCING phrases are specified for files with LINAGE clauses. 'AFTER ADVANCING 1' is assumed.**

### Example

```
[C3262.cob]
000001 @OPTIONS CONF(V10)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3262.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007     SELECT FILE-1  ASSIGN TO S-SYS001.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD  FILE-1 LINAGE IS 50 LINES.
000011     01 REC-1 PIC X(80).
000012 PROCEDURE DIVISION.
000013     OPEN OUTPUT FILE-1.
000014     WRITE REC-1.
000015     WRITE REC-1.
000016     CLOSE FILE-1.
000017     STOP RUN.
```

C3262.cob 14: JMN3262I-I (CONF) WRITE statements without ADVANCING phrases are specified for files with LINAGE clauses. 'AFTER ADVANCING 1' is assumed.

C3262.cob 15: JMN3262I-I (CONF) WRITE statements without ADVANCING phrases are specified for files with LINAGE clauses. 'AFTER ADVANCING 1' is assumed.

## JMN3264I-S

**When indexed file @2@ is specified in a GIVING phrase of a @1@ statement, data-name @3@ of the KEY phrase must exist in the same character position as the data item of the prime record key of the file.**

### Parameter Explanation

@1@ : 'SORT' or 'MERGE'.

@2@ : File name.

@3@ : Data name.

### Example

```
[C3264.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3264.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT SD-FILE  ASSIGN TO SYS001-DA-S-SYS001.
000007     SELECT US-FILE  ASSIGN TO SYS002-DA-S-SYS002.
000008     SELECT GV-FILE  ASSIGN TO SYS003
000009         ORGANIZATION      IS INDEXED
000010         RECORD            KEY IS RKEY-1
000011         ALTERNATE RECORD KEY IS AKEY-1
000012         ALTERNATE RECORD KEY IS AKEY-2
000013         ALTERNATE RECORD KEY IS AKEY-3
000014         ACCESS           MODE      IS SEQUENTIAL.
```

```

000015 DATA DIVISION.
000016 FILE SECTION.
000017 FD  US-FILE.
000018 01 US-RECL  PIC X(80).
000019 FD  GV-FILE.
000020 01 GV-RECL.
000021 02 RKEY-1    PIC XX.
000022 02 AKEY-1    PIC XX.
000023 02 AKEY-2    PIC XX.
000024 02 AKEY-3    PIC XX.
000025 02 FILLER   PIC X(72).
000026 SD  SD-FILE.
000027 01 SD-RECL.
000028 02 SD-KEY1   PIC XX.
000029 02 SD-KEY2   PIC XX.
000030 02 FILLER   PIC X(74).
000031 02 SD-KEY3   PIC XX.
000032 PROCEDURE DIVISION.
000033     SORT SD-FILE ASCENDING KEY SD-KEY3
000034     USING  US-FILE
000035     GIVING  GV-FILE.
000036     STOP RUN.

```

C3264.cob 33: JMN3264I-S When indexed file 'GV-FILE' is specified in a GIVING phrase of a SORT statement, data-name 'SD-KEY3' of the KEY phrase must exist in the same character position as the data item of the prime record key of the file.

## JMN3265I-S

**When a national item or a national edited item is specified in the KEY phrase of a @1@ statement, the COLLATING SEQUENCE phrase cannot be specified.**

### Parameter Explanation

@1@ : 'SORT' or 'MERGE'.

### Example

```

[C3265.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.  C3265.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET ABN-1 IS "A" THRU "Z".
000007 INPUT-OUTPUT SECTION.
000008 FILE-CONTROL.
000009     SELECT US-FILE  ASSIGN TO SYS001-DA-S-SYS001.
000010     SELECT GV-FILE  ASSIGN TO SYS002-DA-S-SYS002.
000011     SELECT SD-FILE  ASSIGN TO SYS003-DA-S-SYS003.
000012 DATA DIVISION.
000013 FILE SECTION.
000014 FD  US-FILE.
000015 01 US-RECL  PIC X(80).
000016 FD  GV-FILE.
000017 01 GV-RECL  PIC X(80).
000018 SD  SD-FILE.
000019 01 SD-RECL.
000020 02 SD-KEY1   PIC NN.
000021 02 FILLER   PIC X(76).
000022 PROCEDURE DIVISION.
000023     SORT SD-FILE ASCENDING KEY SD-KEY1
000024     COLLATING SEQUENCE IS ABN-1
000025     USING  US-FILE

```

```
000026          GIVING  GV-FILE.
000027          STOP  RUN.
```

C3265.cob 23: JMN3265I-S When a national item or national edited item is specified in the KEY phrase of a SORT statement, the COLLATING SEQUENCE phrase cannot be specified.

### JMN3266I-I

**(CONF) A file with a control character is specified in the READ statement. The record including the control character is read.**

#### Example

```
[C3266.cob]
000001 @OPTIONS CONF(V10),CTLCHR(N)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3266.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007     SELECT F1 ASSIGN S-SYS001.
000008 DATA DIVISION.
000009 FILE SECTION.
000010     FD F1.
000011     01 R1 PIC X(80).
000012 WORKING-STORAGE SECTION.
000013     01 D1 PIC X(80) VALUE ALL "ABCDEFGHIJ".
000014 PROCEDURE DIVISION.
000015     OPEN OUTPUT F1.
000016     MOVE D1 TO R1.
000017     WRITE R1 AFTER ADVANCING 1 LINE.
000018     CLOSE F1.
000019*
000020     OPEN INPUT F1.
000021     READ F1.
000022     DISPLAY R1.
000023     CLOSE F1.
000024     STOP RUN.
```

C3266.cob 21: JMN3266I-I (CONF) A file with a control character is specified in the READ statement. The record including the control character is read.

### JMN3268I-S

**The number of subscripts for @1@ of the 'WHEN' phrase in the SEARCH ALL statement must be @2@.**

#### Parameter Explanation

@1@ : Identifier.

@2@ : Number of subscripts.

#### Example

```
[C3268.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3268.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GRP.
000007     02 TBL OCCURS 5 TIMES.
000008     03 TBL-2 OCCURS 5 TIMES ASCENDING KEY IS A
000009         INDEXED BY INX.
000010     04 A PIC 9.
```

```

000011 PROCEDURE DIVISION.
000012     SEARCH ALL TBL-2
000013     WHEN A(INX) = 1
000014     STOP RUN.

```

C3268.cob 13: JMN3268I-S The number of subscripts for 'A' of the 'WHEN' phrase in the SEARCH ALL statement must be 2.

## JMN3269I-S

**When report-name @1@ is specified in a GENERATE statement, a 'CONTROL' clause must be specified in the report description entry.**

### Parameter Explanation

@1@ : Report name.

### Example

```

[C3269.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3269.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT OU-FILE ASSIGN TO DA-S-SYS006.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD OU-FILE LABEL RECORD STANDARD
000010     REPORT IS RE-1.
000011 WORKING-STORAGE SECTION.
000012 01 REP-LINE PIC X(8).
000013 REPORT SECTION.
000014 RD RE-1
000015     PAGE LIMITS 66 LINES
000016     HEADING 3
000017     FIRST DETAIL 10
000018     LAST DETAIL 50.
000019 01 TYPE RH LINE 5.
000020     02 COLUMN 25 PIC X(8)
000021     SOURCE REP-LINE.
000022 01 TYPE PH LINE 7.
000023     02 COLUMN 25 PIC X(8)
000024     VALUE "REPORT-1".
000025 01 TYPE DE LINE PLUS 1.
000026     02 COLUMN 25 PIC X(8)
000027     VALUE "REPORT-2".
000028 PROCEDURE DIVISION.
000029 P-START.
000030     OPEN OUTPUT OU-FILE.
000031     INITIATE RE-1.
000032     GENERATE RE-1.
000033     TERMINATE RE-1.
000034     CLOSE OU-FILE.
000035     STOP RUN.

```

C3269.cob 32: JMN3269I-S When report-name 'RE-1' is specified in a GENERATE statement, a 'CONTROL' clause must be specified in the report description entry.

## JMN3270I-S

**If report-name @1@ is specified in a GENERATE statement, plural detail report groups cannot be specified in the report description entry.**

## Parameter Explanation

@1@ : Report name.

## Example

```
[C3270.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3270.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT LP1FILE ASSIGN TO DA-S-SYS006.
000007 DATA DIVISION.
000008 FILE SECTION.
000009     FD LP1FILE LABEL RECORD STANDARD
000010     REPORT IS RE-1.
000011 WORKING-STORAGE SECTION.
000012 01 REP-LINE PIC X(80).
000013 REPORT SECTION.
000014 RD RE-1
000015     CONTROL IS FINAL
000016     PAGE LIMITS 66 LINES
000017     HEADING 3
000018     FIRST DETAIL 10
000019     LAST DETAIL 50.
000020 01 DE-1 TYPE DETAIL LINE PLUS 1.
000021     02 COLUMN 25 PIC X(80)
000022     SOURCE REP-LINE.
000023 01 DE-2 TYPE DETAIL LINE PLUS 1.
000024     02 COLUMN 25 PIC X(80)
000025     VALUE "REPORT-1" .
000026 PROCEDURE DIVISION.
000027 P-START.
000028     OPEN OUTPUT LP1FILE.
000029     INITIATE RE-1.
000030     GENERATE RE-1.
000031     TERMINATE RE-1.
000032     CLOSE LP1FILE.
000033     STOP RUN.
```

C3270.cob 30: JMN3270I-S If report-name 'RE-1' is specified in a GENERATE statement, plural detail report groups cannot be specified in the report description entry.

## JMN3271I-S

**Report-name @1@ specified in a GENERATE statement must have one or more body groups in its report description entry.**

## Parameter Explanation

@1@ : Report name.

## Example

```
[C3271.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3271.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT LP1FILE ASSIGN TO DA-S-SYS006.
000007 DATA DIVISION.
000008 FILE SECTION.
```



```

000009  FD LP1FILE LABEL RECORD STANDARD
000010      REPORT IS RE-1.
000011 REPORT SECTION.
000012  RD RE-1
000013      CONTROL IS FINAL
000014      PAGE LIMITS 66 LINES
000015      HEADING 3
000016      FIRST DETAIL 10
000017      LAST  DETAIL 50.
000018  01      TYPE PAGE HEADING LINE 5.
000019      02 COLUMN 25 PIC X(8)
000020          VALUE "HEADER-1".
000021 PROCEDURE  DIVISION.
000022 P-START.
000023      OPEN OUTPUT LP1FILE.
000024      INITIATE RE-1.
000025      GENERATE RE-1.
000026      TERMINATE RE-1.
000027      CLOSE LP1FILE.
000028      STOP RUN.

```

C3271.cob 25: JMN3271I-S Report-name 'RE-1' is specified in a GENERATE statement must have one or more body groups in its report description entry.

## JMN3272I-S

**Data name @1@ in the GENERATE statement must be the name of a detail report group.**

### Parameter Explanation

@1@ : Data name.

### Example

```

[C3272.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.  C3272.
000003 ENVIRONMENT  DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT LP1FILE ASSIGN TO DA-S-SYS006.
000007 DATA  DIVISION.
000008 FILE SECTION.
000009  FD LP1FILE LABEL RECORD STANDARD
000010      REPORT IS RE-1.
000011 REPORT SECTION.
000012  RD RE-1
000013      CONTROL IS FINAL
000014      PAGE LIMITS 66 LINES
000015      HEADING 3
000016      FIRST DETAIL 10
000017      LAST  DETAIL 50.
000018 01  RH-1 TYPE REPORT HEADING LINE 5.
000019      02 COLUMN 25 PIC X(8)
000020          VALUE "R-HEADER".
000021 PROCEDURE  DIVISION.
000022 P-START.
000023      OPEN OUTPUT LP1FILE.
000024      INITIATE RE-1.
000025      GENERATE RH-1.
000026      TERMINATE RE-1.
000027      CLOSE LP1FILE.
000028      STOP RUN.

```

C3272.cob 25: JMN3272I-S Data name 'RH-1' in the GENERATE statement must be the name of detail report group.

## JMN3273I-S

**Report file @1@ cannot be specified for a statement except for an OPEN OUTPUT, OPEN EXTEND, CLOSE, or USE statement.**

### Parameter Explanation

@1@ : Report file name.

### Example

```
[C3273.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3273.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1  ASSIGN TO S-SYS001.
000007     SELECT FILE-2  ASSIGN TO S-SYS002.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD  FILE-1
000011     REPORT IS REC-1.
000012 SD  FILE-2.
000013     01 REC-2 PIC X(100).
000014 REPORT SECTION.
000015 RD  REC-1
000016     PAGE LIMIT IS 66 LINES
000017     HEADING 3
000018     FIRST DETAIL 10
000019     LAST DETAIL 50.
000020     01 LINE NUMBER IS 5  TYPE IS RH.
000021     02 COLUMN NUMBER IS 10 PIC X(14) VALUE "**** HEADER ****".
000022 PROCEDURE DIVISION.
000023     OPEN INPUT FILE-1.
000024     OPEN I-O  FILE-1.
000025     READ FILE-1.
000026     SORT FILE-2 ASCENDING KEY REC-2 USING FILE-1 GIVING FILE-1.
000027     STOP RUN.
```

C3273.cob 23: JMN3273I-S Report file 'FILE-1' cannot be specified for a statement except for an OPEN OUTPUT, OPEN EXTEND, CLOSE, or USE statement.

C3273.cob 24: JMN3273I-S Report file 'FILE-1' cannot be specified for a statement except for an OPEN OUTPUT, OPEN EXTEND, CLOSE, or USE statement.

C3273.cob 25: JMN3273I-S Report file 'FILE-1' cannot be specified for a statement except for an OPEN OUTPUT, OPEN EXTEND, CLOSE, or USE statement.

C3273.cob 26: JMN3273I-S Report file 'FILE-1' cannot be specified for a statement except for an OPEN OUTPUT, OPEN EXTEND, CLOSE, or USE statement.

C3273.cob 27: JMN3273I-S Report file 'FILE-1' cannot be specified for a statement except for an OPEN OUTPUT, OPEN EXTEND, CLOSE, or USE statement.

## JMN3275I-W

**@1@ of the nonnumeric comparison must be an integer. The decimal-point is assumed to be on the rightmost side.**

### Parameter Explanation

@1@ : Identifier or 'Numeric literal'.

## Example

```
[C3275.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3275.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC X(3).
000007 01 B PIC 99V9.
000008 PROCEDURE DIVISION.
000009 P-START.
000010 IF A = B STOP RUN.
```

C3275.cob 10: JMN3275I-W 'B' of the nonnumeric comparison must be an integer. The decimal-point is assumed to be on the rightmost side.

## JMN3276I-W

**The receiving item in the STRING statement cannot be a item with a JUSTIFIED clause. The items is assumed to not have a JUSTIFIED clause.**

## Example

```
[C3276.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3276.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 AN-1 PIC X(6) VALUE "STRING".
000006 01 AN-2 PIC X(10) JUSTIFIED.
000007 PROCEDURE DIVISION.
000008 P-START.
000009 STRING AN-1 DELIMITED BY "I" INTO AN-2.
000010 STOP RUN.
```

C3276.cob 9: JMN3276I-W The receiving item in the STRING statement cannot be a item with a JUSTIFIED clause. The items is assumed to not have a JUSTIFIED clause.

## JMN3277I-S

**Identifier @2@ of a @1@ phrase in an UNSTRING statement cannot be an external floating-point item.**

### Parameter Explanation

@1@ : INTO or DELIMITER

@2@ : Identifier

## Example

```
[C3277.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3277.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC X(10).
000007 01 B PIC 9(3).
000008 01 C PIC +9V9E+99.
000009 PROCEDURE DIVISION.
000010 P-START.
000011 UNSTRING A DELIMITED BY B INTO C.
000012 END PROGRAM C3277.
```

C3277.cob 11: JMN3277I-S Identifier 'C' of a INTO phrase in an UNSTRING statement cannot be an external floating-point item.

## JMN3278I-S

**In a SEARCH ALL statement, when either key item @1@ or a comparison object is an integer item with P, another object cannot be an alphabetic, alphanumeric, alphanumeric-edited, numeric-edited, nonnumeric-literal, or a figurative constant other than ZERO.**

### Parameter Explanation

@1@ : Data name

### Example

```
[C3278.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3278.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 TBL.
000007 02 X OCCURS 5 TIMES ASCENDING KEY IS A
000008 INDEXED BY IX1.
000009 03 A PIC 9P.
000010 PROCEDURE DIVISION.
000011 SEARCH ALL X
000012 WHEN A(IX1) = "10"
000013 CONTINUE
000014 END-SEARCH.
000015 END PROGRAM C3278.
```

C3278.cob 12: JMN3278I-S In a SEARCH ALL statement, when either key item 'A' or a comparison object is an integer item with P, another object cannot be an alphabetic, alphanumeric, alphanumeric-edited, numeric-edited, nonnumeric-literal, or a figurative constant other than ZERO.

## JMN3280I-S

**Key item @1@ and the comparison object in the SEARCH statement with ALL cannot exceed 256 bytes in length.**

### Parameter Explanation

@1@ : Data name

## JMN3281I-I

**(CONF) The numeric literal '-0' is specified as a sending item in a MOVE statement. '+0' is assumed.**

### Example

```
[C3281.cob]
000001 @OPTIONS CONF(V52)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3281.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 A PIC S9(4).
000008 PROCEDURE DIVISION.
000009 MOVE -0 TO A.
000010 END PROGRAM C3281.
```

C3281.cob 9: JMN3281I-I (CONF) The numeric literal '-0' is specified as a sending item in a MOVE statement. '+0' is assumed.

## JMN3286I-S

**@1@ must be defined in the BASED-STORAGE SECTION.**

### Parameter Explanation

@1@ : Identifier.

### Example

```
[C3286.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3286.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC X.
000007 01 PTR USAGE IS POINTER.
000008 PROCEDURE DIVISION.
000009 MOVE "A" TO PTR->A.
000010 STOP RUN.
```

C3286.cob 9: JMN3286I-S 'A' must be defined in the BASED-STORAGE SECTION.

## JMN3287I-S

**Argument @1@ cannot be specified to @2@.**

### Parameter Explanation

@1@ : Argument of function

@2@ : Function name

### Example

```
[C3287.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3287.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 P POINTER.
000007 01 FG.
000008 02 B1 PIC 1(4) BIT.
000009 02 B2 PIC 1(4) BIT.
000010 PROCEDURE DIVISION.
000011 MOVE FUNCTION ADDR (B1) TO P
000012 MOVE FUNCTION ADDR (B2) TO P
000013 END PROGRAM C3287.
```

C3287.cob 11: JMN3287I-S Argument 'B1' cannot be specified to FUNCTION ADDR.

C3287.cob 12: JMN3287I-S Argument 'B2' cannot be specified to FUNCTION ADDR.

## JMN3291I-S

**If a record containing a RECORD clause with a DEPENDING ON phrase is specified in a WRITE statement, an item containing a CHARACTER TYPE or PRINTING POSITION clause cannot be specified in the FROM phrase.**

### Example

```
[C3291.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3291.
```

```

000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO S-SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD  FILE-1
000010     RECORD IS VARYING IN SIZE
000011     FROM 80 TO 120 CHARACTERS
000012     DEPENDING ON DEP-1.
000013 01  REC-1 PIC X(120).
000014 WORKING-STORAGE SECTION.
000015 01  A      PIC N(50) CHARACTER TYPE IS MODE-1.
000016 01  DEP-1 PIC 999.
000017 PROCEDURE DIVISION.
000018     WRITE REC-1 FROM A.
000019 END PROGRAM C3291.

```

C3291.cob 18: JMN3291I-S If a record containing a RECORD clause with a DEPENDING ON phrase is specified in a WRITE statement, an item containing a CHARACTER TYPE or PRINTING POSITION clause cannot be specified in the FROM phrase.

### JMN3298I-S

**An ADVANCING phrase cannot be specified to a WRITE statement for control record @1@.**

#### Parameter Explanation

@1@ : Control record name.

#### Example

```

[C3298.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3298.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001
000007     FORMAT IS FMT-001.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD  FILE-1
000011     CONTROL RECORD IS CNTL-REC.
000012 01  CNTL-REC PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 01  FMT-001 PIC X(8).
000015 PROCEDURE DIVISION.
000016     WRITE CNTL-REC AFTER ADVANCING 1.
000017 END PROGRAM C3298.

```

C3298.cob 16: JMN3298I-S An ADVANCING phrase cannot be specified to a WRITE statement for control record 'CNTL-REC'.

### JMN3301I-S

**Data item @1@ specified in the BASED-STORAGE SECTION must be qualified by a pointer expression.**

#### Parameter Explanation

@1@ : Identifier.

#### Example

```

[C3301.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3301.

```

```

000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 BASED-STORAGE SECTION.
000006     01 A PIC S9(8) BINARY.
000007 PROCEDURE DIVISION.
000008     MOVE 12345 TO A.
000009     STOP RUN.

```

C3301.cob 8: JMN3301I-S Data item 'A' specified in the BASED-STORAGE SECTION must be qualified by a pointer expression.

## JMN3304I-S

**Pointer data item @1@ cannot be specified in the @2@ statement.**

### Parameter Explanation

@1@ : Identifier.

@2@ : Statement name.

### Example

```

[C3304.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C3304.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 PTR1  USAGE IS POINTER.
000006 PROCEDURE         DIVISION.
000007     INITIALIZE  PTR1.
000008     STOP RUN.

```

C3304.cob 7: JMN3304I-S Pointer data item 'PTR1' cannot be specified in the INITIALIZE statement.

## JMN3307I-S

**The relational operator for comparison of pointer data operands must be 'EQUAL(=)' or 'NOT EQUAL(NOT =)'.**

### Example

```

[C3307.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C3307.
000003 ENVIRONMENT      DIVISION.
000004 DATA             DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 PTR1  USAGE IS POINTER.
000007 01 PTR2  USAGE IS POINTER.
000008 PROCEDURE         DIVISION.
000009     IF PTR1 > PTR2 THEN DISPLAY "NG".
000010 END PROGRAM     C3307.

```

C3307.cob 9: JMN3307I-S The relational operator for comparison of pointer data operands must be 'EQUAL(=)' or 'NOT EQUAL(NOT =)'.

## JMN3309I-S

**Data name @1@ defined in the BASED-STORAGE SECTION cannot be specified in the @3@ phrase of the @2@ statement.**

### Parameter Explanation

@1@ : Data name.

@2@ : Statement name(READ or START).

@3@ : Specification.

### Example

```
[C3309.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3309.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     RECORD KEY IS KEY-1
000009     ACCESS MODE IS RANDOM.
000010 DATA DIVISION.
000011 BASED-STORAGE SECTION.
000012 01 BSD-1 PIC X BASED ON PTR1.
000013 FILE SECTION.
000014 FD FILE-1.
000015 01 REC-1.
000016     02 KEY-1 PIC X(5).
000017     02     PIC X(75).
000018 WORKING-STORAGE SECTION.
000019 01 PTR1 POINTER.
000020 PROCEDURE DIVISION.
000021     OPEN INPUT FILE-1.
000022     READ FILE-1 KEY IS BSD-1.
000023     CLOSE FILE-1.
000024 END PROGRAM C3309.
```

C3309.cob 22: JMN3309I-S Data name 'BSD-1' defined in the BASED-STORAGE SECTION cannot be specified in the KEY phrase of the READ statement.

### JMN3326I-W

---

**@2@ is an unsigned numeric item or a numeric edited item without editing sign control symbols in the @1@ statement. A negative value cannot be moved.**

#### Parameter Explanation

@1@ : Statement name.

@2@ : Identifier.

### Example

```
[C3326.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3326.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 NUM PIC 99.
000006 PROCEDURE DIVISION.
000007     MOVE -10 TO NUM.
000008 END PROGRAM C3326.
```

C3326.cob 7: JMN3326I-W 'NUM' is an unsigned numeric item or a numeric edited item without editing sign control symbols in the MOVE statement. A negative value cannot be moved.

### JMN3327I-W

---

**When @2@ is moved to @3@ in the @1@ statement, there are no overlapping digits.**



## Parameter Explanation

- @1@ : statement name
- @2@ : literal or identifier
- @3@ : identifier

## Example

```
[C3327.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3327.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A1 PIC V99.
000006 01 A2 PIC 99.
000007 PROCEDURE DIVISION.
000008 MOVE 10 TO A1.
000009 MOVE A1 TO A2.
000010 STOP RUN.
```

C3327.cob 8: JMN3327I-W When numeric literal is moved to 'A1' in the MOVE statement, there are no overlapping digits.

C3327.cob 9: JMN3327I-W When 'A1' is moved to 'A2' in the MOVE statement, there are no overlapping digits.

## Explanation

This message indicates that there are no overlapping positions/digits in the sending and receiving items when moving fixed point numbers. When this is the case none of the digits in the sending item would be moved to any positions in the receiving item.

## JMN3328I-W

---

**When a numeric literal is moved to @2@ in the @1@ statement, digit overflow may occur.**

## Parameter Explanation

- @1@ : Statement name.
- @2@ : Identifier.

## Example

```
[C3328.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3328.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A1 PIC 99.
000006 PROCEDURE DIVISION.
000007 MOVE 100 TO A1.
000008 END PROGRAM C3328.
```

C3328.cob 7: JMN3328I-W When a numeric literal is moved to 'A1' in the MOVE statement, digit overflow may occur.

## JMN3330I-W

---

**When a numeric literal is moved to @2@ in the @1@ statement, the decimal part is truncated.**

## Parameter Explanation

- @1@ : Statement name.
- @2@ : Identifier.

## Example

```
[C3330.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3330.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005     01  A1  PIC 99V9.
000006 PROCEDURE DIVISION.
000007     MOVE 11.23 TO A1.
000008 END PROGRAM C3330.
```

C3330.cob 7: JMN3330I-W When a numeric literal is moved to 'A1' in the MOVE statement, the decimal part is truncated.

## JMN3331I-W

**When a numeric literal is moved to numeric item @2@ with scaling position character 'P' in the @1@ statement, the value of the character position corresponding to 'P' of the numeric item is not reflected.**

### Parameter Explanation

@1@ : Statement name.

@2@ : Identifier.

## Example

```
[C3331.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3331.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005     01  A1  PIC 99PP.
000006 PROCEDURE DIVISION.
000007     MOVE 1234 TO A1.
000008 END PROGRAM C3331.
```

C3331.cob 7: JMN3331I-W When a numeric literal is moved to numeric item 'A1' with scaling position character 'P' in the MOVE statement, the value of the character position corresponding to 'P' of the numeric item is not reflected.

## JMN3332I-W

**When @2@ is moved to @3@ in the @1@ statement, the value of the sending item is not reflected in the receiving item.**

### Parameter Explanation

@1@ : Statement name.

@2@ : Identifier or 'numeric literal'.

@3@ : Identifier.

## Example

```
[C3332.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3332.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005     01  A1  PIC 99PP.
000006 PROCEDURE DIVISION.
000007     MOVE 11 TO A1.
000008 END PROGRAM C3332.
```

C3332.cob 7: JMN3332I-W When numeric literal is moved to 'A1' in the MOVE statement, the value of the sending item is not reflected in the receiving item.

### JMN3333I-S

**The number of parameters specified in the USING phrase of the CALL statement must be the same as the number of parameters specified in the USING phrase of the PROCEDURE DIVISION.**

#### Example

```
[C3333.cob]
000001 @OPTIONS CHECK(PRM)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3333.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006     01 A PIC X(10).
000007 PROCEDURE DIVISION.
000008     CALL "SUB" USING A.
000009     STOP RUN.
000010 IDENTIFICATION DIVISION.
000011 PROGRAM-ID. SUB.
000012 DATA DIVISION.
000013 LINKAGE SECTION.
000014     01 B PIC X(10).
000015     01 C PIC X(10).
000016 PROCEDURE DIVISION
000017     USING B C.
000018     EXIT PROGRAM.
000019 END PROGRAM SUB.
000020 END PROGRAM C3333.
```

C3333.cob 8: JMN3333I-S The number of parameters specified in the USING phrase of the CALL statement must be the same as the number of parameters specified in the USING phrase of the PROCEDURE DIVISION.

### JMN3334I-S

**The type of parameter @2@ specified in the USING phrase or the RETURNING phrase of the CALL statement must be the same as the type of parameter @3@ specified in the PROCEDURE DIVISION USING phrase or the RETURNING phrase of program @1@.**

#### Parameter Explanation

@1@ : Program name

@2@ : Identifier

@3@ : Identifier

#### Example

```
[C3334.cob]
000001 @OPTIONS CHECK(PRM)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3334.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006     01 U OBJECT REFERENCE.
000007 PROCEDURE DIVISION.
000008     CALL "C3334S" USING U.
000009     EXIT PROGRAM.
000010*
000011 IDENTIFICATION DIVISION.
000012 PROGRAM-ID. C3334S.
000013 DATA DIVISION.
```

```

000014 LINKAGE          SECTION.
000015  01 L-U BINARY-CHAR UNSIGNED.
000016 PROCEDURE DIVISION
000017     USING L-U.
000018     EXIT PROGRAM.
000019 END PROGRAM C3334S.
000020 END PROGRAM C3334.

```

C3334.cob 8: JMN3334I-S The type of parameter 'U' specified in the USING phrase or the RETURNING phrase of the CALL statement must be the same as the type of parameter 'L-U' specified in the PROCEDURE DIVISION USING phrase or the RETURNING phrase of program 'C3334S'.

## JMN3335I-S

**The length of parameter @2@ specified in the USING phrase or RETURNING phrase of the CALL statement must be the same as the length of parameter @3@ specified in the PROCEDURE DIVISION USING phrase or RETURNING phrase of program @1@.**

### Parameter Explanation

@1@ : Program name

@2@ : Identifier

@3@ : Identifier

### Example

```

[C3335.cob]
000001 @OPTIONS CHECK(PRM)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3335.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006     01 A PIC X(10).
000007 PROCEDURE DIVISION.
000008     CALL "SUB" USING A.
000009*
000010 IDENTIFICATION DIVISION.
000011 PROGRAM-ID. SUB.
000012 DATA DIVISION.
000013 LINKAGE          SECTION.
000014     01 B PIC X(05).
000015 PROCEDURE DIVISION
000016     USING B.
000017     EXIT PROGRAM.
000018 END PROGRAM SUB.
000019 END PROGRAM C3335.

```

C3335.cob 8: JMN3335I-S The length of parameter 'A' specified in the USING phrase or RETURNING phrase of the CALL statement must be the same as the length of parameter 'B' specified in the PROCEDURE DIVISION USING phrase or RETURNING phrase of program 'SUB'.

## JMN3337I-I

**(CONF) The subscript or reference modifier is evaluated only one time immediately before execution in the UNSTRING statement.**

### Example

```

[C3337.cob]
000001 @OPTIONS LANGLVL(85),CONF(74)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3337.
000004 ENVIRONMENT DIVISION.

```

```

000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 SND PIC X(10).
000008 01 DLM.
000009 02 DLMB OCCURS 2 PIC X.
000010 01 INTO1 PIC X(10).
000011 01 INTO2 PIC X(10).
000012 01 DLMI1 PIC X(2).
000013 01 DLMI2 PIC X(2).
000014 01 COUNT1 PIC 9(2).
000015 01 COUNT2 PIC 9(2).
000016 01 PTR PIC 9(2).
000017 01 TALLY1 PIC 9(2).
000018 PROCEDURE DIVISION.
000019 UNSTRING SND DELIMITED BY DLMB(TALLY)
000020 INTO INTO1 DELIMITER IN DLMI1 COUNT IN COUNT1
000021 INTO2 DELIMITER IN DLMI2 COUNT IN COUNT2
000022 POINTER PTR
000023 TALLYING TALLY1.
000024 END PROGRAM C3337.

```

C3337.cob 19: JMN3337I-I (CONF) The subscript or reference modifier is evaluated only one time immediately before execution in the UNSTRING statement.

## JMN3338I-W

**A nonnumeric literal that contains a period was moved to a numeric item or a numeric edited item. The characters following the period are ignored in the nonnumeric literal.**

### Example

```

[C3338.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3338.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A PIC 99V9.
000006 PROCEDURE DIVISION.
000007 MOVE "12.3" TO A.
000008 MOVE 12.3 TO A.
000009 END PROGRAM C3338.

```

C3338.cob 7: JMN3338I-W A nonnumeric literal that contains a period was moved to a numeric item or a numeric edited item. The characters following the period are ignored in the nonnumeric literal.

### Explanation

Please correct the nonnumeric literal to the numeric literal.

## JMN3339I-I

**(OBS) Moving all literals of two or more characters to a numeric item or a numeric edited item is an obsolete feature in @1@ COBOL. It is accepted as written.**

### Parameter Explanation

@1@ : ANSI85

### Example

```

[C3339.cob]
000001 @OPTIONS CONF(OBS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3339.
000004 DATA DIVISION.

```

```

000005 WORKING-STORAGE SECTION.
000006     01 A PIC 999V9.
000007 PROCEDURE DIVISION.
000008     MOVE ALL "123" TO A.
000009 END PROGRAM C3339.

```

C3339.cob 8: JMN3339I-I (OBS) Moving all literals of two or more characters to a numeric item or a numeric edited item is an obsolete feature in ANSI85 COBOL. It is accepted as written.

### JMN3340I-I

**(OBS) Comparing all literals of two or more characters with a numeric item or a numeric edited item is an obsolete feature in @1@ COBOL. It is accepted as written.**

#### Parameter Explanation

@1@ : ANSI85

### JMN3342I-S

**SET statement item @1@ of the @2@ phrase must be an index-name, index data item, integer item, pointer data item, NULL, address of special register, or object reference data item.**

#### Parameter Explanation

@1@ : Identifier

@2@ : TO, 'UP BY' or 'DOWN BY'

#### Example

```

[C3342.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3342.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006     01 A PIC X.
000007     01 B USAGE IS POINTER.
000008 PROCEDURE DIVISION.
000009     P-START.
000010     SET B TO A.
000011 END PROGRAM C3342.

```

C3342.cob 10: JMN3342I-S SET statement item 'A' of the TO phrase must be an index-name, index data item, integer item, pointer data item, NULL, address of special register, or object reference data item.

### JMN3343I-S

**SET statement receiving item @1@ must be an index-name, index data item, integer item, pointer data item, address of special register, or object reference data item.**

#### Parameter Explanation

@1@ : Item name specified for receipt side

#### Example

```

[C3343.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3343.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006     01 A PIC X.

```

```

000007 01 B USAGE IS POINTER.
000008 PROCEDURE DIVISION.
000009 P-START.
000010 SET A TO B.
000011 END PROGRAM C3343.

```

C3343.cob 10: JMN3343I-S SET statement receiving item 'A' must be an index-name, index data item, integer item, pointer data item, address of special register, or object reference data item.

## JMN3344I-S

**Data-name @1@ of the pointer qualifier must be a pointer data item.**

### Parameter Explanation

@1@ : Data name

### Example

```

[C3344.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3344.
000003 DATA DIVISION.
000004 BASED-STORAGE SECTION.
000005 01 AAA PIC X(10).
000006 WORKING-STORAGE SECTION.
000007 01 PT PIC S9(9) BINARY.
000008 PROCEDURE DIVISION.
000009 DISPLAY PT->AAA.
000010 END PROGRAM C3344.

```

C3344.cob 9: JMN3344I-S Data-name 'PT' of the pointer qualifier must be a pointer data item.

## JMN3345I-S

**The special register for the presentation file cannot be created using data-name @1@ in the BASED-STORAGE SECTION.**

### Parameter Explanation

@1@ : Data name

### Example

```

[C3345.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3345.
000003 DATA DIVISION.
000004 BASED-STORAGE SECTION.
000005 01.
000006 02 FILLER PIC X(5).
000007 02 A PIC X(1).
000008 PROCEDURE DIVISION.
000009 DISPLAY EDIT-COLOR OF A.
000010 END PROGRAM C3345.

```

C3345.cob 9: JMN3345I-S The special register for the presentation file cannot be created using data-name 'A' in the BASED-STORAGE SECTION.

## JMN3346I-S

**@1@ being tested by KANJI or DBCS class condition must be a national item or a national-edited item.**

## Parameter Explanation

@1@ : Identifier

### Example

```
[C3346.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3346.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC X(4).
000007 PROCEDURE DIVISION.
000008 P-START.
000009     IF A IS KANJI
000010         DISPLAY A.
000011     IF A IS DBCS
000012         DISPLAY A.
000013 END PROGRAM C3346.
```

C3346.cob 9: JMN3346I-S 'A' being tested by KANJI or DBCS class condition must be a national item or a national-edited item.

C3346.cob 11: JMN3346I-S 'A' being tested by KANJI or DBCS class condition must be a national item or a national-edited item.

## JMN3347I-S

---

**Data-name @1@ is qualified by an implicit pointer over 7 times, or qualified recursively.**

### Parameter Explanation

@1@ : Data name

### Example

```
[C3347.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3347.
000003 DATA DIVISION.
000004 BASED-STORAGE SECTION.
000005 01 PT2 POINTER BASED ON PTR.
000006 01 PT3 POINTER BASED ON PT2.
000007 01 PT4 POINTER BASED ON PT3.
000008 01 PT5 POINTER BASED ON PT4.
000009 01 PT6 POINTER BASED ON PT5.
000010 01 PT7 POINTER BASED ON PT6.
000011 01 PT8 POINTER BASED ON PT7.
000012 01 GRR PIC X(10) BASED ON PT8.
000013 WORKING-STORAGE SECTION.
000014 01 PTR POINTER.
000015 01 GR PIC X(10).
000016 PROCEDURE DIVISION.
000017     DISPLAY GRR.
000018 END PROGRAM C3347.
```

C3347.cob 17: JMN3347I-S Data-name 'GRR' is qualified by an implicit pointer over 7 times, or qualified recursively.

## JMN3348I-S

---

**When a mnemonic-name corresponds to function-name @1@, @2@ must be an unsigned integer item or an unsigned integer.**

### Parameter Explanation

@1@ : ARGUMENT-NUMBER



@2@ : Data name or literal

### Example

```
[C3348.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3348.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006     ARGUMENT-NUMBER IS A-N.
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 AG1 PIC S9(8) BINARY.
000010 PROCEDURE DIVISION.
000011     ACCEPT AG1 FROM A-N.
000012 END PROGRAM C3348.
```

C3348.cob 11: JMN3348I-S When a mnemonic-name corresponds to function-name ARGUMENT-NUMBER, 'AG1' must be an unsigned integer item or an unsigned integer.

### JMN3349I-S

---

**When a mnemonic-name corresponds to function-name @1@, @2@ must be a fixed length group item, an alphanumeric elementary item, or a nonnumeric literal.**

#### Parameter Explanation

@1@ : ARGUMENT-VALUE, ENVIRONMENT-VALUE or ENVIRONMENT-NAME

@2@ : Data name or literal

### Example

```
[C3349.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3349.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006     ARGUMENT-VALUE IS A-V.
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 AV1 PIC S9(8) BINARY.
000010 PROCEDURE DIVISION.
000011     ACCEPT AV1 FROM A-V.
000012 END PROGRAM C3349.
```

C3349.cob 11: JMN3349I-S When a mnemonic-name corresponds to function-name ARGUMENT-VALUE, 'AV1' must be a fixed length group item, an alphanumeric elementary item or a nonnumeric literal.

### JMN3351I-S

---

**The argument of @1@ must be a type integer.**

#### Parameter Explanation

@1@ : Function name

### Example

```
[C3351.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3351.
000003 ENVIRONMENT DIVISION.
```

```

000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC S9(2)V9(2).
000007 01 B PIC X(1).
000008 PROCEDURE DIVISION.
000009 P-START.
000010 MOVE FUNCTION CHAR(A) TO B.
000011 END PROGRAM C3351.

```

C3351.cob 10: JMN3351I-S The argument of FUNCTION CHAR must be a type integer.

## JMN3352I-S

**Argument @1@ of @2@ must be a type alphabetic or an alpha-numeric.**

### Parameter Explanation

@1@ : Argument of function

@2@ : Function name

### Example

```

[C3352.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3352.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9(8).
000007 01 B PIC X(8).
000008 PROCEDURE DIVISION.
000009 P-START.
000010 MOVE FUNCTION LOWER-CASE (A) TO B.
000011 END PROGRAM C3352.

```

C3352.cob 10: JMN3352I-S Argument 'A' of FUNCTION LOWER-CASE must be a type alphabetic or an alpha-numeric.

## JMN3353I-S

**Argument @1@ of @2@ must be a type numeric.**

### Parameter Explanation

@1@ : Argument of function

@2@ : Function name

### Example

```

[C3353.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3353.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A COMP-2.
000007 01 B PIC X(8).
000008 PROCEDURE DIVISION.
000009 COMPUTE A = FUNCTION SIN (B).
000010 END PROGRAM C3353.

```

C3353.cob 9: JMN3353I-S Argument 'B' of FUNCTION SIN must be a type numeric.

## JMN3354I-S

---

**@1@ must be an unsigned integer item.**

Parameter Explanation

@1@ : Data name

Example

```
[C3354.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3354.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 LN PIC S9(2) BINARY.
000006 SCREEN SECTION.
000007 01 A.
000008 02 B VALUE "TEST-1".
000009 PROCEDURE DIVISION.
000010 DISPLAY A
000011 AT LINE NUMBER LN.
000012 END PROGRAM C3354.
```

C3354.cob 10: JMN3354I-S 'LN' must be an unsigned integer item.

**JMN3355I-S**

---

**@1@, which is a BY VALUE parameter of the CALL statement, must be one of: a binary item with a usage of COMP-5, BINARY-CHAR, BINARY-SHORT, or BINARY-LONG and is 4 bytes or less; or a 1 byte item; or a numeric literal that has 9 digits or less.**

Parameter Explanation

@1@ : Data name

Example

```
[C3355.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3355.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 PGMNAME PIC X(10).
000006 01 ITEM PIC S9(9) BINARY.
000007 PROCEDURE DIVISION.
000008 CALL PGMNAME USING BY VALUE ITEM.
000009 END PROGRAM C3355.
```

C3355.cob 8: JMN3355I-S 'ITEM', which is a BY VALUE parameter of the CALL statement, must be one of: a binary item with a usage of COMP-5, BINARY-CHAR, BINARY-SHORT, or BINARY-LONG and is 4 bytes or less; or a 1 byte item; or a numeric literal that has 9 digits or less.

**JMN3358I-S**

---

**The file that is specified in the UNLOCK statement must be a sequential file, a relative file, or an indexed file.**

Example

```
[C3358.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3358.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT F1 ASSIGN TO GS-SYS009
```

```

000007          SYMBOLIC DESTINATION IS "PRT".
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD F1.
000011     01 RECL.
000012         02 KY1    PIC X(2).
000013         02          PIC X(78).
000014 PROCEDURE DIVISION.
000015     UNLOCK F1.
000016 END PROGRAM C3358.

```

C3358.cob 15: JMN3358I-S The file that is specified in the UNLOCK statement must be a sequential file, a relative file, or an indexed file.

## JMN3359I-S

**All arguments of @1@ must be of the same type.**

### Parameter Explanation

@1@ : Function name

### Example

```

[C3359.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3359.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A    PIC S9(4)V9(4) BINARY.
000007 01 B    PIC S9(8) PACKED-DECIMAL.
000008 01 C    PIC X(8).
000009 01 D    PIC S9(8)V9(8) BINARY.
000010 PROCEDURE DIVISION.
000011 P-START.
000012     COMPUTE D = FUNCTION MAX (A , B , C).
000013 END PROGRAM C3359.

```

C3359.cob 12: JMN3359I-S All arguments of FUNCTION MAX must be of the same type.

## JMN3361I-S

**The numeric parts of the argument of @1@ cannot exceed 18 digits.**

### Parameter Explanation

@1@ : Function name

### Example

```

[C3361.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3361.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A    PIC S9(18) BINARY.
000007 PROCEDURE DIVISION.
000008 P-START.
000009     COMPUTE A = FUNCTION NUMVAL
000010         (" 1234567890.123456789").
000011 END PROGRAM C3361.

```

C3361.cob 9: JMN3361I-S The numeric parts of the argument of FUNCTION NUMVAL cannot exceed 18 digits.

## JMN3362I-S

**The argument of @1@ must be greater than or equal to 0.**

### Parameter Explanation

@1@ : Function name

### Example

```
[C3362.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3362.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC S9(9)V9(9) BINARY.
000007 PROCEDURE DIVISION.
000008 COMPUTE A = FUNCTION Sqrt( -2 ).
000009 END PROGRAM C3362.
```

C3362.cob 8: JMN3362I-S The argument of FUNCTION Sqrt must be greater than or equal to 0.

## JMN3363I-S

**The first argument of the FUNCTION PRESENT-VALUE must be greater than -1.**

### Example

```
[C3363.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3363.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC S9(18) BINARY.
000007 01 B PIC S9(8) BINARY VALUE +4.
000008 01 C PIC S9(8) BINARY VALUE +12.
000009 01 D PIC S9(8) BINARY VALUE +24.
000010 PROCEDURE DIVISION.
000011 COMPUTE A = FUNCTION PRESENT-VALUE (-2 B C D).
000012 END PROGRAM C3363.
```

C3363.cob 11: JMN3363I-S The first argument of the FUNCTION PRESENT-VALUE must be greater than -1.

## JMN3364I-S

**The numeric function cannot be reference modified. An alphanumeric function is assumed.**

### Example

```
[C3364.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3364.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC S9(18) BINARY VALUE +35983.
000007 01 B PIC S9(8) BINARY VALUE +4.
000008 01 C PIC S9(4) BINARY.
000009 PROCEDURE DIVISION.
000010 MOVE FUNCTION REM(A B)(3:2) TO C.
000011 END PROGRAM C3364.
```

C3364.cob 10: JMN3364I-S The numeric function cannot be reference modified. An alphanumeric function is assumed.

### JMN3366I-S

---

**An integer function and a numeric function cannot be specified in the @1@ statement.**

#### Parameter Explanation

@1@ : DISPLAY, INITIALIZE, INSPECT or SET

#### Example

```
[C3366.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3366.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC S9(8) BINARY.
000007 PROCEDURE DIVISION.
000008     DISPLAY FUNCTION INTEGER( A ).
000009 END PROGRAM C3366.
```

C3366.cob 8: JMN3366I-S An integer function and a numeric function cannot be specified in the DISPLAY statement.

### JMN3367I-S

---

**@1@ in the PERFORM statement must be an integer or an integer item.**

#### Parameter Explanation

@1@ : Function name

#### Example

```
[C3367.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3367.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC S9(8) BINARY.
000007 PROCEDURE DIVISION.
000008     PERFORM FUNCTION INTEGER( A ) TIMES
000009     COMPUTE A = A - 1
000010     END-PERFORM
000011 END PROGRAM C3367.
```

C3367.cob 8: JMN3367I-S FUNCTION INTEGER in the PERFORM statement must be an integer or an integer item.

### JMN3368I-S

---

**An integer function and a numeric function cannot be specified in a FROM clause in a @1@ statement.**

#### Parameter Explanation

@1@ : WRITE, REWRITE or RELEASE

#### Example

```
[C3368.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3368.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
```

```

000006      SELECT FILE-1 ASSIGN TO SYS001.
000007 DATA  DIVISION.
000008 FILE  SECTION.
000009 FD FILE-1.
000010 01 WRTREC.
000011 02 WRT-1  PIC S9(8) BINARY.
000012 02 WRT-2  PIC X(72).
000013 WORKING-STORAGE SECTION.
000014 01 A      PIC X(4).
000015 PROCEDURE  DIVISION.
000016 P-START.
000017      OPEN OUTPUT FILE-1.
000018      WRITE WRTREC FROM FUNCTION LENGTH(A).
000019      CLOSE FILE-1.
000020 END PROGRAM  C3368.

```

C3368.cob 18: JMN3368I-S An integer function and a numeric function cannot be specified in a FROM clause in a WRITE statement.

### JMN3369I-S

**An integer function and a numeric function cannot be specified in the DELIMITED phrase of a @1@ statement.**

Parameter Explanation

@1@ : STRING or UNSTRING

### JMN3371I-S

**An integer function and a numeric function cannot be specified in an INSPECT statement.**

Example

```

[C3371.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    C3371.
000003 ENVIRONMENT  DIVISION.
000004 DATA  DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 CHARS  PIC X(1) VALUE "4".
000007 01 I      PIC 9(2).
000008 PROCEDURE  DIVISION.
000009 P-START.
000010      INSPECT FUNCTION INTEGER-OF-DAY(5)
000011          TALLYING I FOR ALL CHARS.
000012 END PROGRAM  C3371.

```

C3371.cob 10: JMN3371I-S An integer function and a numeric function cannot be specified in an INSPECT statement.

### JMN3372I-S

**An integer function and a numeric function cannot be specified in the @1@ statement.**

Parameter Explanation

@1@ : MOVE, INITIALIZE, STRING or UNSTRING

Example

```

[C3372.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    C3372.
000003 ENVIRONMENT  DIVISION.
000004 DATA  DIVISION.
000005 WORKING-STORAGE SECTION.

```

```

000006 01 RCV PIC 9(5).
000007 01 DATA-A PIC X(20) VALUE "ABC".
000008 PROCEDURE DIVISION.
000009 MOVE FUNCTION LENGTH(DATA-A) TO RCV *> ERROR
000010 COMPUTE RCV = FUNCTION LENGTH(DATA-A) *> OK
000011 END PROGRAM C3372.

```

C3372.cob 9: JMN3372I-S An integer function and a numeric function cannot be specified in the MOVE statement.

### Explanation

An integer function and a numeric function can be specified only in the arithmetic expression.

Please use the COMPUTE statement when you set from the value of an integer function or a numeric function to variable.

## JMN3373I-S

**Indexed file @2@ with ACCESS MODE IS RANDOM specified and WITH DUPLICATES specified to prime key cannot be specified in a @1@ statement.**

### Parameter Explanation

@1@ : REWRITE or DELETE

@2@ : File name

### Example

```

[C3373.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3373.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT F1 ASSIGN TO SYS006
000007 ORGANIZATION IS INDEXED
000008 ACCESS MODE IS RANDOM
000009 RECORD KEY IS AAA WITH DUPLICATES.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD F1.
000013 01 REC-1.
000014 02 AAA PIC X(4).
000015 02 FILLER PIC X(76).
000016 PROCEDURE DIVISION.
000017 P-START.
000018 OPEN I-O F1.
000019 REWRITE REC-1.
000020 END PROGRAM C3373.

```

C3373.cob 19: JMN3373I-S Indexed file 'F1' with ACCESS MODE IS RANDOM specified and WITH DUPLICATES specified to prime key cannot be specified in a REWRITE statement.

## JMN3374I-S

**The argument format of @1@ is invalid.**

### Parameter Explanation

@1@ : FUNCTION NUMVAL or FUNCTION NUMVAL-C

### Example

```

[C3374.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3374.

```



```

000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 RCV PIC S9(8)V9(8) BINARY.
000007 PROCEDURE DIVISION.
000008 P-START.
000009 COMPUTE RCV = FUNCTION NUMVAL-C(" + \ 12345.35 %%").
000010 END PROGRAM C3374.

```

C3374.cob 9: JMN3374I-S The argument format of FUNCTION NUMVAL-C is invalid.

## JMN3375I-S

**The argument of FUNCTION CHAR exceeds the maximum number of characters.**

### Example

```

[C3375.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3375.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 RCV PIC X(1).
000007 PROCEDURE DIVISION.
000008 P-START.
000009 MOVE FUNCTION CHAR(+300) TO RCV.
000010 END PROGRAM C3375.

```

C3375.cob 9: JMN3375I-S The argument of FUNCTION CHAR exceeds the maximum number of characters.

## JMN3376I-S

**The argument value of @1@ must be between -1 and +1.**

### Parameter Explanation

@1@ : FUNCTION ACOS or FUNCTION ASIN

### Example

```

[C3376.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3376.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 RCV PIC S9V99.
000007 PROCEDURE DIVISION.
000008 P-START.
000009 COMPUTE RCV = FUNCTION ACOS(+2).
000010 END PROGRAM C3376.

```

C3376.cob 9: JMN3376I-S The argument value of FUNCTION ACOS must be between -1 and +1.

## JMN3377I-S

**The first argument value of @1@ must be greater than or equal to 0.**

### Parameter Explanation

@1@ : FUNCTION ANNUITY

## Example

```
[C3377.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3377.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 RCV PIC S9(5)V9(5) BINARY.
000007 01 A PIC S9(2) BINARY VALUE +3.
000008 PROCEDURE DIVISION.
000009 COMPUTE RCV = FUNCTION ANNUITY(-1 , A).
000010 END PROGRAM C3377.
```

C3377.cob 9: JMN3377I-S The first argument value of FUNCTION ANNUITY must be greater than or equal to 0.

## JMN3378I-S

**The second argument value of @1@ must be an integer greater than 0.**

### Parameter Explanation

@1@ : FUNCTION ANNUITY

## Example

```
[C3378.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3378.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 RCV PIC S9(5)V9(5) BINARY.
000007 01 A PIC S9(2) BINARY VALUE +1.
000008 PROCEDURE DIVISION.
000009 P-START.
000010 COMPUTE RCV = FUNCTION ANNUITY(A -1).
000011 END PROGRAM C3378.
```

C3378.cob 10: JMN3378I-S The second argument value of FUNCTION ANNUITY must be an integer greater than 0.

## JMN3379I-S

**The second argument value of @1@ must not equal 0.**

### Parameter Explanation

@1@ : FUNCTION REM or FUNCTION MOD

## Example

```
[C3379.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3379.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 RCV PIC S9(5)V9(5) BINARY.
000007 01 A PIC S9(2) BINARY VALUE +1.
000008 PROCEDURE DIVISION.
000009 P-START.
000010 COMPUTE RCV = FUNCTION REM(A 0).
000011 END PROGRAM C3379.
```

C3379.cob 10: JMN3379I-S The second argument value of FUNCTION REM must not equal 0.

## JMN3380I-S

---

**The argument value of @1@ must be greater than 0.**

### Parameter Explanation

@1@ : FUNCTION LOG or FUNCTION LOG10

### Example

```
[C3380.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3380.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 RCV PIC S9(5)V9(5) BINARY.
000007 PROCEDURE DIVISION.
000008 P-START.
000009 COMPUTE RCV = FUNCTION LOG(-1.5).
000010 END PROGRAM C3380.
```

C3380.cob 9: JMN3380I-S The argument value of FUNCTION LOG must be greater than 0.

## JMN3381I-S

---

**The argument of @1@ must be a type alphabetic or a type alphanumeric, and must be one character.**

### Parameter Explanation

@1@ : FUNCTION ORD

### Example

```
[C3381.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3381.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC X(2).
000007 01 RCV PIC S9(2) BINARY.
000008 PROCEDURE DIVISION.
000009 P-START.
000010 COMPUTE RCV = FUNCTION ORD(A).
000011 END PROGRAM C3381.
```

C3381.cob 10: JMN3381I-S The argument of FUNCTION ORD must be a type alphabetic or a type alphanumeric, and must be one character.

## JMN3382I-S

---

**The types of argument in @1@ must be alphabetic, alphanumeric or numeric.**

### Parameter Explanation

@1@ : FUNCTION MAX, FUNCTION MIN, FUNCTION ORD-MAX, FUNCTION ORD-MIN

### Example

```
[C3382.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3382.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
```

```

000005 WORKING-STORAGE SECTION.
000006 01  A      PIC 1(8) BIT.
000007 01  B      PIC 9(1).
000008 01  RCV   PIC 9(1).
000009 PROCEDURE DIVISION.
000010 P-START.
000011      COMPUTE RCV = FUNCTION MAX(A B).
000012 END PROGRAM C3382.

```

C3382.cob 11: JMN3382I-S The types of argument in FUNCTION MAX must be alphabetic, alphanumeric or numeric.

## JMN3383I-S

**The argument of @1@ must be a nonnumeric literal or an alphanumeric item.**

### Parameter Explanation

@1@ : FUNCTION NUMVAL, FUNCTION NUMVAL-C

### Example

```

[C3383.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3383.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01  A      PIC A(10).
000007 01  B      PIC S9(8) BINARY.
000008 PROCEDURE DIVISION.
000009      COMPUTE B = FUNCTION NUMVAL(A)
000010 END PROGRAM C3383.

```

C3383.cob 9: JMN3383I-S The argument of FUNCTION NUMVAL must be a nonnumeric literal or an alphanumeric item.

## JMN3384I-W

**The argument of @1@ must be a nonnumeric literal or an alphanumeric item. An alphanumeric item is assumed.**

### Parameter Explanation

@1@ : FUNCTION NUMVAL, FUNCTION NUMVAL-C

### Example

```

[C3384.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3384.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01  TB.
000007 02  T1     PIC X(3).
000008 02  T2     PIC S9(5).
000009 01  B      PIC S9(8) BINARY.
000010 PROCEDURE DIVISION.
000011      COMPUTE B = FUNCTION NUMVAL(TB).
000012 END PROGRAM C3384.

```

C3384.cob 11: JMN3384I-W The argument of FUNCTION NUMVAL must be a nonnumeric literal or an alphanumeric item. An alphanumeric item is assumed.

## JMN3385I-S

---

**@1@ in the PERFORM statement must be a numeric literal or a numeric item.**

Parameter Explanation

@1@ : Function name

Example

```
[C3385.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3385.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC S9(8) BINARY.
000007 01 I PIC S9(2)V9(2) BINARY.
000008 PROCEDURE DIVISION.
000009 PERFORM VARYING I FROM FUNCTION RANDOM BY 0.1
000011 UNTIL I > 5
000012 COMPUTE A = A - 1
000013 END-PERFORM
000014 END PROGRAM C3385.
```

C3385.cob 9: JMN3385I-S FUNCTION RANDOM in the PERFORM statement must be a numeric literal or a numeric item.

### JMN3386I-S

---

**The argument of @1@ must be a fixed decimal point item or a decimal point literal.**

Parameter Explanation

@1@ : FUNCTION INTEGER, FUNCTION INTEGER-PART, FUNCTION REM

Example

```
[C3386.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3386.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A COMP-2 VALUE +3.5.
000007 01 RCV PIC S9(4) BINARY.
000008 PROCEDURE DIVISION.
000009 COMPUTE RCV = FUNCTION INTEGER( A ).
000010 END PROGRAM C3386.
```

C3386.cob 9: JMN3386I-S The argument of FUNCTION INTEGER must be a fixed decimal point item or a decimal point literal.

### JMN3388I-S

---

**The WITH phrase cannot be specified in a PROCEDURE DIVISION of a contained program or a CALL statement for a contained program.**

Example

```
[C3388.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3388.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A PIC S9(8) BINARY.
000006 01 B PIC S9(4) BINARY.
000007 01 C PIC X(1).
000008 PROCEDURE DIVISION.
```

```

000009     CALL "SUBPROG" USING A B C.
000010     EXIT PROGRAM.
000011 IDENTIFICATION DIVISION.
000012 PROGRAM-ID. SUBPROG.
000013 DATA DIVISION.
000014 LINKAGE          SECTION.
000015 01 A1     PIC S9(8) BINARY.
000016 01 B1     PIC S9(4) BINARY.
000017 01 C1     PIC X(1).
000018 PROCEDURE DIVISION WITH PASCAL LINKAGE
000019     USING A1 B1 C1.
000020     DISPLAY A1 B1 C1.
000021 END PROGRAM SUBPROG.
000022 END PROGRAM C3388.

```

C3388.cob 19: JMN3388I-S The WITH phrase cannot be specified in a PROCEDURE DIVISION of a contained program or a CALL statement for a contained program.

### JMN3390I-W

**In this system, PASCAL LINKAGE cannot be used. STDCALL LINKAGE is assumed.**

#### Example

```

[C3390.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3390.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A     PIC S9(8) BINARY.
000006 01 B     PIC S9(4) BINARY.
000007 01 C     PIC X(1).
000008 PROCEDURE DIVISION.
000009     CALL "SUBPROG" WITH PASCAL LINKAGE USING A B C.
000010 END PROGRAM C3390.

```

C3390.cob 9: JMN3390I-W In this system, PASCAL LINKAGE cannot be used. STDCALL LINKAGE is assumed.

### JMN3391I-W

**In this system, PASCAL LINKAGE or STDCALL LINKAGE cannot be used. C linkage is assumed.**

### JMN3392I-S

**In the @1@ statement, @2@ of the PROMPT phrase must be a one character alphabetic item, alphanumeric item, national item, nonnumeric literal, or national character literal.**

#### Parameter Explanation

@1@ : ACCEPT or DISPLAY

@2@ : Data name

#### Example

```

[C3392.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3392.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A     PIC X(8).
000006 01 B     PIC X(2).
000007 PROCEDURE DIVISION.

```

```
000008 ACCEPT A WITH PROMPT B.  
000009 END PROGRAM C3392.
```

C3392.cob 8: JMN3392I-S In the ACCEPT statement, 'B' of the PROMPT phrase must be a one character alphabetic item, alphanumeric item, national item, nonnumeric literal, or national character literal.

### JMN3393I-S

**@2@ of the AT phrase must be a numeric item with USAGE IS DISPLAY, or a numeric literal of 4 or 6 digits.**

#### Parameter Explanation

@2@ : Identifier

#### Example

```
[C3393.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C3393.  
000003 DATA DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005 01 A PIC X(8).  
000006 01 B PIC S9(5).  
000007 PROCEDURE DIVISION.  
000008 DISPLAY A AT 01001.  
000009 ACCEPT A AT B.  
000010 END PROGRAM C3393.
```

C3393.cob 8: JMN3393I-S Numeric literal of the AT phrase must be a numeric item with USAGE IS DISPLAY, or a numeric literal of 4 or 6 digits.

C3393.cob 9: JMN3393I-S 'B' of the AT phrase must be a numeric item with USAGE IS DISPLAY, or a numeric literal of 4 or 6 digits.

### JMN3394I-S

**The item length of @2@ cannot be variable in the @1@ statement.**

#### Parameter Explanation

@1@ : DISPLAY

@2@ : Identifier

#### Example

```
[C3394.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C3394.  
000003 DATA DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005 01 A PIC X(8).  
000006 01 L PIC S9(4) BINARY.  
000007 PROCEDURE DIVISION.  
000008 DISPLAY FUNCTION MAX( "A" )(1 : L) UPON CRT.  
000009 END PROGRAM C3394.
```

C3394.cob 8: JMN3394I-S The item length of FUNCTION MAX cannot be variable in the DISPLAY statement.

### JMN3395I-S

**The PREVIOUS phrase of the READ statement can only be specified for an indexed file or a relative file of dynamic access mode.**

## Example

```
[C3395.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3395.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE-1 ASSIGN TO SYS001
000007     ORGANIZATION IS INDEXED
000008     ACCESS MODE IS SEQUENTIAL
000009     RECORD KEY IS KEY-REC.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD FILE-1.
000013 01 REC-1.
000014 02 KEY-REC PIC XX.
000015 02 FILLER PIC X(78).
000016 PROCEDURE DIVISION.
000017     READ FILE-1 PREVIOUS.
000018 END PROGRAM C3395.
```

C3395.cob 17: JMN3395I-S The PREVIOUS phrase of the READ statement can only be specified for an indexed file or a relative file of dynamic access mode.

## JMN3396I-S

**@1@ being tested by the @2@ class condition must be an alphabetic, alphanumeric, alphanumeric-edited, numeric-edited, national or national-edited item.**

### Parameter Explanation

@1@ : Identifier

@2@ : Inspection type of class condition(JAPANESE, UNICODE1, BMP)

## Example

```
[C3396.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3396.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 A PIC S9(4) BINARY.
000008 PROCEDURE DIVISION.
000009     IF A IS JAPANESE THEN
000010         DISPLAY A
000011     END-IF.
000012 END PROGRAM C3396.
```

C3396.cob 9: JMN3396I-S 'A' being tested by the JAPANESE class condition must be an alphabetic, alphanumeric, alphanumeric-edited, numeric-edited, national or national-edited item.

## JMN3397I-S

**Argument @1@ of FUNCTION CAST-ALPHANUMERIC must be a national item or a national-edited item.**

### Parameter Explanation

@1@ : Function argument



## Example

```
[C3397.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3397.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 A PIC X(4).
000008 01 B PIC X(4).
000009 PROCEDURE DIVISION.
000010 MOVE FUNCTION CAST-ALPHANUMERIC( A ) TO B.
000011 STOP RUN.
```

C3397.cob 10: JMN3397I-S Argument 'A' of FUNCTION CAST-ALPHANUMERIC must be a national item or a national-edited item.

## JMN3398I-S

**Argument @1@ of FUNCTION NATIONAL must be an alphabetic, alphanumeric, alphanumeric-edited, numeric-edited or external decimal item.**

### Parameter Explanation

@1@ : Function argument

## Example

```
[C3398.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3398.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 A PIC S9(4) BINARY.
000008 01 B PIC N(4).
000009 PROCEDURE DIVISION.
000010 MOVE FUNCTION NATIONAL( A ) TO B.
000011 STOP RUN.
```

C3398.cob 10: JMN3398I-S Argument 'A' of FUNCTION NATIONAL must be an alphabetic, alphanumeric, alphanumeric-edited, numeric-edited or external decimal item.

## JMN3399I-S

**@1@ of the DISPLAY statement must be defined in the WORKING-STORAGE SECTION.**

### Parameter Explanation

@1@ : Identifier

## Example

```
[C3399.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3399.
000003 DATA DIVISION.
000004 BASED-STORAGE SECTION.
000005 01 REC-1 BASED ON PT.
000006 02 KEY-REC PIC XX.
000007 02 FILLER PIC X(78).
000008 WORKING-STORAGE SECTION.
000009 01 PT POINTER.
```

```
000010 PROCEDURE DIVISION.  
000011     DISPLAY REC-1 UPON CRT.  
000012 END PROGRAM C3399.
```

C3399.cob 11: JMN3399I-S 'REC-1' of the DISPLAY statement must be defined in the WORKING-STORAGE SECTION.

## JMN3400I-S

**@1@ of the ACCEPT statement must be defined in the WORKING-STORAGE SECTION.**

### Parameter Explanation

@1@ : Identifier

### Example

```
[C3400.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C3400.  
000003 DATA DIVISION.  
000004 BASED-STORAGE SECTION.  
000005 01 REC-1 BASED ON PT.  
000006     02 KEY-REC PIC XX.  
000007     02 FILLER PIC X(78).  
000008 WORKING-STORAGE SECTION.  
000009 01 PT POINTER.  
000010 PROCEDURE DIVISION.  
000011     ACCEPT REC-1 FROM CRT.  
000012 END PROGRAM C3400.
```

C3400.cob 11: JMN3400I-S 'REC-1' of the ACCEPT statement must be defined in the WORKING-STORAGE SECTION.

## JMN3401I-S

**@2@ of the @1@ statement cannot be specified as a group item.**

### Parameter Explanation

@1@ : DISPLAY or ACCEPT

@2@ : BELL or BLANK LINE

### Example

```
[C3401.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID. C3401.  
000003 DATA DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005 01 GRP.  
000006     02 A-ITEM PIC S9(4).  
000007     02 B-ITEM PIC X(8).  
000008 PROCEDURE DIVISION.  
000009     ACCEPT GRP WITH BELL.  
000010     DISPLAY GRP WITH BELL BLANK LINE.  
000011 END PROGRAM C3401.
```

C3401.cob 9: JMN3401I-S BELL of the ACCEPT statement cannot be specified as a group item.

C3401.cob 10: JMN3401I-S BELL of the DISPLAY statement cannot be specified as a group item.

C3401.cob 10: JMN3401I-S BLANK LINE of the DISPLAY statement cannot be specified as a group item.

## JMN3402I-S

---

**If @2@ in the @1@ statement is a numeric item or a numeric edited item, the SIZE phrase cannot be specified.**

**Parameter Explanation**

@1@ : DISPLAY or ACCEPT

@2@ : Identifier

**Example**

```
[C3402.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3402.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A PIC 99.99.
000006 01 B PIC S9(5).
000007 PROCEDURE DIVISION.
000008     DISPLAY A WITH SIZE 2.
000009     ACCEPT B WITH SIZE 2.
000010 END PROGRAM C3402.
```

C3402.cob 8: JMN3402I-S If 'A' in the DISPLAY statement is a numeric item or a numeric edited item, the SIZE phrase cannot be specified.

C3402.cob 9: JMN3402I-S If 'B' in the ACCEPT statement is a numeric item or a numeric edited item, the SIZE phrase cannot be specified.

**JMN3403I-S**

---

**If @2@ in the @1@ statement is specified with the JUSTIFIED clause, the SIZE phrase cannot be specified.**

**Parameter Explanation**

@1@ : DISPLAY or ACCEPT

@2@ : Identifier

**Example**

```
[C3403.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3403.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A PIC X(5) JUSTIFIED.
000006 PROCEDURE DIVISION.
000007     DISPLAY A WITH SIZE 2.
000008     ACCEPT A WITH SIZE 2.
000009 END PROGRAM C3403.
```

C3403.cob 7: JMN3403I-S If 'A' in the DISPLAY statement is specified with the JUSTIFIED clause, the SIZE phrase cannot be specified.

C3403.cob 8: JMN3403I-S If 'A' in the ACCEPT statement is specified with the JUSTIFIED clause, the SIZE phrase cannot be specified.

**JMN3404I-S**

---

**If a numeric literal is specified in the @1@ statement, the SIZE phrase cannot be specified.**

**Parameter Explanation**

@1@ : DISPLAY

## Example

```
[C3404.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3404.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 PROCEDURE DIVISION.
000006     DISPLAY 12345 WITH SIZE 2.
000007 END PROGRAM C3404.
```

C3404.cob 6: JMN3404I-S If a numeric literal is specified in the DISPLAY statement, the SIZE phrase cannot be specified.

## JMN3407I-S

---

**@2@ must be an alphanumeric item, a national item, an alphanumeric literal, or a national literal when untyped object reference identifier @1@ is specified in an INVOKE statement.**

### Parameter Explanation

@1@ : Identifier

@2@ : Identifier or 'literal'

## Example

```
[C3407.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3407.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 OBJA USAGE IS OBJECT REFERENCE.
000008 01 A PIC S9(8) COMP-5.
000009 01 B PIC X(5).
000010 PROCEDURE DIVISION.
000011     INVOKE OBJA A RETURNING B.
000012 END PROGRAM C3407.
```

C3407.cob 11: JMN3407I-S 'A' must be an alphanumeric item, a national item, an alphanumeric literal, or a national literal when untyped object reference identifier 'OBJA' is specified in an INVOKE statement.

## JMN3408I-S

---

**Method @2@ cannot be invoked by @1@.**

### Parameter Explanation

@1@ : Identifier

@2@ : Method name

## Example

```
[C3408.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C3408.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 OBJECT.
000006 PROCEDURE DIVISION.
000007*
000008 METHOD-ID. FM1.
000009 DATA DIVISION.
000010 WORKING-STORAGE SECTION.
```

```

000011 PROCEDURE DIVISION.
000012     INVOKE C3408 "FM1".
000013     EXIT METHOD.
000014 END METHOD FM1.
000015*
000016 END OBJECT.
000017 END CLASS C3408.

```

C3408.cob 12: JMN3408I-S Method 'FM1' cannot be invoked by 'C3408'.

### Explanation

When the factory method is called, it is necessary to specify the factory object. When the object method is called, it is necessary to specify the object instance.

### JMN3410I-S

**The BY CONTENT phrase cannot be specified in the INVOKE statement when an untyped object reference identifier, special class object reference identifier, or special class class-name @1@ is specified in the INVOKE statement.**

#### Parameter Explanation

@1@ : Identifier

#### Example

```

[C3410.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3410.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 OBJA USAGE IS OBJECT REFERENCE.
000008 01 A PIC S9(4) BINARY.
000009 PROCEDURE DIVISION.
000010     INVOKE OBJA "M1" USING BY CONTENT A.
000011 END PROGRAM C3410.

```

C3410.cob 10: JMN3410I-S The BY CONTENT phrase cannot be specified in the INVOKE statement when an untyped object reference identifier, special class object reference identifier, or special class class-name 'OBJA' is specified in the INVOKE statement.

### JMN3412I-S

**@1@ must conform to @2@.**

#### Parameter Explanation

@1@ : sending identifier

@2@ : receiving identifier

#### Example

```

[JMN3412I-A.cob]
000001 CLASS-ID. JMN3412I-A.
000002 OBJECT.
000003 PROCEDURE DIVISION.
000004*
000005 END OBJECT.
000006 END CLASS JMN3412I-A.
[JMN3412I-S.cob]
000001 CLASS-ID. JMN3412I-S.
000002 ENVIRONMENT DIVISION.

```

```

000003 CONFIGURATION SECTION.
000004 REPOSITORY.
000005 CLASS JMN3412I-A.
000006 OBJECT.
000007 PROCEDURE DIVISION.
000008*
000009 METHOD-ID. JMN3412-M1.
000010 DATA DIVISION.
000011 WORKING-STORAGE SECTION.
000012 01 OBJA OBJECT REFERENCE JMN3412I-A.
000013 LINKAGE SECTION.
000014 PROCEDURE DIVISION.
000015 SET OBJA TO SELF.
000016 END METHOD JMN3412-M1.
000017*
000018 END OBJECT.
000019 END CLASS JMN3412I-S.

```

JMN3412I-S.cob 15: JMN3412I-S Predefined object identifier SELF must conform to 'OBJA'.

### Explanation

This message is given when the source and target object reference identifiers are not a permitted combination for explicit or implicit SET statements. The conformance rules for SET statements are provided in Chapter 11 of the "NetCOBOL Language Reference".

### JMN3413I-S

**The relational operator for the comparison of object reference identifiers must be EQUAL(=) or NOT EQUAL(NOT =).**

### Example

```

[C3413.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C3413.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 OBJECT.
000006 PROCEDURE DIVISION.
000007*
000008 METHOD-ID. FM1.
000009 DATA DIVISION.
000010 WORKING-STORAGE SECTION.
000011 01 OBJA USAGE IS OBJECT REFERENCE C3413.
000012 PROCEDURE DIVISION.
000013 IF OBJA > NULL THEN
000014 EXIT METHOD.
000015 END METHOD FM1.
000016*
000017 END OBJECT.
000018 END CLASS C3413.

```

C3413.cob 13: JMN3413I-S The relational operator for the comparison of object reference identifiers must be EQUAL(=) or NOT EQUAL(NOT =).

### JMN3414I-S

**A 'RETURNING' phrase must be specified for a CALL statement which calls @1@. There is a RETURNING phrase in the PROCEDURE DIVISION of program @1@.**

### Parameter Explanation

@1@ : Program name

## Example

```
[C3414.cob]
000001 @OPTIONS CHECK(PRM)
000002 PROGRAM-ID.      C3414.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 PROCEDURE        DIVISION.
000006     CALL "C3414S".
000007     EXIT PROGRAM.
000008*
000009 PROGRAM-ID.      C3414S.
000010 DATA DIVISION.
000011 LINKAGE          SECTION.
000012     01 R PIC X(4).
000013 PROCEDURE DIVISION
000014     RETURNING R.
000015     EXIT PROGRAM.
000016 END PROGRAM      C3414S.
000017 END PROGRAM      C3414.
```

C3414.cob 6: JMN3414I-S A 'RETURNING' phrase must be specified for a CALL statement which calls 'C3414S'. There is a RETURNING phrase in the PROCEDURE DIVISION of program 'C3414S'.

## JMN3415I-S

**A 'RETURNING' phrase is not specified in the PROCEDURE DIVISION for method @1@.**

### Parameter Explanation

@1@ : Method name

### Example

```
[C3415.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C3415.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006 OBJECT.
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 OBJ3415  OBJECT REFERENCE C3415.
000010 PROCEDURE DIVISION.
000011*
000012 METHOD-ID.  FM-1.
000013 DATA DIVISION.
000014 WORKING-STORAGE SECTION.
000015 01 A OBJECT REFERENCE C3415.
000016 PROCEDURE DIVISION.
000017     INVOKE OBJ3415 "FM-2" RETURNING A.
000018 END METHOD FM-1.
000019*
000020 METHOD-ID.  FM-2.
000021 DATA DIVISION.
000022 WORKING-STORAGE SECTION.
000023 LINKAGE SECTION.
000024 PROCEDURE DIVISION.
000025 END METHOD FM-2.
000026*
000027 END OBJECT.
000028 END CLASS C3415.
```

C3415.cob 17: JMN3415I-S A 'RETURNING' phrase is not specified in the PROCEDURE DIVISION for method 'FM-2'.

## JMN3421I-S

**In-line invocation method @1@ does not have a RETURNING phrase. Figurative constant zero is assumed.**

### Parameter Explanation

@1@ : Method name

### Example

```
[C3421-C.cob]
000001 CLASS-ID. C3421-C.
000002 ENVIRONMENT DIVISION.
000003 CONFIGURATION SECTION.
000004 REPOSITORY.
000005 OBJECT.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 PROCEDURE DIVISION.
000009*
000010 METHOD-ID. C3421-M.
000011 DATA DIVISION.
000012 WORKING-STORAGE SECTION.
000013 LINKAGE SECTION.
000014 PROCEDURE DIVISION.
000015 END METHOD C3421-M.
000016*
000017 METHOD-ID. C3421-M2.
000018 DATA DIVISION.
000019 WORKING-STORAGE SECTION.
000020 01 WORK1 PIC X(50).
000021 LINKAGE SECTION.
000022 PROCEDURE DIVISION.
000023     MOVE SELF::"C3421-M" TO WORK1.
000024 END METHOD C3421-M2.
000025*
000026 END OBJECT.
000027 END CLASS C3421-C.
```

C3421-C.cob 23: JMN3421I-S In-line invocation method 'C3421-M' does not have a RETURNING phrase. Figurative constant zero is assumed.

## JMN3422I-S

**@1@ cannot be reference modified.**

### Parameter Explanation

@1@ : "Object property"

### Example

```
[C3422.cob]
000001 CLASS-ID. C3422.
000002 ENVIRONMENT DIVISION.
000003 CONFIGURATION SECTION.
000004 REPOSITORY.
000005 OBJECT.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 PROP-DATA PIC 9(10) PROPERTY.
000009 01 OBJ3422 OBJECT REFERENCE C3422.
```



```

000010 PROCEDURE DIVISION.
000011     METHOD-ID. C3422-M.
000012     DATA DIVISION.
000013     WORKING-STORAGE SECTION.
000014     01 X04 PIC X(4) VALUE "ABCD".
000015     LINKAGE SECTION.
000016     PROCEDURE DIVISION.
000017         MOVE PROP-DATA OF OBJ3422 (1:4) TO X04.    *> JMN3422I-S
000018     END METHOD C3422-M.
000019 END OBJECT.
000020 END CLASS C3422.

```

C3422.cob 17: JMN3422I-S Object property cannot be reference modified.

## JMN3423I-S

**The property accessor (GET method) is not defined.**

### Example

```

[C3423.cob]
000001 CLASS-ID. C3423.
000002 OBJECT.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 PROPDAT PIC S9(9) COMP-5 PROPERTY WITH NO GET.
000006 PROCEDURE DIVISION.
000007 END OBJECT.
000008 END CLASS C3423.
[P3423.cob]
000001 PROGRAM-ID. P3423.
000002 ENVIRONMENT DIVISION.
000003 CONFIGURATION SECTION.
000004     REPOSITORY.
000005         CLASS C3423.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 WDATA          PIC S9(9) COMP-5.
000009 01 OBJC3423      OBJECT REFERENCE C3423.
000010 PROCEDURE DIVISION.
000011     MOVE PROPDAT OF OBJC3423 TO WDATA.
000012 END PROGRAM P3423.

```

P3423.cob 11: JMN3423I-S The property accessor (GET method) is not defined.

### Explanation

This message is issued when an attempt is made to use a property as the source item in a statement when the property has no GET\_ method defined.

## JMN3424I-S

**The property accessor (SET method) is not defined.**

### Example

```

[C3424.cob]
000001 CLASS-ID. C3424.
000002 OBJECT.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 PROPDAT PIC S9(9) COMP-5 PROPERTY WITH NO SET.
000006 PROCEDURE DIVISION.
000007 END OBJECT.

```

```

000008 END CLASS C3424.
[P3424.cob]
000001 PROGRAM-ID. P3424.
000002 ENVIRONMENT DIVISION.
000003 CONFIGURATION SECTION.
000004 REPOSITORY.
000005 CLASS C3424.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 WDATA PIC S9(9) COMP-5.
000009 01 OBJC3424 OBJECT REFERENCE C3424.
000010 PROCEDURE DIVISION.
000011 MOVE WDATA TO PROPDAT OF OBJC3424.
000012 END PROGRAM P3424.

```

P3424.cob 11: JMN3424I-S The property accessor (SET method) is not defined.

### Explanation

This message is issued when an attempt is made to use a property as the target item in a statement when the property has no SET\_ method defined.

### JMN3427I-S

---

**An @1@ cannot be specified as a receiving field except in a MOVE or SET statement.**

#### Parameter Explanation

@1@ : "Object property"

### JMN3428I-S

---

**An object identifier cannot be specified in a @1@ statement.**

#### Parameter Explanation

@1@ : DISPLAY

#### Example

```

[C3428.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C3428.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006 OBJECT.
000007 PROCEDURE DIVISION.
000008 METHOD-ID. FM1.
000009 DATA DIVISION.
000010 WORKING-STORAGE SECTION.
000011 01 OBJA OBJECT REFERENCE C3428.
000012 PROCEDURE DIVISION.
000013 DISPLAY OBJA.
000014 EXIT METHOD.
000015 END METHOD FM1.
000016 END OBJECT.
000017 END CLASS C3428.

```

C3428.cob 13: JMN3428I-S An object identifier cannot be specified in a DISPLAY statement.

### JMN3429I-S

---

**Group item @1@ that includes an object reference cannot be specified.**

## Parameter Explanation

@1@ : Group item name

## Example

```
[C3429.cob]
000001 PROGRAM-ID. C3429.
000002 DATA DIVISION.
000003 WORKING-STORAGE SECTION.
000004 01 OR-GROUP.
000005     02 OBJREF OBJECT REFERENCE OCCURS 10.
000006 LINKAGE SECTION.
000007 PROCEDURE DIVISION.
000008     MOVE LOW-VALUE TO OR-GROUP
000009 END PROGRAM C3429.
```

C3429.cob 8: JMN3429I-S Group item 'OR-GROUP' that includes an object reference cannot be specified.

## JMN3430I-S

---

**The parameter number specified in the USING phrase of the INVOKE statement or in-line invocation must be the same parameter number specified in the USING phrase of the PROCEDURE DIVISION.**

## JMN3432I-S

---

**BY REFERENCE phrase items, RETURNING phrase items in an INVOKE statement, and argument items of in-line invocation cannot be reference modified.**

## Example

```
[C3432.cob]
000001 CLASS-ID. C3432.
000002 ENVIRONMENT DIVISION.
000003 CONFIGURATION SECTION.
000004 REPOSITORY.
000005 OBJECT.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 PROCEDURE DIVISION.
000009     METHOD-ID. C3432-M.
000010     DATA DIVISION.
000011     WORKING-STORAGE SECTION.
000012     01 WK1     PIC X(20).
000013     LINKAGE SECTION.
000014     01 RTN     PIC X(20).
000015     PROCEDURE DIVISION USING RTN.
000016         INVOKE SELF "C3432-M" USING WK1(1:18).
000017     END METHOD C3432-M.
000018 END OBJECT.
000019 END CLASS C3432.
```

C3432.cob 16: JMN3432I-S BY REFERENCE phrase items, RETURNING phrase items in an INVOKE statement, and argument items of in-line invocation cannot be reference modified.

## JMN3433I-S

---

**Moving all literals of two or more characters to a numeric item or a numeric edited item is an obsolete feature in @1@ COBOL.**

## Parameter Explanation

@1@ : ANS185

## Example

```
[C3433.cob]
000001 CLASS-ID. C3433.
000002 ENVIRONMENT DIVISION.
000003 CONFIGURATION SECTION.
000004 REPOSITORY.
000005*
000006 OBJECT.
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009 PROCEDURE DIVISION.
000010     METHOD-ID. C3433-M.
000011     DATA DIVISION.
000012     WORKING-STORAGE SECTION.
000013     01 D908 PIC 9(8).
000014     LINKAGE SECTION.
000015     PROCEDURE DIVISION.
000016         MOVE ALL '40' TO D908.
000017     END METHOD C3433-M.
000018 END OBJECT.
000019 END CLASS C3433.
```

C3433.cob 16: JMN3433I-S Moving all literals of two or more characters to a numeric item or a numeric edited item is an obsolete feature in ANSI85 COBOL.

## JMN3434I-S

---

**Comparing all literals of two or more characters with a numeric item or a numeric edited item is an obsolete feature in @1@ COBOL.**

### Parameter Explanation

@1@ : ANSI85

## Example

```
[C3434.cob]
000001 CLASS-ID. C3434.
000002 ENVIRONMENT DIVISION.
000003 CONFIGURATION SECTION.
000004 OBJECT.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE DIVISION.
000008     METHOD-ID. C3434-M.
000009     DATA DIVISION.
000010     WORKING-STORAGE SECTION.
000011     01 D908 PIC 9(8) VALUE 40404040.
000012     LINKAGE SECTION.
000013     PROCEDURE DIVISION.
000014         IF ALL '40' = D908
000015             DISPLAY "SAME"
000016         END-IF
000017     END METHOD C3434-M.
000018 END OBJECT.
000019 END CLASS C3434.
```

C3434.cob 14: JMN3434I-S Comparing all literals of two or more characters with a numeric item or a numeric edited item is an obsolete feature in ANSI85 COBOL.

## JMN3435I-S

---

**The class-name of a special class cannot be specified in a conditional expression.**

## Example

```
[C3435.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3435.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY. CLASS OL-1 AS "*COM".
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 OBJU OBJECT REFERENCE.
000009 PROCEDURE DIVISION.
000010     IF OBJU = OL-1 THEN
000011     EXIT PROGRAM.
000012 END PROGRAM C3435.
```

C3435.cob 10: JMN3435I-S The class-name of a special class cannot be specified in a conditional expression.

## JMN3436I-S

**The object reference identifier in the @1@ statement cannot refer to a special class except \*COM(OLE)-EXCEPTION.**

### Parameter Explanation

@1@ : RAISE, EXIT METHOD or EXIT PROGRAM

## Example

```
[C3436.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3436.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY. CLASS OL-1 AS "*COB-BINDTABLE".
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 OBJ-1 OBJECT REFERENCE OL-1.
000009 PROCEDURE DIVISION.
000010     RAISE OL-1.
000011 END PROGRAM C3436.
```

C3436.cob 10: JMN3436I-S The object reference identifier in the RAISE statement cannot refer to a special class except \*COM(OLE)-EXCEPTION.

## JMN3437I-S

**An in-line method invocation, or object property that returns object reference data, cannot be specified in a conditional expression.**

## Example

```
[C3437.cob]
000001 CLASS-ID. C3437.
000002 ENVIRONMENT DIVISION.
000003 CONFIGURATION SECTION.
000004 REPOSITORY.
000005 OBJECT.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 OBJ1 OBJECT REFERENCE C3437 PROPERTY.
000009 PROCEDURE DIVISION.
000010*
000011 METHOD-ID. METHOD1.
```

```

000012 DATA DIVISION.
000013 LINKAGE SECTION.
000014 01 OBJ2  OBJECT REFERENCE C3437.
000015 PROCEDURE DIVISION RETURNING OBJ2.
000016     IF SELF::"METHOD1" = NULL THEN
000017         EVALUATE OBJ1 OF SELF
000018         WHEN NULL
000019             DISPLAY "NULL"
000020         WHEN OTHER
000021             DISPLAY "OHTER"
000022         END-EVALUATE
000023     END-IF.
000024 END METHOD METHOD1.
000025*
000026 END OBJECT.
000027 END CLASS C3437.

```

C3437.cob 16: JMN3437I-S An in-line method invocation, or object property that returns object reference data, cannot be specified in a conditional expression.

C3437.cob 18: JMN3437I-S An in-line method invocation, or object property that returns object reference data, cannot be specified in a conditional expression.

## JMN3438I-W

**The XREF listing will not be output because severity code S errors have been encountered.**

### Example

```

[C3438.cob]
000001 @OPTIONS XREF
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3438.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A    PIC X(3).
000007 01 B    PIC N(3).
000008 PROCEDURE DIVISION.
000009     MOVE A TO B.
000010 END PROGRAM C3438.

```

## JMN3439I-S

**Internal boolean item @1@ must be defined so that it starts on a byte boundary.**

### Parameter Explanation

@1@ : data name

### Example

```

[C3439.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C3439.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006 IDENTIFICATION DIVISION.
000007 OBJECT.
000008 DATA DIVISION.
000009 PROCEDURE DIVISION.
000010 IDENTIFICATION DIVISION.
000011 METHOD-ID. C3439-1.
000012 DATA DIVISION.

```

```

000013 WORKING-STORAGE SECTION.
000014     01 A.
000015         02 A1 PIC 1(3) BIT.
000016         02 A2 PIC 1(5) BIT.
000017 PROCEDURE DIVISION.
000018     INVOKE SELF "C3439-2" USING A2.
000019 END METHOD C3439-1.
000020 IDENTIFICATION DIVISION.
000021 METHOD-ID. C3439-2.
000022 DATA DIVISION.
000023 LINKAGE SECTION.
000024     01 B PIC 1(5) BIT.
000025 PROCEDURE DIVISION USING B.
000026 END METHOD C3439-2.
000027 END OBJECT.
000028 END CLASS C3439.

```

C3439.cob 18: JMN3439I-S Internal boolean item 'A2' must be defined so that it starts on a byte boundary.

### Explanation

If you use an internal boolean item as a BY REFERENCE parameter, it must have an address that can be passed in the call or method invocation. Addresses only contain byte offsets, not bit offsets, so an internal boolean item used as a BY REFERENCE parameter must be aligned to a byte boundary. If it is not, this error will be issued.

### JMN3440I-S

**When an ANY LENGTH clause is specified to a formal parameter, the USING parameter of the INVOKE statement or the argument of the in-line method invocation corresponding to its formal parameter must be a parameter for which the BY REFERENCE phrase is specified or a nonnumeric literal or national character literal except for ALL literal.**

### Example

```

[JMN3440I-S.cob]
000001 CLASS-ID. C3440.
000002 FACTORY.
000003 PROCEDURE DIVISION.
000004*
000005 METHOD-ID. M3440-M1.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 LINKAGE SECTION.
000009 01 FPRM PIC X ANY LENGTH.
000010 PROCEDURE DIVISION USING FPRM.
000011     DISPLAY FPRM.
000012 END METHOD M3440-M1.
000013*
000014 METHOD-ID. M3440-M2.
000015 DATA DIVISION.
000016 WORKING-STORAGE SECTION.
000017 01 PRM PIC X(2).
000018 LINKAGE SECTION.
000019 PROCEDURE DIVISION.
000020     INVOKE SELF "M3440-M1"
000021     USING BY CONTENT PRM.
000022 END METHOD M3440-M2.
000023*
000024 END FACTORY.
000025 END CLASS C3440.
000025 END CLASS JMN3440I-S.

```

C3440.cob 20: JMN3440I-S When an ANY LENGTH clause is specified to a formal parameter, the USING parameter of the INVOKE statement or the argument of the in-line method invocation corresponding to its formal parameter must be a parameter for which the BY REFERENCE phrase is specified or a nonnumeric literal or national character literal except for ALL literal.

## JMN3441I-S

**Data-item @1@ with an ANY LENGTH clause cannot be specified in a USING or a RETURNING phrase of a @2@ statement.**

### Parameter Explanation

@1@ : Data name

@2@ : INVOKE or CALL

### Example

```
[C3441.cob]
000001 CLASS-ID. C3441.
000002 FACTORY.
000003 PROCEDURE DIVISION.
000004*
000005 METHOD-ID. M3441-M1.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 LINKAGE SECTION.
000009 01 PRM PIC X ANY LENGTH.
000010 PROCEDURE DIVISION USING PRM.
000011     CALL "PROGA" USING PRM.
000012 END METHOD M3441-M1.
000013*
000014 END FACTORY.
000015 END CLASS C3441.
```

C3441.cob 11: JMN3441I-S Data-item 'PRM' with an ANY LENGTH clause cannot be specified in a USING or a RETURNING phrase of a CALL statement.

## JMN3442I-S

**Data-item @1@ with an ANY LENGTH clause cannot be specified in a RETURNING phrase of a @2@ statement.**

### Parameter Explanation

@1@ : Data name

@2@ : INVOKE

### Example

```
[C3442.cob]
000001 CLASS-ID. C3442.
000002 OBJECT.
000003 PROCEDURE DIVISION.
000004*
000005 METHOD-ID. M3442-M1.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 LINKAGE SECTION.
000009 01 PRM PIC X ANY LENGTH.
000010 01 RET PIC X ANY LENGTH.
000011 PROCEDURE DIVISION USING PRM RETURNING RET.
000012     INVOKE SELF "M3442-M1" USING PRM RETURNING RET.
000013 END METHOD M3442-M1.
000014*
```



```
000015 END OBJECT.  
000016 END CLASS C3442.
```

C3442.cob 12: JMN3442I-S Data-item 'RET' with an ANY LENGTH clause cannot be specified in a RETURNING phrase of a INVOKE statement.

## JMN3443I-S

**Data-item @1@ with an ANY LENGTH clause cannot be specified in an argument of @2@.**

### Parameter Explanation

@1@ : Data name

@2@ : Function name

### Example

```
[C3443.cob]  
000001 CLASS-ID. C3443.  
000002 FACTORY.  
000003 PROCEDURE DIVISION.  
000004*  
000005 METHOD-ID. M3443.  
000006 DATA DIVISION.  
000007 WORKING-STORAGE SECTION.  
000008 01 WRCV          PIC X(25).  
000009 LINKAGE SECTION.  
000010 01 WDATA-AN     PIC X  ANY LENGTH.  
000011 PROCEDURE DIVISION USING WDATA-AN.  
000012     MOVE FUNCTION REVERSE(WDATA-AN) TO WRCV.  
000013 END METHOD M3443.  
000014*  
000015 END FACTORY.  
000016 END CLASS C3443.
```

C3443.cob 12: JMN3443I-S Data-item 'WDATA-AN' with an ANY LENGTH clause cannot be specified in an argument of FUNCTION REVERSE.

## JMN3444I-S

**Data-item @1@ with an ANY LENGTH clause cannot be specified in an INITIALIZE statement.**

### Parameter Explanation

@1@ : Data name

### Example

```
[C3444.cob]  
000001 CLASS-ID. C3444.  
000002 FACTORY.  
000003 PROCEDURE DIVISION.  
000004*  
000005 METHOD-ID. M3444.  
000006 DATA DIVISION.  
000007 WORKING-STORAGE SECTION.  
000008 LINKAGE SECTION.  
000009 01 WDATA-AN     PIC X  ANY LENGTH.  
000010 PROCEDURE DIVISION USING WDATA-AN.  
000011     INITIALIZE WDATA-AN.  
000012 END METHOD M3444.  
000013*  
000014 END FACTORY.  
000015 END CLASS C3444.
```

C3444.cob 11: JMN3444I-S Data-item 'WDATA-AN' with an ANY LENGTH clause cannot be specified in an INITIALIZE statement.

## JMN3445I-S

**Indirect reference class '@1@' must be specified in a repository paragraph.**

### Parameter Explanation

@1@ : Class name

### Example

```
[A.cob]
000001 CLASS-ID. A.
000002 END CLASS A.
[B.cob]
000001 CLASS-ID. B INHERITS A.
000002 ENVIRONMENT DIVISION.
000003 CONFIGURATION SECTION.
000004 REPOSITORY.
000005     CLASS A.
000006 END CLASS B.
[X.cob]
000001 CLASS-ID. X.
000002 ENVIRONMENT DIVISION.
000003 CONFIGURATION SECTION.
000004 REPOSITORY.
000005     CLASS B.
000006 FACTORY.
000007 PROCEDURE DIVISION.
000008*
000009 METHOD-ID. MX.
000010 DATA DIVISION.
000011 LINKAGE SECTION.
000012 01 OBJB OBJECT REFERENCE B.
000013 PROCEDURE DIVISION RETURNING OBJB.
000014 END METHOD MX.
000015*
000016 END FACTORY.
000017 END CLASS X.
[C3445.cob]
000001 PROGRAM-ID. C3445.
000002 ENVIRONMENT DIVISION.
000003 CONFIGURATION SECTION.
000004 REPOSITORY.
000005     CLASS A
000006     CLASS X.
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 OBJA OBJECT REFERENCE A.
000010 LINKAGE SECTION.
000011 PROCEDURE DIVISION.
000012     INVOKE X "MX" RETURNING OBJA
000013 END PROGRAM C3445.
```

C3445.cob 12: JMN3445I-S Indirect reference class 'B' must be specified in a repository paragraph.

## JMN3446I-S

**Data-item @1@ with an ANY LENGTH clause cannot be specified in a BY CONTENT phrase of an INVOKE statement.**

## Parameter Explanation

@1@ : Data name

## Example

```
[C3446.cob]
000001 CLASS-ID. C3446.
000002 FACTORY.
000003 PROCEDURE DIVISION.
000004*
000005 METHOD-ID. M3446.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 LINKAGE SECTION.
000009 01 PRM PIC X ANY LENGTH.
000010 PROCEDURE DIVISION USING PRM.
000011     INVOKE SELF "M3446" USING BY CONTENT PRM.
000012 END METHOD M3446.
000013*
000014 END FACTORY.
000015 END CLASS C3446.
```

C3446.cob 11: JMN3446I-S Data-item 'PRM' with an ANY LENGTH clause cannot be specified in a BY CONTENT phrase of an INVOKE statement.

## JMN3447I-S

**Method @1@ for which the ANY LENGTH clause is specified for an item of the RETURNING phrase in the PROCEDURE DIVISION header cannot be invoked by an in-line invocation.**

## Parameter Explanation

@1@ : Method name

## Example

```
[C3447.cob]
000001 CLASS-ID. C3447.
000002 FACTORY.
000003 PROCEDURE DIVISION.
000004*
000005 METHOD-ID. M3447.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 X10 PIC X(10).
000009 LINKAGE SECTION.
000010 01 RET PIC X ANY LENGTH.
000011 PROCEDURE DIVISION RETURNING RET.
000012     MOVE SELF :: "M3447" TO X10
000013 END METHOD M3447.
000014*
000015 END FACTORY.
000016 END CLASS C3447.
```

C3447.cob 12: JMN3447I-S Method 'M3447' for which the ANY LENGTH clause is specified for an item of the RETURNING phrase in the PROCEDURE DIVISION header cannot be invoked by an in-line invocation.

## JMN3448I-W

**@1@ in the RAISING phrase of the @2@ statement must be an object reference identifier. It must refer to a class name that is specified in the RAISING phrase of the PROCEDURE DIVISION header.**

## Parameter Explanation

@1@ : Identifier

@2@ : EXIT METHOD or EXIT PROGRAM

## Explanation

This message is given if either:

- The item specified in the RAISING phrase of either the EXIT METHOD or EXIT PROGRAM statements is not an object reference, or;
- The object identifier specified in that RAISING phrase does not reference the class specified in the RAISING phrase of the PROCEDURE DIVISION header.

## JMN3449I-S

---

**An EXIT METHOD statement with a RAISING phrase cannot be specified in a \_FINALIZE method.**

### Example

```
[C3449.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C3449 INHERITS FJBASE.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006     CLASS FJBASE.
000007*
000008 OBJECT.
000009 PROCEDURE DIVISION.
000010 METHOD-ID. _FINALIZE OVERRIDE.
000011 PROCEDURE DIVISION.
000012     EXIT METHOD RAISING C3449.
000013 END METHOD _FINALIZE.
000014 END OBJECT.
000015 END CLASS C3449.
```

C3449.cob 12: JMN3449I-S An EXIT METHOD statement with a RAISING phrase cannot be specified in a \_FINALIZE method.

## JMN3450I-W

---

**The result of the MOVE is undefined because the area of sending item @1@ and the area of receiving item @2@ overlap.**

## Parameter Explanation

@1@ : sending item

@2@ : receiving item

## Example

```
[C3450.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3450.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 GRP.
000006     02 A-GRP.
000007         03 A-AREA PIC X(4).
000008         03 FILLER PIC X(1).
000009     02 B-GRP REDEFINES A-GRP.
000010         03 FILLER PIC X(1).
000011         03 B-AREA PIC X(4).
```

```

000012 PROCEDURE DIVISION.
000013     MOVE A-AREA TO B-AREA.
000014 END PROGRAM C3450.

```

C3450.cob 13: JMN3450I-W The result of the MOVE is undefined because the area of sending item 'A-AREA' and the area of receiving item 'B-AREA' overlap.

### Explanation

This message is given to warn you that the sending and receiving areas overlap in an implicit or explicit MOVE statement. The results of the move are not defined as they depend on the architecture of the machine - what size chunks of data are moved from the sending to the receiving item.

## JMN3451I-W

**@2@ (@3@) is specified for a formal parameter of @1@ type. Sending and receiving may not function correctly.**

### Parameter Explanation

@1@ : Name of VT type(VT\_xxxxx)

@2@ : Data name

@3@ : Data type

### Example

```

[C3451.cob]
000001 PROGRAM-ID. C3451.
000002 ENVIRONMENT DIVISION.
000003 CONFIGURATION SECTION.
000004 REPOSITORY.
000005     CLASS Excel-Range AS "*COM:EXCEL:Range"
000006     .
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 CELL-OBJ OBJECT REFERENCE Excel-Range.
000010 01 ERR-COUNT PIC X(4).
000011 01 OK-COUNT PIC S9(9) COMP-5.
000012 PROCEDURE DIVISION.
000013*
000014     INVOKE CELL-OBJ "GET-Count" RETURNING ERR-COUNT
000015     INVOKE CELL-OBJ "GET-Count" RETURNING OK-COUNT
000016*
000017 END PROGRAM C3451.

```

C3451.cob 14: JMN3451I-W 'ERR-COUNT' (alphanumeric) is specified for a formal parameter of VT\_I4 type. Sending and receiving may not function correctly.

## JMN3453I-S

**The OMITTED phrase can only be specified for a parameter of a COM server method that has an optional attribute.**

### Example

```

[C3453.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3453.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005     REPOSITORY.
000006     CLASS EXCEL AS "*COM:EXCEL:APPLICATION"
000007     CLASS WORKBOOK AS "*COM:EXCEL:WORKBOOK"

```

```

000008      CLASS WORKBOOKS AS  "*COM:EXCEL:WORKBOOKS"
000009      .
000010 DATA          DIVISION.
000011 WORKING-STORAGE SECTION.
000012 01 WEXCEL      OBJECT REFERENCE EXCEL.
000013 01 WBOOK      OBJECT REFERENCE WORKBOOK.
000014 01 WFILENAME   OBJECT REFERENCE.
000015 PROCEDURE      DIVISION.
000016      INVOKE EXCEL "NEW"  RETURNING WEXCEL.
000017*
000018      INVOKE WORKBOOKS OF WEXCEL "OPEN"
000019          USING          OMITTED
000020          RETURNING WBOOK.
000021*
000022 END PROGRAM C3453.

```

C3453.cob 19: JMN3453I-S The OMITTED phrase can only be specified for a parameter of a COM server method that has an optional attribute.

## JMN3454I-S

**The OMITTED phrase can only be specified as a parameter if @1@ is a special class object reference identifier.**

### Parameter Explanation

@1@ : Identifier

### Example

```

[C3454.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C3454.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006      .
000007 OBJECT.
000008 PROCEDURE DIVISION.
000009*
000010 METHOD-ID. MY-METHOD.
000011 DATA DIVISION.
000012 WORKING-STORAGE SECTION.
000013 01 OBJ3454      OBJECT REFERENCE C3454.
000014 LINKAGE SECTION.
000015 01 PRM1        PIC X(10).
000016 PROCEDURE DIVISION USING PRM1.
000017      INVOKE OBJ3454 "MY-METHOD"  USING OMITTED.
000018 END METHOD MY-METHOD.
000019*
000020 END OBJECT.
000021 END CLASS C3454.

```

C3454.cob 17: JMN3454I-S The OMITTED phrase can only be specified as a parameter if 'OBJ3454' is a special class object reference identifier.

## JMN3455I-S

**@1@ must be conformed to @2@ (@3@ type).**

### Parameter Explanation

@1@ : name of identifier

@2@ : "formal parameter"

@3@ : VT type of formal parameter

### Example

```
[C3455.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C3455.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION SECTION.
000005     REPOSITORY.
000006         CLASS EXCEL      AS  "*COM:EXCEL:APPLICATION"
000007         CLASS WORKBOOK AS  "*COM:EXCEL:WORKBOOK"
000008         CLASS WORKBOOKS AS "*COM:EXCEL:WORKBOOKS"
000009         .
000010 DATA           DIVISION.
000011 WORKING-STORAGE SECTION.
000012 01 WEXCEL          OBJECT REFERENCE EXCEL.
000013 01 WBOOK           OBJECT REFERENCE WORKBOOK.
000014 01 WFILENAME       OBJECT REFERENCE.
000015 PROCEDURE        DIVISION.
000016     INVOKE EXCEL "NEW" RETURNING WEXCEL.
000017*
000018     INVOKE WORKBOOKS OF WEXCEL "OPEN"
000019         USING      WFILENAME
000020         RETURNING WBOOK.
000021*
000022 END PROGRAM C3455.
```

C3455.cob 19: JMN3455I-S 'WFILENAME' must be conformed to formal parameter (VT\_BSTR type).

### JMN3456I-S

**A figurative constant and the ALL literal cannot be specified for the parameter of a special class method.**

### Example

```
[C3456.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C3456.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION SECTION.
000005     REPOSITORY.
000006         CLASS EXCEL      AS  "*COM:EXCEL:APPLICATION"
000007         CLASS WORKBOOK AS  "*COM:EXCEL:WORKBOOK"
000008         CLASS WORKBOOKS AS "*COM:EXCEL:WORKBOOKS"
000009         .
000010 DATA           DIVISION.
000011 WORKING-STORAGE SECTION.
000012 01 WEXCEL          OBJECT REFERENCE EXCEL.
000013 01 WBOOK           OBJECT REFERENCE WORKBOOK.
000014 01 WFILENAME       OBJECT REFERENCE.
000015 PROCEDURE        DIVISION.
000016     INVOKE EXCEL "NEW" RETURNING WEXCEL.
000017*
000018     INVOKE WORKBOOKS OF WEXCEL "OPEN"
000019         USING      SPACE
000020         RETURNING WBOOK.
000021*
000022 END PROGRAM C3456.
```

C3456.cob 19: JMN3456I-S A figurative constant and the ALL literal cannot be specified for the parameter of a special class method.

### JMN3457I-I

---

**@2@ (@3@) is specified for a formal parameter of @1@ type.**

**Parameter Explanation**

@1@ : Name of VT type(VT\_xxxxx)

@2@ : Data name

@3@ : Data type

**Example**

```
[C3457.cob]
000001 PROGRAM-ID. C3457.
000002 ENVIRONMENT DIVISION.
000003 CONFIGURATION SECTION.
000004 REPOSITORY.
000005 CLASS EXCEL-RANGE AS "*COM:EXCEL:RANGE".
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 B PIC X(20).
000009 01 RANGE-OBJ OBJECT REFERENCE EXCEL-RANGE.
000010 01 RCV COMP-2.
000011 PROCEDURE DIVISION.
000012 INVOKE RANGE-OBJ "GET-Text" RETURNING B.
000013 END PROGRAM C3457.
```

C3457.cob 12: JMN3457I-I 'B' (alphanumeric) is specified for a formal parameter of VT\_VARIANT type.

**JMN3458I-S**

---

**Data-name @1@ of the CONTROL phrase cannot be an alphanumeric item in the @2@ statement.**

**Parameter Explanation**

@1@ : Data name

@2@ : ACCEPT or DISPLAY

**Example**

```
[C3458.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3458.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 CTRL-DATA PIC N(20).
000006 01 SCRN-DATA PIC N(16).
000007 SCREEN SECTION.
000008 01 ITITLE1 CONTROL CTRL-DATA.
000009 02 LINE NUMBER IS 3 COLUMN NUMBER IS 23.
000010 PROCEDURE DIVISION.
000011 DISPLAY ITITLE1.
000012 DISPLAY SCRN-DATA WITH CONTROL CTRL-DATA.
000013 EXIT PROGRAM.
000014 END PROGRAM C3458.
```

C3458.cob 11: JMN3458I-S Data-name 'CTRL-DATA' of the CONTROL phrase cannot be an alphanumeric item in the DISPLAY statement.

C3458.cob 12: JMN3458I-S Data-name 'CTRL-DATA' of the CONTROL phrase cannot be an alphanumeric item in the DISPLAY statement.

**JMN3459I-S**



---

**If the @1@ argument of FUNCTION UCS2-OF is either an alphabetic, alphanumeric or alphanumeric-edited item, then the encoding format must be UTF8.**

**Parameter Explanation**

@1@ : Argument of function

**Example**

```
[C3459.cob]
000001 @OPTIONS RCS(UTF16)
000002 PROGRAM-ID. C3459.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 N20 PIC N(20).
000007 01 INTD PIC S9(9).
000008 PROCEDURE DIVISION.
000009     MOVE FUNCTION UCS2-OF (INTD) TO N20
000010 END PROGRAM C3459.
```

C3459.cob 9: JMN3459I-S If the 'INTD' argument of FUNCTION UCS2-OF is either an alphabetic, alphanumeric or alphanumeric-edited item, then the encoding format must be UTF8.

**JMN3460I-S**

---

**If the '@1@' argument of FUNCTION UTF8-OF is either a national item or a national-edited item, then the encoding format must be UTF16.**

**Parameter Explanation**

@1@ : Argument of function

**Example**

```
[C3460.cob]
000001 @OPTIONS RCS(UTF16)
000002 PROGRAM-ID. C3460.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 X20 PIC X(20).
000007 01 NGRP.
000008     02 N10 PIC N(10).
000009 PROCEDURE DIVISION.
000010     MOVE FUNCTION UTF8-OF (NGRP) TO X20
000011 END PROGRAM C3460.
```

C3460.cob 10: JMN3460I-S If the 'NGRP' argument of FUNCTION UTF8-OF is either a national item or a national-edited item, then the encoding format must be UTF16.

**JMN3461I-S**

---

**Argument @1@ of FUNCTION STORED-CHAR-LENGTH must be an alphabetic, alphanumeric, alphanumeric-edited, national or national-edited item.**

**Parameter Explanation**

@1@ : Argument of function

**Example**

```
[C3461.cob]
000001 PROGRAM-ID. C3461.
000002 ENVIRONMENT DIVISION.
```

```

000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 LEN PIC 9(3).
000006 01 GRP.
000007 02 X10 PIC X(10).
000008 02 X20 PIC X(20).
000009 01 NUM01 PIC S9(4).
000010 PROCEDURE DIVISION.
000011     COMPUTE LEN = FUNCTION STORED-CHAR-LENGTH (GRP)
000012     COMPUTE LEN = FUNCTION STORED-CHAR-LENGTH (NUM01)
000013 END PROGRAM C3461.

```

C3461.cob 11: JMN3461I-S Argument 'GRP' of FUNCTION STORED-CHAR-LENGTH must be an alphabetic, alphanumeric, alphanumeric-edited, national or national-edited item.

C3461.cob 12: JMN3461I-S Argument 'NUM01' of FUNCTION STORED-CHAR-LENGTH must be an alphabetic, alphanumeric, alphanumeric-edited, national or national-edited item.

## JMN3462I-W

**If compile option RCS(UTF16) or ENCODE is specified, then the size is not compared as a national language when the national part of the group item @1@ includes a national item.**

### Parameter Explanation

@1@ : Identifier(group item)

### Example

```

[C3462.cob]
000001 @OPTIONS RCS(UTF16)
000002 PROGRAM-ID. C3462.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 X20 PIC X(20).
000007 01 NGRP.
000008 02 N10 PIC N(10).
000009 PROCEDURE DIVISION.
000010     IF X20 > NGRP THEN
000011         DISPLAY "X20 BIGGER"
000012     ELSE
000013         DISPLAY "X20 SMALLER"
000014     END-IF
000015 END PROGRAM C3462.

```

C3462.cob 10: JMN3462I-W If compile option RCS(UTF16) or ENCODE is specified, then the size is not compared as a national language when the national part of the group item 'NGRP' includes a national item.

## JMN3463I-S

**When receiving item @2@ is a strongly-typed group item, sending item @1@ must be a strongly-typed group item of the same type as @2@.**

### Parameter Explanation

@1@ : Identifier

@2@ : Identifier

### Example

```

[C3463.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3463.

```

```

000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 TYPE-A TYPEDEF STRONG.
000008     02 A1 PIC S9(4) COMP-5.
000009     02 A2 PIC X(50).
000010 01 TYPE-B TYPEDEF STRONG.
000011     02 B1 PIC X(25).
000012 01 DATA-A TYPE TYPE-A.
000013 01 DATA-B TYPE TYPE-B.
000014 PROCEDURE DIVISION.
000015     MOVE DATA-A TO DATA-B.
000016     EXIT PROGRAM.
000017 END PROGRAM C3463.

```

C3463.cob 15: JMN3463I-S When receiving item 'DATA-B' is a strongly-typed group item, sending item 'DATA-A' must be a strongly-typed group item of the same type as 'DATA-B'.

## JMN3464I-S

**If either data item is a strongly-typed group item, both data items must be of the same type.**

### Example

```

[C3464.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3464.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 STG TYPEDEF STRONG.
000006     02 A PIC X(40).
000007     02 B PIC N(20).
000008 01 ABC TYPE STG.
000009 01 DEF PIC X(80).
000010 PROCEDURE DIVISION.
000011     IF ABC = DEF THEN
000012         DISPLAY "OK"
000013     END-IF.
000014 END PROGRAM C3464.

```

C3464.cob 11: JMN3464I-S If either data item is a strongly-typed group item, both data items must be of the same type.

## JMN3465I-S

**If @2@ of an INTO phrase in a @1@ statement is a strongly-typed group item, @3@ must have one record description.**

### Parameter Explanation

@1@ : READ or RETURN

@2@ : Identifier

@3@ : File name

### Example

```

[C3465.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3465.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT A-FILE ASSIGN TO SYS001.

```

```

000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD A-FILE.
000010 01 RECA1 PIC X(80).
000011 01 RECA2 PIC X(100).
000012 WORKING-STORAGE SECTION.
000013 01 STG TYPEDEF STRONG.
000014 02 A PIC X(40).
000015 02 B PIC N(20).
000016 01 INTOA TYPE STG.
000017 PROCEDURE DIVISION.
000018 OPEN INPUT A-FILE.
000019 READ A-FILE INTO INTOA.
000020 END PROGRAM C3465.

```

C3465.cob 19: JMN3465I-S If 'INTOA' of an INTO phrase in a READ statement is a strongly-typed group item, 'A-FILE' must have one record description.

## JMN3466I-S

**When a strongly-typed group item specified in a USING or RETURNING phrase of an INVOKE statement, or specified in an argument of an in-line method invocation, the group item must be level number 01.**

### Example

```

[C3466.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3466.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 OBJU OBJECT REFERENCE.
000008 01 TYPE-A TYPEDEF STRONG.
000009 02 GP.
000010 03 A1 PIC S9(4) COMP-5.
000011 03 A2 PIC X(50).
000012 01 DATA-A TYPE TYPE-A.
000013 PROCEDURE DIVISION.
000014 INVOKE OBJU "M1" USING GP OF DATA-A.
000015 EXIT PROGRAM.
000016 END PROGRAM C3466.

```

C3466.cob 14: JMN3466I-S When a strongly-typed group item specified in a USING or RETURNING phrase of an INVOKE statement, or specified in an argument of an in-line method invocation, the group item must be level number 01.

## JMN3467I-S

**A strongly-typed group item @1@ is specified in a place where it cannot be specified.**

### Parameter Explanation

@1@ : Strongly-typed group item

### Example

```

[C3467.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3467.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 STG TYPEDEF STRONG.
000006 02 A PIC X(40).
000007 02 B PIC N(20).

```

```

000008 01 ABC    TYPE STG.
000009 01 DEF    PIC X(80).
000010 PROCEDURE DIVISION.
000011     ACCEPT ABC.
000012 END PROGRAM C3467.

```

C3467.cob 11: JMN3467I-S A strongly-typed group item 'ABC' is specified in a place where it cannot be specified.

## JMN3468I-S

**Strongly-typed items, or elementary items that are subordinate to strongly-typed group items (other than those of alphanumeric or national categories), cannot be reference modified.**

### Example

```

[C3468.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3468.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 TYPE-A  TYPEDEF STRONG.
000008     02 GP.
000009         03 A1  PIC XX/XX/XX.
000010         03 A2  PIC X(50).
000011 01 DATA-A  TYPE TYPE-A.
000012 01 DATA-B  PIC X(5).
000013 PROCEDURE DIVISION.
000014     MOVE A1(1:5) TO DATA-B.
000015     EXIT PROGRAM.
000016 END PROGRAM C3468.

```

C3468.cob 14: JMN3468I-S Strongly-typed items, or elementary items that are subordinate to strongly-typed group items (other than those of alphanumeric or national categories), cannot be reference modified.

## JMN3469I-S

**An in-line method invocation, or an object property whose returning item is a strongly-typed group item containing object reference data, cannot be specified in a conditional expression.**

### Example

```

[C3469.cob]
000001 CLASS-ID. C3469.
000002 ENVIRONMENT DIVISION.
000003 CONFIGURATION SECTION.
000004 OBJECT.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE DIVISION.
000008*
000009 METHOD-ID. OM1.
000010 DATA DIVISION.
000011 WORKING-STORAGE SECTION.
000012 01 A TYPEDEF STRONG.
000013     02 D OBJECT REFERENCE C3469.
000014 01 WABC TYPE A.
000015 LINKAGE SECTION.
000016 PROCEDURE DIVISION.
000017     IF SELF::"OM2" = WABC THEN
000018         EXIT METHOD.
000019 END METHOD OM1.
000020*

```

```

000021 METHOD-ID. OM2.
000022 DATA DIVISION.
000023 WORKING-STORAGE SECTION.
000024 LINKAGE SECTION.
000025 01 A TYPEDEF STRONG.
000026 02 D OBJECT REFERENCE C3469.
000027 01 ABC TYPE A.
000028 PROCEDURE DIVISION RETURNING ABC.
000029 END METHOD OM2.
000030*
000031 END OBJECT.
000032 END CLASS C3469.

```

C3469.cob 17: JMN3469I-S An in-line method invocation, or an object property whose returning item is a strongly-typed group item containing object reference data, cannot be specified in a conditional expression.

## JMN3470I-W

**If compile option RCS(UTF16) or ENCODE is specified, then it cannot be called correctly if the group item @1@, which includes the national item, is specified as a calling name.**

### Parameter Explanation

@1@ : Identifier(group item)

### Example

```

[C3470I-W.cob]
000001 @OPTIONS RCS(UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3470I-W.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 NMIXGR.
000009 02 X04 PIC X(4).
000010 02 N10 PIC N(10).
000011 PROCEDURE DIVISION.
000012 CALL NMIXGR.
000013 EXIT PROGRAM.
000014 END PROGRAM C3470I-W.

```

C3470I-W.cob 12: JMN3470I-W If compile option RCS(UTF16) or ENCODE is specified, then it cannot be called correctly if the group item 'NMIXGR', which includes the national item, is specified as a calling name.

## JMN3471I-W

**If compile option RCS(UTF16) or ENCODE is specified, then the size is not compared as a national language when the national part of the group item @1@ includes a national item.**

### Parameter Explanation

@1@ : Identifier(group item)

### Example

```

[JMN3471I-W.cob]
000001 @OPTIONS RCS(UTF16)
000002 PROGRAM-ID. JMN3471I-W.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT SMFILE ASSIGN SM1F.
000007 SELECT USFILE ASSIGN SEQ1F.

```

```

000008      SELECT GVFILE ASSIGN SEQ2F.
000009 DATA DIVISION.
000010 FILE SECTION.
000011      SD SMFILE.
000012      01 R1.
000013          02 KEY-1 PIC X(4).
000014          02 KEY-2.
000015              03 KEY-1-1 PIC X(2).
000016              03 KEY-1-2 PIC N(1).
000017          02 R1-1 PIC X(72).
000018      FD USFILE.
000019      01 USR01 PIC X(80).
000020      FD GVFILE.
000021      01 GIV01 PIC X(80).
000022 WORKING-STORAGE SECTION.
000023 PROCEDURE DIVISION.
000024      SORT      SMFILE      ON ASCENDING KEY KEY-2
000025              USING      USFILE
000026              GIVING      GVFILE
000027 END PROGRAM JMN3471I-W.

```

JMNC3471I-W.cob 24: JMN3471I-W If compile option RCS(UTF16) or ENCODE is specified, then the size is not compared as a national language when the national part of the group item 'KEY-2' includes a national item.

## JMN3472I-W

**If compile option RCS(UTF16) or ENCODE is specified, then in the group item @1@, which includes the national items, the national language part is not displayed as national language in the DISPLAY statement.**

### Parameter Explanation

@1@ : Identifier(group item)

### Example

```

[C3472I-W.cob]
000001 @OPTIONS RCS(UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3472I-W.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008      01 NMIXGR.
000009          02 X04 PIC X(4).
000010          02 N10 PIC N(10).
000011 PROCEDURE DIVISION.
000012      DISPLAY NMIXGR.
000013      EXIT PROGRAM.
000014 END PROGRAM C3472I-W.

```

C3472I-W.cob 12: JMN3472I-W If compile option RCS(UTF16) or ENCODE is specified, then in the group item 'NMIXGR', which includes the national items, the national language part is not displayed as national language in the DISPLAY statement.

## JMN3473I-S

**When compile option RCS(UTF16) or ENCODE is specified, then a WRITE statement of a line sequential file cannot contain both a national item and a group item @1@.**

### Parameter Explanation

@1@ : Identifier(group item)

## Example

```
[C3473I-S.cob]
000001 @OPTIONS RCS(UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3473I-S.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007     SELECT A-FILE ASSIGN TO SYS001
000008     ORGANIZATION IS LINE SEQUENTIAL.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD A-FILE.
000012     01 A-RECORD.
000013     02 X24 PIC X(24).
000014 WORKING-STORAGE SECTION.
000015     01 XNMIXGR.
000016     02 X04 PIC X(24).
000017     02 N10 PIC N(10).
000018 PROCEDURE DIVISION.
000019     WRITE A-RECORD FROM XNMIXGR
000020     EXIT PROGRAM.
000021 END PROGRAM C3473I-S.
```

C3473I-S.cob 19: JMN3473I-S When compile option RCS(UTF16) or ENCODE is specified, then a WRITE statement of a line sequential file cannot contain both a national item and a group item 'XNMIXGR'.

## JMN3476I-S

**An EXIT statement with a SECTION phrase can only be specified in a section.**

### Example

```
[C3476.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3476.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE DIVISION.
000008     EXIT SECTION      *> JMN3476I-S
000009     .
000010 A SECTION.
000011     EXIT SECTION      *> OK
000012     .
000013 END PROGRAM C3476.
```

C3476.cob 8: JMN3476I-S An EXIT statement with a SECTION phrase can only be specified in a section.

## JMN3482I-S

**@1@ defined in the LINKAGE SECTION must be specified in a USING phrase or a RETURNING phrase of the PROCEDURE DIVISION, or in a USING phrase of an ENTRY statement.**

### Parameter Explanation

@1@ : Identifier

### Example

```
[C3482.cob]
000001 IDENTIFICATION DIVISION.
```



```

000002 PROGRAM-ID.      C3482.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 LINKAGE SECTION.
000006 01 WX3482       PIC X(10).
000007 PROCEDURE       DIVISION.
000008     MOVE "ERROR3482" TO WX3482  *> JMN3482I-S
000009 END PROGRAM      C3482.

```

C3482.cob 8: JMN3482I-S 'WX3482' defined in the LINKAGE SECTION must be specified in a USING phrase or a RETURNING phrase of the PROCEDURE DIVISION, or in a USING phrase of an ENTRY statement.

### Explanation

Define the data item used as work data in WORKING-STORAGE SECTION.

## JMN3483I-S

**For the main program, the parameter specified for the USING phrase of the PROCEDURE DIVISION header should be only one group item which does not exceed 102 bytes, and the first subordinate elementary item must be a 2 byte binary item.**

### Example

```

[C3483.cob]
000001 @OPTIONS MAIN
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C3483.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 LINKAGE          SECTION.
000007 01 WPRM1.
000008   02 WPRM1L      PIC 9(4).
000009   02 WPRM1X     PIC 9(4).
000010 01 WPRM2.
000011   02 WPRM1L      PIC 9(4).
000012   02 WPRM1X     PIC 9(4).
000013 PROCEDURE     DIVISION
000014             USING WPRM1 WPRM2.
000015     MOVE ZERO TO WPRM2
000016 END PROGRAM      C3483.

```

C3483.cob 14: JMN3483I-S For the main program, the parameter specified for the USING phrase of the PROCEDURE DIVISION header should be only one group item which does not exceed 102 bytes, and the first subordinate elementary item must be a 2 byte binary item.

C3483.cob 15: JMN3483I-S For the main program, the parameter specified for the USING phrase of the PROCEDURE DIVISION header should be only one group item which does not exceed 102 bytes, and the first subordinate elementary item must be a 2 byte binary item.

### Explanation

In the LINKAGE section of the main program, only one data item for receiving the parameter in the global server system format can be defined.

When the format of the data item in the LINKAGE section is wrong, this diagnostic message is output.

Refer to the "NetCOBOL User's Guide" for details of the global server system format parameters.

If it is a data item not used for this purpose, you should correct to define it in the WORKING-STORAGE section.

## JMN3484I-S

**@1@ of BY VALUE in the CALL statement must be one of: a binary item with USAGE COMPUTATIONAL-5 with a length not exceeding 8 bytes; a one byte item; or a numeric literal of 18 digits or fewer.**

## Parameter Explanation

@1@ : Data name

## Example

```
[C3484.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3484.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 ITEM PIC X(2).
000006 PROCEDURE DIVISION.
000007     CALL "ABC" USING BY VALUE ITEM.
000008 END PROGRAM C3484.
```

C3484.cob 7: JMN3484I-S 'ITEM' of BY VALUE in the CALL statement must be one of: a binary item with USAGE COMPUTATIONAL-5 with a length not exceeding 8 bytes; a one byte item; or a numeric literal of 18 digits or fewer.

## JMN3485I-S

---

**The group item @1@ that only contains elementary items that are single precision floating-point items cannot be specified in the RETURNING phrase of the @2@ statement.**

## Parameter Explanation

@1@ : Group item name

@2@ : Statement name

## Example

```
[C3485.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3485.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 G-ITEM.
000006     02 ELEM1 COMP-2.
000007     02 ELEM2 COMP-2.
000008 PROCEDURE DIVISION.
000009     CALL "ABC" RETURNING G-ITEM.
000010 END PROGRAM C3485.
```

C3485.cob 9: JMN3485I-S The group item 'G-ITEM' that only contains elementary items that are single precision floating-point items cannot be specified in the RETURNING phrase of the CALL statement.

## JMN3504I-S

---

**Type-name @1@ cannot be an operand in a comparison.**

## Parameter Explanation

@1@ : Class-name, interface-name, delegate-name or ENUM-name

## Explanation

A class-name/interface-name/ENUM-name/delegate-name cannot be used in a conditional expression. They can only be used in type conditions.

## JMN3508I-S

---

**A 'RETURNING' phrase cannot be specified for a CALL statement which calls @1@. There is no RETURNING phrase in the PROCEDURE DIVISION of program @1@.**

## Parameter Explanation

@1@ : Program name

## Example

```
[C3508.cob]
000001 @OPTIONS CHECK(PRM)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3508.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 R PIC S9(09) COMP-5.
000007 PROCEDURE DIVISION.
000008     CALL "C3508S" RETURNING R.
000009     EXIT PROGRAM.
000010 IDENTIFICATION DIVISION.
000011 PROGRAM-ID. C3508S.
000012 DATA DIVISION.
000013 LINKAGE SECTION.
000014 PROCEDURE DIVISION.
000015     EXIT PROGRAM.
000016 END PROGRAM C3508S.
000017 END PROGRAM C3508.
```

C3508.cob 8: JMN3508I-S A 'RETURNING' phrase cannot be specified for a CALL statement which calls 'C3508S'. There is no RETURNING phrase in the PROCEDURE DIVISION of program 'C3508S'.

## JMN3524I-S

**The numeric literal of the sending item exceeds the range of @2@. Its numeric literal cannot be moved to @1@.**

## Parameter Explanation

@1@ : Identifier

@2@ : USAGE type of BINARY-xxx

## Example

```
[C3524I-S.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3524I-S.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 DATA-1 USAGE BINARY-LONG SIGNED.
000008 PROCEDURE DIVISION.
000009     MOVE 123456789012345 TO DATA-1.
000010     EXIT PROGRAM.
000011 END PROGRAM C3524I-S.
```

C3524I-S.cob 9: JMN3524I-S The numeric literal of the sending item exceeds the range of USAGE BINARY-LONG SIGNED. Its numeric literal cannot be moved to 'DATA-1'.

## Explanation

The range respectively of the value which can be stored in BINARY-CHAR/SHORT/LONG/DOUBLE data item has been decided. Refer to "USAGE Clause" in Chapter 5 of the "NetCOBOL Language Reference" for details.

## JMN3525I-S

---

**The type of argument-1 of @1@ must be an alphabetic, alphanumeric or national, and it must not be a group item.**

**Parameter Explanation**

@1@ : Function name(FUNCTION UNICODE-OF/ACP-OF)

**Example**

```
[C3525I-S.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3525I-S.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 DATA-1 PIC S9(9) COMP-5.
000008 01 DATA-2 PIC N(10).
000009 PROCEDURE DIVISION.
000010     MOVE FUNCTION UNICODE-OF ( DATA-1 ) TO DATA-2.
000011     EXIT PROGRAM.
000012 END PROGRAM C3525I-S.
```

C3525I-S.cob 10: JMN3525I-S The type of argument-1 of FUNCTION UNICODE-OF must be an alphabetic, alphanumeric or national, and it must not be a group item.

**JMN3526I-S**

---

**The argument-2 of @1@ must be of an alphanumeric category.**

**Parameter Explanation**

@1@ : Function name(FUNCTION UNICODE-OF/ACP-OF)

**Example**

```
[C3526I-S.cob]
000001 @OPTIONS RCS(UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3526I-S.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 DATA-1 PIC X(10).
000009 01 DATA-2 PIC X(10).
000010 01 DATA-3 PIC 9(5).
000011 PROCEDURE DIVISION.
000012     MOVE FUNCTION UNICODE-OF ( DATA-1 DATA-3 ) TO DATA-2.
000013     EXIT PROGRAM.
000014 END PROGRAM C3526I-S.
```

C3526I-S.cob 12: JMN3526I-S The argument-2 of FUNCTION UNICODE-OF must be of an alphanumeric category.

**JMN3533I-S**

---

**Argument-1 of FUNCTION DISPLAY-OF must be of the national class.**

**Example**

```
[C3533.cob]
000001 @OPTIONS RCS(UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3533.
000004 ENVIRONMENT DIVISION.
```

```

000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 A PIC X(8).
000008 01 B PIC X(8).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 MOVE FUNCTION DISPLAY-OF ( A ) TO B.
000012 END PROGRAM C3533.

```

C3533.cob 11: JMN3533I-S Argument-1 of FUNCTION DISPLAY-OF must be of the national class.

## JMN3534I-S

**In the FUNCTION DISPLAY-OF argument-2, if the character type is alphanumeric or alphabetic and the length is 1, the encoding format must be the same as the selected compile option for ENCODE.**

### Example

```

[C3534.cob]
000001 @OPTIONS RCS(UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3534.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 A PIC N(8).
000008 01 B PIC X(8).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 MOVE FUNCTION DISPLAY-OF ( A N"A" ) TO B.
000012 STOP RUN.
000013 END PROGRAM C3534.

```

C3534.cob 11: JMN3534I-S In the FUNCTION DISPLAY-OF argument-2, if the character type is alphanumeric or alphabetic and the length is 1, the encoding format must be the same as the selected compile option for ENCODE.

## JMN3535I-S

**Argument-1 of FUNCTION NATIONAL-OF must be of the alphabetic or alphanumeric class.**

### Example

```

[C3535.cob]
000001 @OPTIONS RCS(UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3535.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 DATA-1 PIC 9(10).
000009 01 DATA-2 PIC N(10).
000010 PROCEDURE DIVISION.
000011 MOVE FUNCTION NATIONAL-OF ( DATA-1 ) TO DATA-2.
000012 EXIT PROGRAM.
000013 END PROGRAM C3535.

```

C3535.cob 11: JMN3535I-S Argument-1 of FUNCTION NATIONAL-OF must be of the alphabetic or alphanumeric class.

## JMN3536I-S

**If the FUNCTION NATIONAL-OF argument-2 is a national language item type and the length is 1 character, the encoding format must be same as the selected compile option for ENCODE.**

## Example

```
[C3536.cob]
000001 @OPTIONS RCS(UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3536.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 A PIC X(8).
000008 01 B PIC N(8).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 MOVE FUNCTION NATIONAL-OF ( A N"###" ) TO B.
000012 END PROGRAM C3536.
```

C3536.cob 11: JMN3536I-S If the FUNCTION NATIONAL-OF argument-2 is a national language item type and the length is 1 character, the encoding format must be same as the selected compile option for ENCODE.

## JMN3551I-S

**Non-USAGE DISPLAY item, numeric edited item, alphanumeric edited item, national edited item, external boolean item, external floating-point item, numeric item that symbol 'P' exists in picture clause, and group item including either the above-mentioned cannot be specified in @2@ of @1@ statement with CSV-FORMAT or TSV-FORMAT. @3@ is ignored.**

### Parameter Explanation

- @1@ : STRING/UNSTRING
- @2@ : sending item/INTO phrase item
- @3@ : data name (sending item or INTO phrase item)

## Example

```
[C3551.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3551.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 DATA1 PIC X(10).
000006 01 DATA2.
000007 02 DATA21 PIC X(5).
000008 02 DATA22 PIC S9(9) COMP-5.
000009 01 DATA3 PIC N(15).
000010 01 RCV PIC X(50).
000011 PROCEDURE DIVISION.
000012 STRING DATA1 DATA2 DATA3 INTO RCV
000013 BY TSV-FORMAT
000014 END-STRING.
000015 .
000016 END PROGRAM C3551.
```

C3551.cob 12: JMN3551I-S Non-USAGE DISPLAY item, numeric edited item, alphanumeric edited item, national edited item, external boolean item, external floating-point item, numeric item that symbol 'P' exists in picture clause, and group item including either the above-mentioned cannot be specified in sending item of STRING statement with CSV-FORMAT or TSV-FORMAT. 'DATA2' is ignored.

## JMN3552I-S

**@4@ that is item with a @3@ clause or the group item including it cannot be specified in @2@ of @1@ statement with CSV-FORMAT or TSV-FORMAT. @4@ is ignored.**

## Parameter Explanation

@1@ : STRING/UNSTRING

@2@ : sending item/INTO phrase

@3@ : clause name

@4@ : data name (sending item or INTO phrase)

## Example

```
[C3552.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3552.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 DATA1 PIC X(10).
000006 01 DATA2.
000007 02 DATA21 PIC X(5).
000008 02 DATA21R REDEFINES DATA21 PIC 9(5).
000009 02 DATA22 PIC N(5).
000010 01 DATA3 PIC N(15).
000011 01 RCV PIC X(50).
000012 PROCEDURE DIVISION.
000013     STRING DATA1 DATA2 DATA3 INTO RCV
000014         BY TSV-FORMAT
000015     END-STRING.
000016     .
000017 END PROGRAM C3552.
```

C3552.cob 13: JMN3552I-S 'DATA2' that is item with a REDEFINES clause or the group item including it cannot be specified in sending item of STRING statement with CSV-FORMAT or TSV-FORMAT. 'DATA2' is ignored.

## JMN3553I-S

**@3@ that is item of @2@ of @1@ statement with CSV-FORMAT or TSV-FORMAT should be an alphanumeric item without JUSTIFIED and ANY LENGTH clause.**

## Parameter Explanation

@1@ : STRING/UNSTRING

@2@ : sending item/INTO phrase

@3@ : data name (sending item or INTO phrase)

## Example

```
[C3553.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3553.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 DATA1 PIC S9(4).
000006 01 DATA2 PIC X(15).
000007 01 DATA3 PIC X(20).
000008 01 RCV PIC N(50).
000009 PROCEDURE DIVISION.
000010     STRING DATA1 DATA2 DATA3 INTO RCV
000011         BY TSV-FORMAT
000012     END-STRING.
000013     .
000014 END PROGRAM C3553.
```

C3553.cob 10: JMN3553I-S 'RCV' that is item of INTO phrase of STRING statement with CSV-FORMAT or TSV-FORMAT should be an alphanumeric item without JUSTIFIED and ANY LENGTH clause.

## JMN3554I-S

**@3@ that is item of POINTER phrase of @1@ statement with CSV-FORMAT or TSV-FORMAT should be an integer item that is without the symbols 'P' in PICTURE clause, and the value in which 1 is added to length of @2@ should be a range of the value of its item.**

### Parameter Explanation

@1@ : STRING/UNSTRING

@2@ : data name (sending item or INTO phrase)

@3@ : data name (POINTER phrase)

### Example

```
[C3554.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3554.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 DATA1 PIC S9(4).
000006 01 DATA2 PIC X(15).
000007 01 DATA3 PIC X(20).
000008 01 RCV PIC X(500).
000009 01 DATAP PIC S9(2).
000010 PROCEDURE DIVISION.
000011 STRING DATA1 DATA2 DATA3 INTO RCV
000012 BY TSV-FORMAT
000013 WITH POINTER DATAP
000014 END-STRING.
000015 .
000016 END PROGRAM C3554.
```

C3554.cob 13: JMN3554I-S 'DATAP' that is item of POINTER phrase of STRING statement with CSV-FORMAT or TSV-FORMAT should be an integer item that is without the symbols 'P' in PICTURE clause, and the value in which 1 is added to length of 'RCV' should be a range of the value of its item.

## JMN3555I-S

**@2@ cannot be specified in @1@ statement with CSV-FORMAT or TSV-FORMAT.**

### Parameter Explanation

@1@ : STRING/UNSTRING

@2@ : intrinsic function, inline method invocation, etc

### Example

```
[C3555.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3555.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 DATA1 PIC S9(4).
000006 01 DATA2 PIC X(15).
000007 01 DATA3 PIC X(20).
000008 01 RCV PIC X(500).
000009 01 DATAP PIC S9(2).
000010 PROCEDURE DIVISION.
000011 STRING DATA1 FUNCTION UPPER-CASE(DATA2) INTO RCV
000012 BY TSV-FORMAT
000013 END-STRING.
```



```
000014 .
000015 END PROGRAM C3555.
```

C3555.cob 11: JMN3555I-S FUNCTION UPPER-CASE cannot be specified in STRING statement with CSV-FORMAT or TSV-FORMAT.

## JMN3557I-S

**A numeric item exceeding 18 digits exists in the USING or RETURNING phrase of the @1@'@2@'. The numeric item cannot be used in 18-digit mode.**

### Parameter Explanation

@1@ : The inline invocation or object property.

@2@ : The method name or property name.

### Example

```
[C3557.cob]
000001 @OPTIONS ARITHMETIC(31)
000002 CLASS-ID. C3557.
000003 OBJECT.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 PROPDAT PIC S9(31) COMP-5 PROPERTY.
000007 PROCEDURE DIVISION.
000008 END OBJECT.
000009 END CLASS C3557.
```

```
[P3557.cob]
000001 @OPTIONS ARITHMETIC(18)
000002 PROGRAM-ID. P3557.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006 CLASS C3557.
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 WDATA PIC S9(9) COMP-5.
000010 01 OBJC3557 OBJECT REFERENCE C3557.
000011 PROCEDURE DIVISION.
000012 MOVE WDATA TO PROPDAT OF OBJC3557.
```

P3557.cob 12: JMN3557I-S A numeric item exceeding 18 digits exists in the USING or RETURNING phrase of the object property 'PROPDAT'. The numeric item cannot be used in 18-digit mode.

## JMN3558I-I

**The number of digits in the arithmetic expression intermediate result exceeds the maximum allowed in 18-digit mode.**

### Example

```
[C3558.cob]
000001 @OPTIONS ARITHMETIC(31,INF)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3558.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 ED01 PIC S9(16).
000007 01 ED02 PIC SV9(16).
000008 PROCEDURE DIVISION.
000009 ADD ED01 TO ED02.
```

C3558.cob 9: JMN3558I-I The number of digits in the arithmetic expression intermediate result exceeds the maximum allowed in 18-digit mode.

### Explanation

This message is output only when compile option ARITHMETIC(31,INF) is specified.

The maximum number of digits allowed for an intermediate result depends on the operation mode. 30 digits are allowed for 18-digit mode, and 38 digits are allowed for 31-digit mode.

This message is output to the arithmetic expression when the number of digits in the intermediate result exceeds the maximum number of digits allowed in 18-digit mode.

### JMN3559I-I

**The floating point attribute is applied to the intermediate result of the arithmetic expression in 31-digit mode.**

### Example

```
[C3559.cob]
000001 @OPTIONS ARITHMETIC(31,INF)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3559.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 ED01 PIC S9(16).
000007 01 FLOAT1 COMP-2.
000008 PROCEDURE DIVISION.
000009     COMPUTE FLOAT1 = ED01 / 2.
```

C3559.cob 9: JMN3559I-I The floating point attribute is applied to the intermediate result of the arithmetic expression in 31-digit mode.

### Explanation

This message is output only when compile option ARITHMETIC(31,INF) is specified.

The floating point attribute is applied to the intermediate result only in 31-digit mode.

### JMN3562I-S

**The encoding of the target to be compared and the @1@ key item in the SEARCH ALL statement must be the same.**

### Parameter Explanation

@1@ : Data name.

### Example

```
[C3562.cob]
000001 @OPTIONS ENCODE(UTF8,UTF16,LE)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3562.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006     SPECIAL-NAMES.
000007         ALPHABET U16L FOR NATIONAL UTF16LE
000008         ALPHABET U32L FOR NATIONAL UTF32LE
000009     .
000010 DATA DIVISION.
000011 WORKING-STORAGE SECTION.
000012 01 TBL.
000013     02 X OCCURS 5 TIMES ASCENDING KEY IS A
000014         INDEXED BY IX1.
```

```

000015      03 A          PIC N(8) ENCODING U16L.
000016 01   B          PIC N(8) ENCODING U32L.
000017 PROCEDURE  DIVISION.
000018      SEARCH ALL X
000019      WHEN A(IX1) = B
000020          CONTINUE
000021      END-SEARCH.
000022 END PROGRAM  C3562.

```

C3562.cob 19: JMN3562I-S The encoding of the target to be compared and the 'A' key item in the SEARCH ALL statement must be the same.

## JMN3563I-S

**Different encoding cannot be given for the comparison of multiple data items.**

Example

```

[C3563.cob]
000001 @OPTIONS ENCODE(UTF8,UTF16,LE)
000002 IDENTIFICATION  DIVISION.
000003 PROGRAM-ID.    C3563.
000004 ENVIRONMENT  DIVISION.
000005 CONFIGURATION SECTION.
000006     SPECIAL-NAMES.
000007     ALPHABET U16L FOR NATIONAL UTF16LE
000008     ALPHABET U32L FOR NATIONAL UTF32LE
000009     .
000010 DATA  DIVISION.
000011 WORKING-STORAGE SECTION.
000012 01 A   PIC N(8) ENCODING U16L.
000013 01 B   PIC N(8) ENCODING U32L.
000014 PROCEDURE  DIVISION.
000015     IF A = B THEN
000016         DISPLAY "OK"
000017     END-IF.
000018 END PROGRAM  C3563.

```

C3563.cob 15: JMN3563I-S Different encoding cannot be given for the comparison of multiple data items.

## JMN3564I-S

**Different encoding cannot be given for the move of multiple data items.**

Example

```

[C3564.cob]
000001 @OPTIONS ENCODE(UTF8,UTF16,LE)
000002 IDENTIFICATION  DIVISION.
000003 PROGRAM-ID.    C3564.
000004 ENVIRONMENT  DIVISION.
000005 CONFIGURATION SECTION.
000006     SPECIAL-NAMES.
000007     ALPHABET U16L FOR NATIONAL UTF16LE
000008     ALPHABET U32L FOR NATIONAL UTF32LE
000009     .
000010 DATA  DIVISION.
000011 WORKING-STORAGE SECTION.
000012 01 A   PIC N(8) ENCODING U16L.
000013 01 B   PIC N(8) ENCODING U32L.
000014 PROCEDURE  DIVISION.
000015     MOVE A TO B.
000016 END PROGRAM  C3564.

```

C3564.cob 15: JMN3564I-S Different encoding cannot be given for the move of multiple data items.

## JMN3565I-S

**When compilation option RCS(UTF16) or ENCODE is specified, @1@ cannot be specified in a WRITE statement for a print file. @1@ is different from the encoding of the print file.**

### Parameter Explanation

@1@ : Identifier

### Example

```
[C3565I-S.cob]
000001 @OPTIONS ENCODE(UTF8,UTF32)
000002 PROGRAM-ID. C3565I-S.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET UTF16L FOR NATIONAL UTF16LE.
000007 INPUT-OUTPUT SECTION.
000008 FILE-CONTROL.
000009     SELECT FILE-1 ASSIGN TO S-SYS001.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD FILE-1
000013     LINAGE IS PAGE-AREA LINE
000014     WITH FOOTING AT FOOT-AREA
000015     LINE AT TOP TOP-AREA
000016     LINE AT BOTTOM BOT-AREA.
000017 01 REC-1 PIC X(100).
000018 WORKING-STORAGE SECTION.
000019 01 GROUP-ITEM-1.
000020 02 PAGE-AREA PIC 9(4) COMP-3 VALUE 50.
000021 02 FOOT-AREA PIC 9(4) VALUE 10.
000022 02 TOP-AREA PIC 9(4) VALUE 5.
000023 02 BOT-AREA PIC 9(4) VALUE 5.
000024 01 GR.
000025 02 R-1 PIC N(5) ENCODING UTF16L.
000026 02 R-2 PIC X(30).
000027 PROCEDURE DIVISION.
000028     WRITE REC-1 FROM GR.
000029 END PROGRAM C3565I-S.
```

P3565I-S.cob 28: JMN3565I-S When compilation option RCS(UTF16) or ENCODE is specified, 'GR' cannot be specified in a WRITE statement for a print file. 'GR' is different from the encoding of the print file.

## JMN3566I-S

**The length of the national hexadecimal nonnumeric literal for encoding UTF32 must be a multiple of 8.**

### Example

```
[C3566.cob]
000001 @OPTIONS ENCODE(UTF8,UTF32,LE)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3566.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006     SPECIAL-NAMES.
000007     ALPHABET U32L FOR NATIONAL UTF32LE
000008     .
000009 DATA DIVISION.
000010 WORKING-STORAGE SECTION.
```

```

000011 01 A PIC N ENCODING U32L.
000012 PROCEDURE DIVISION.
000013 MOVE NX"0030" TO A.
000014 END PROGRAM C3566.

```

C3566.cob 13: JMN3566I-S The length of the national hexadecimal nonnumeric literal for encoding UTF32 must be a multiple of 8.

## JMN3567I-W

**In the '@1@' group item, which is specified in the argument of @2@, National items having different encoding formats are included. The '@1@' national item is taken as the Encoding's alphanumeric data item.**

### Parameter Explanation

@1@: Identifier

@2@: FUNCTION NATIONAL, FUNCTION NATIONAL-OF

### Example

```

[C3567I-W.cob]
000001 @OPTIONS ENCODE(UTF8,UTF32)
000002 PROGRAM-ID. C3567I-W.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006 ALPHABET UTF32B NATIONAL UTF32BE.
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 GRP-DATA.
000010 02 X-DATA-1 PIC X(5) VALUE "UTF-8".
000011 02 N-DATA-2 PIC N(6) ENCODING UTF32B VALUE NC"UTF-32".
000012 01 RCV PIC N(30).
000013 PROCEDURE DIVISION.
000014 MOVE FUNCTION NATIONAL(GRP-DATA) TO RCV
000015 DISPLAY RCV
000016 END PROGRAM C3567I-W.

```

C3567I-W.cob 14: JMN3567I-W In the 'GRP-DATA' group item, which is specified in the argument of FUNCTION NATIONAL, National items having different encoding formats are included. The 'GRP-DATA' national item is taken as the Encoding's alphanumeric data item.

## JMN3568I-S

**In the CONVERSION specification MOVE statement, '@1@' cannot be specified in the items that are specified by the @2@ clause.**

### Parameter Explanation

@1@: Data name

@2@: JUSTIFIED or ANY LENGTH

### Example

```

[C3568.cob]
000001 @OPTIONS ENCODE(UTF8,UTF32)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3568.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 W-X-JUST PIC X(20) JUSTIFIED VALUE "HELLO".
000007 01 W-N-UTF32 PIC N(10).
000008 PROCEDURE DIVISION.

```

```
000009 MOVE CONVERSION W-X-JUST TO W-N-UTF32.
000010 END PROGRAM C3568.
```

C3568.cob 9: JMN3568I-S In the CONVERSION specification MOVE statement, 'W-X-JUST' can not be specified in the items that are specified by the JUSTIFIED clause.

## JMN3569I-S

**A '@1@' having the same encoding as the receiving side cannot be moved to '@2@'.**

### Parameter Explanation

@1@: Data name

@2@: Data name

### Example

```
[C3569.cob]
000001 @OPTIONS ENCODE(SJIS,SJIS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3569.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 N08 PIC N(8).
000007 01 X08 PIC X(8).
000008 PROCEDURE DIVISION.
000009 MOVE CONVERSION X08 TO N08.
000010 END PROGRAM C3569.
```

C3569.cob 9: JMN3569I-S A 'X08' having the same encoding as the receiving side cannot be moved to 'N08'.

## JMN3570I-S

**Move cannot be performed because the area of receiving side item '@2@' and the area of sending side item '@1@' are overlapping.**

### Parameter Explanation

@1@: sending item

@2@: receiving item

### Example

```
[C3570.cob]
000001 @OPTIONS ENCODE(UTF8,UTF32)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3570.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 GRP.
000007 02 A-GRP.
000008 03 A-AREA PIC N(4).
000009 03 FILLER PIC X(1).
000010 02 B-GRP REDEFINES A-GRP.
000011 03 FILLER PIC X(1).
000012 03 B-AREA PIC X(16).
000013 PROCEDURE DIVISION.
000014 MOVE CONVERSION A-AREA TO B-AREA.
000015 END PROGRAM C3570.
```

C3570.cob 14: JMN3570I-S Move cannot be performed because the area of receiving side item 'B-AREA' and the area of sending side item 'A-AREA' are overlapping.

## 2.2.5 JMN5000 - JMN5999

---

5000	5001	5002	5005	5007	5008	5009	5100	5101	5102
5103	5104	5105	5108	5109	5110	5111	5112	5113	5114
5115	5116	5117	5118	5119	5120	5121	5122	5123	5125
5126	5127	5128	5129	5130	5131	5132	5133	5134	5135
5136	5537	5138	5140	5141	5142	5143	5144	5145	5146
5147	5148	5149	5150	5151	5152	5153	5154	5155	5156
5157	5158	5159	5160	5260	5400	5410	5500	5501	5504
5505	5507	5508	5509	5510	5511	5512	5513	5514	5515
5516	5517	5518	5519	5520	5521	5522	5525	5526	5527
5528	5530	5531	5532	5533	5534	5535	5536	5537	5538
5539	5540	5541	5542	5543	5544	5545	5546	5547	5548
5549	5550	5551	5552	5553	5555	5556	5557	5559	5560
5561	5562	5563	5564	5565	5566	5567	5568	5569	5570
5571	5572	5573	5574	5575	5576	5578	5579	5580	5581
5582	5583	5584	5585	5590	5591	5592	5593	5595	5596
5601	5602	5783	5784	5785	5786	5787	5788	5789	5790

### JMN5000I-S

**Method '@1@' was defined with the OVERRIDE clause, but no method of that name was found in the parent class. The OVERRIDE phrase is ignored.**

#### Parameter Explanation

@1@ : User-defined word specified in METHOD-ID paragraph.

#### Example

```
[C5000CP.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5000CP.
000003 ENVIRONMENT      DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA              DIVISION.
000007 WORKING-STORAGE SECTION.
000008 PROCEDURE         DIVISION.
000009 IDENTIFICATION DIVISION.
000010 METHOD-ID.        MO1.
000011 DATA              DIVISION.
000012 PROCEDURE         DIVISION.
000013     DISPLAY "METHOD OF PARENT CLASS".
000014 END METHOD         MO1.
000015 END OBJECT.
000016 END CLASS C5000CP.
[C5000.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5000 INHERITS C5000CP.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     CLASS C5000CP.
000007 IDENTIFICATION DIVISION.
000008 OBJECT.
```

```

000009 DATA          DIVISION.
000010 WORKING-STORAGE SECTION.
000011 PROCEDURE       DIVISION.
000012 IDENTIFICATION DIVISION.
000013 METHOD-ID.      MO2 OVERRIDE.
000014 DATA          DIVISION.
000015 PROCEDURE       DIVISION.
000016     DISPLAY "METHOD OF CHILD CLASS" .
000017 END METHOD       MO2.
000018 END OBJECT.
000019 END CLASS C5000.

```

C5000.cob 13: JMN5000I-S Method 'MO2' was defined with the OVERRIDE clause, but no method of that name was found in the parent class. The OVERRIDE phrase is ignored.

### Explanation

A method was defined with the OVERRIDE clause, but no method of that name was found in the parent class.

Note that when OVERRIDE is specified for a method, the comparison of the method name with the parent class methods is case-sensitive, even if the program is compiled with the compiler option ALPHAL(AUTO). Otherwise, comparison of method names is not case-sensitive.

## JMN5001I-S

**Method '@1@' is defined multiple times. The method-name must be unique in @3@ '@2@'.**

### Parameter Explanation

@1@ : a method-name.

@2@ : a class-name.

@3@ : class

### Example

```

[C5001.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5001.
000003 ENVIRONMENT    DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA          DIVISION.
000007 WORKING-STORAGE SECTION.
000008 PROCEDURE       DIVISION.
000009 IDENTIFICATION DIVISION.
000010 METHOD-ID.      MO1.
000011 DATA          DIVISION.
000012 PROCEDURE       DIVISION.
000013     DISPLAY "METHOD MO1-1" .
000014 END METHOD       MO1.
000015 IDENTIFICATION DIVISION.
000016 METHOD-ID.      MO1.
000017 DATA          DIVISION.
000018 PROCEDURE       DIVISION.
000019     DISPLAY "METHOD MO1-2" .
000020 END METHOD       MO1.
000021 END OBJECT.
000022 END CLASS C5001.

```

C5001.cob 16: JMN5001I-S Method 'MO1' is defined multiple times. The method-name must be unique in class 'C5001'.

### Explanation

Two or more methods with the same name in the class being compiled were detected.



## JMN5002I-S

**Method '@1@' that is defined or overridden in class '@2@' cannot override. The method '@1@' definition is ignored.**

### Parameter Explanation

@1@ : User-defined word specified in METHOD-ID paragraph.

@2@ : User-defined word specified in CLASS-ID paragraph.

### Example

```
[C5002.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5002.
000003 ENVIRONMENT      DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA              DIVISION.
000007 WORKING-STORAGE SECTION.
000008 PROCEDURE         DIVISION.
000009 IDENTIFICATION DIVISION.
000010 METHOD-ID.        MO1.
000011 DATA              DIVISION.
000012 PROCEDURE         DIVISION.
000013     DISPLAY "ORIGINAL MO1".
000014 END METHOD         MO1.
000015 IDENTIFICATION DIVISION.
000016 METHOD-ID.        MO1 OVERRIDE.
000017 DATA              DIVISION.
000018 PROCEDURE         DIVISION.
000019     DISPLAY "MO1 OVERRIDED".
000020 END METHOD         MO1.
000021 END OBJECT.
000022 END CLASS C5002.
```

C5002.cob 16: JMN5002I-S Method 'MO1' that is defined or overridden in class 'C5002' cannot override. The method 'MO1' definition is ignored.

### Explanation

If the OVERRIDE clause is specified, the inherited method with the same external name as the method declared in this method definition must be defined in the inherited class.

## JMN5005I-S

**The method prototype definition of '@1@' is missing. Method '@1@' is ignored.**

### Parameter Explanation

@1@ : User-defined word specified in the METHOD-ID paragraph.

### Example

```
[C5005C.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5005C.
000003 ENVIRONMENT      DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA              DIVISION.
000007 WORKING-STORAGE SECTION.
000008 PROCEDURE         DIVISION.
000009 IDENTIFICATION DIVISION.
```

```

000010 METHOD-ID.      MO2 PROTOTYPE.
000011 END METHOD      MO2.
000012 END OBJECT.
000013 END CLASS C5005C.
[C5005.cob]
000001 IDENTIFICATION DIVISION.
000002 METHOD-ID.      C5005 OF C5005C.
000003 ENVIRONMENT    DIVISION.
000004 CONFIGURATION  SECTION.
000005 REPOSITORY.
000006 CLASS C5005C.
000007 DATA           DIVISION.
000008 PROCEDURE      DIVISION.
000009 DISPLAY "METHOD OF CHILD CLASS" .
000010 END METHOD      C5005.

```

C5005.cob 2: JMN5005I-S The method prototype definition of 'C5005' is missing. Method 'C5005' is ignored.

### Explanation

There is no method prototype definition (method definition that has the PROTOTYPE phrase in its METHOD-ID paragraph) corresponding to a separate method definition. Verify that the corresponding method prototype definition is included in the class definition specified for the OF phrase in the METHOD-ID paragraph of a separate method definition.

## JMN5007I-S

**Property-name '@1@' cannot be a data-name with a PROPERTY clause.**

### Parameter Explanation

@1@ : User-defined word specified in the METHOD-ID paragraph as a property name.

### Example

```

[C5007.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5007.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 DATA           DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 PROP1       PIC X(8) PROPERTY.
000008 PROCEDURE      DIVISION.
000009 IDENTIFICATION DIVISION.
000010 METHOD-ID.      GET PROPERTY PROP1.
000011 DATA           DIVISION.
000012 LINKAGE        SECTION.
000013 01 LK1         PIC X(8).
000014 PROCEDURE      DIVISION RETURNING LK1.
000015 MOVE PROP1(1:) TO LK1.
000016 EXIT METHOD.
000017 END METHOD.
000018 END OBJECT.
000019 END CLASS C5007.

```

C5007.cob 10: JMN5007I-S Property-name 'PROP1' cannot be a data-name with a PROPERTY clause.

### Explanation

The property-name specified for the METHOD-ID paragraph should not be the same name as the data-name of a data description entry that specifies a PROPERTY clause.

## JMN5008I-S

---

**Property-name '@1@' specified in the property-specifier is undefined. The property-specifier is ignored.**

#### Parameter Explanation

@1@ : User-defined word specified in the property specifier.

#### Example

```
[C5008.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5008.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     PROPERTY PR2 AS "NO-SHEET" *> Undefined
000007     .
000008 OBJECT.
000009 END OBJECT.
000010 END CLASS C5008.
```

C5008.cob 6: JMN5008I-S Property-name 'NO-SHEET' specified in the property-specifier is undefined. The property-specifier is ignored.

#### Explanation

The property-specifier declares a name that can be specified by an object property within the scope of the ENVIRONMENT DIVISION.

### JMN5009I-S

---

**Property-name '@1@' specified in the property-specifier is defined multiple times. The property-specifier is ignored.**

#### Parameter Explanation

@1@ : User-defined word specified in the property specifier.

#### Example

```
[C5009.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5009.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     PROPERTY PR1 AS "PROCL"
000007     PROPERTY AA AS "BB"
000008     PROPERTY BB.
000009 OBJECT.
000010 DATA              DIVISION.
000011 WORKING-STORAGE  SECTION.
000012 01 PR1           PIC X(8) PROPERTY.
000013 END OBJECT.
000014 END CLASS C5009.
```

C5009.cob 6: JMN5009I-S Property-name 'PR1' specified in the property-specifier is defined multiple times. The property-specifier is ignored.

C5009.cob 7: JMN5009I-S Property-name 'BB' specified in the property-specifier is defined multiple times. The property-specifier is ignored.

#### Explanation

Multiple definitions were detected for the property-name specified in the repository paragraph of the environment division. This could be caused by one of the following:

- An alias of the property-name and a data-name of a data description entry that specifies the PROPERTY clause are the same. (The alias is shown by the literal specified for the AS phrase of the property-specifier.)
- A property-name in the property-specifier and an alias of the property-name in another property-specifier are the same.

## JMN5100I-S

**The class-name specified in the @1@ clause is invalid. The class-name is ignored.**

### Parameter Explanation

@1@ : USAGE OBJECT REFERENCE

### Example

```
[C5100.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C5100.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 OBJA USAGE OBJECT REFERENCE XX.
000006 PROCEDURE DIVISION.
000007 END PROGRAM C5100.
```

C5100.cob 5: JMN5100I-S The class-name specified in the USAGE OBJECT REFERENCE clause is invalid. The class-name is ignored.

### Explanation

This diagnostic message is output when corresponding to the following either of names specified for the USAGE OBJECT REFERENCE clause.

- Undefined name
- Name of multiple definition
- Names other than class name

## JMN5101I-S

**The @1@ clause can only be specified in a program definition. The @1@ clause is ignored.**

### Parameter Explanation

@1@ : APPLY SAVED-AREA, APPLY MULTICONVERSATION-MODE, APPLY RECORD-OVERFLOW, APPLY CORE-INDEX or APPLY REORG-CRITERIA

### Example

```
[C5101.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C5101 INHERITS FJBASE.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006 ON-YOMI IS JIS1.
000007 REPOSITORY.
000008 CLASS FJBASE.
000009 IDENTIFICATION DIVISION.
000010 OBJECT.
000011 ENVIRONMENT DIVISION.
000012 PROCEDURE DIVISION.
000013 IDENTIFICATION DIVISION.
000014 METHOD-ID. M5101.
000015 ENVIRONMENT DIVISION.
000016 INPUT-OUTPUT SECTION.
```

```

000017 FILE-CONTROL.
000018     SELECT CSFILE4 ASSIGN TO SYS001
000019     FILE STATUS     IS WFS1.
000020 I-O-CONTROL.
000021     APPLY MULTICONVERSATION-MODE TO CSFILE4
000022     APPLY SAVED-AREA TO WSVAR ON CSFILE4.
000023 DATA          DIVISION.
000024 FILE           SECTION.
000025 FD CSFILE4.
000026 01 CSF4REC.
000027 02                PIC X(80).
000028 WORKING-STORAGE SECTION.
000029 01 WFS1          PIC X(2).
000030 01 WSVAR        PIC X(80).
000031 END METHOD      M5101.
000032 END OBJECT.
000033 END CLASS     C5101.

```

C5101.cob 21: JMN5101I-S The APPLY MULTICONVERSATION-MODE clause can only be specified in a program definition. The APPLY MULTICONVERSATION-MODE clause is ignored.

C5101.cob 22: JMN5101I-S The APPLY SAVED-AREA clause can only be specified in a program definition. The APPLY SAVED-AREA clause is ignored.

## JMN5102I-S

**The @1@ clause cannot be specified with a @2@ clause. The @1@ clause is ignored.**

### Parameter Explanation

@1@ : Clause which can specified in a data description entry.

@2@ : TYPE, TYPEDEF or USAGE

### Example

```

[C5102.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C5102.
000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 OBJA USAGE OBJECT REFERENCE BLANK WHEN ZERO.
000006 01 OBJB USAGE OBJECT REFERENCE SYNC.
000007 01 OBJC USAGE OBJECT REFERENCE VALUE "AA" .
000008 01 OBJD PIC X(10) OBJECT REFERENCE.
000009 01 RR PIC X(08).
000010 01 OBJE REDEFINES RR USAGE OBJECT REFERENCE.
000011 PROCEDURE DIVISION.
000012 END PROGRAM C5102.

```

C5102.cob 5: JMN5102I-S The USAGE OBJECT REFERENCE clause cannot be specified with a BLANK WHEN ZERO clause. The USAGE OBJECT REFERENCE clause is ignored.

C5102.cob 6: JMN5102I-S The USAGE OBJECT REFERENCE clause cannot be specified with a SYNCHRONIZED clause. The USAGE OBJECT REFERENCE clause is ignored.

C5102.cob 7: JMN5102I-S The USAGE OBJECT REFERENCE clause cannot be specified with a VALUE clause. The USAGE OBJECT REFERENCE clause is ignored.

C5102.cob 10: JMN5102I-S The USAGE OBJECT REFERENCE clause cannot be specified with a REDEFINES clause. The USAGE OBJECT REFERENCE clause is ignored.

## JMN5103I-S (**Win32**)

---

**The @1@ clause can only be specified in WORKING-STORAGE SECTION or LINKAGE SECTION. The @1@ clause is ignored.**

**Parameter Explanation**

@1@ : USAGE OBJECT REFERENCE

**Example**

```
[C5103.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C5103.
000003 DATA           DIVISION.
000004 BASED-STORAGE  SECTION.
000005 01 WOBR        OBJECT REFERENCE.
000006 PROCEDURE      DIVISION.
000007 END PROGRAM     C5103.
```

C5103.cob 5: JMN5103I-S The USAGE OBJECT REFERENCE clause can only be specified in WORKING-STORAGE SECTION or LINKAGE SECTION. The USAGE OBJECT REFERENCE clause is ignored.

**Explanation**

The USAGE OBJECT REFERENCE clause cannot be specified in the BASED-STORAGE SECTION, the FILE SECTION, the CONSTANT SECTION, the SCREEN SECTION, or the REPORT SECTION.

**JMN5103I-S ([Winx64])**

---

**The @1@ clause can only be specified in WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION or LINKAGE SECTION. The @1@ clause is ignored.**

**Parameter Explanation**

@1@ : USAGE OBJECT REFERENCE

**Example**

```
[C5103.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     C5103.
000003 DATA           DIVISION.
000004 BASED-STORAGE  SECTION.
000005 01 WOBR        OBJECT REFERENCE.
000006 PROCEDURE      DIVISION.
000007 END PROGRAM     C5103.
```

C5103.cob 5: JMN5103I-S The USAGE OBJECT REFERENCE clause can only be specified in WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION or LINKAGE SECTION. The USAGE OBJECT REFERENCE clause is ignored.

**Explanation**

The USAGE OBJECT REFERENCE clause cannot be specified in the BASED-STORAGE SECTION, the FILE SECTION, the CONSTANT SECTION, the SCREEN SECTION, or the REPORT SECTION.

**JMN5104I-S**

---

**The @1@ clause cannot be specified for a group item. The @1@ clause is ignored.**

**Parameter Explanation**

@1@ : USAGE OBJECT REFERENCE, PROPERTY

**Example**

```
[C5104.cob]
000001 IDENTIFICATION DIVISION.
```

```

000002 PROGRAM-ID.      C5104.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 OBJA          USAGE OBJECT REFERENCE.
000006 02 OBJB          USAGE OBJECT REFERENCE.
000007 PROCEDURE        DIVISION.
000008 END PROGRAM      C5104.

```

C5104.cob 5: JMN5104I-S The USAGE OBJECT REFERENCE clause cannot be specified for a group item. The USAGE OBJECT REFERENCE clause is ignored.

#### Explanation

The USAGE OBJECT REFERENCE clause and the PROPERTY clause can be specified only in an elementary item.

### JMN5105I-W

**A condition-name cannot be specified for a data item in the LINKAGE SECTION of the method prototype definition. The condition-name is ignored.**

#### Example

```

[C5105.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.        C5105 INHERITS FJBASE.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     CLASS FJBASE.
000007 IDENTIFICATION DIVISION.
000008 OBJECT.
000009 PROCEDURE        DIVISION.
000010 IDENTIFICATION DIVISION.
000011 METHOD-ID.        M5105 PROTOTYPE.
000012 DATA            DIVISION.
000013 LINKAGE          SECTION.
000014 01 LK1           PIC X(2).
000015 88 ZOK           VALUE "OK".
000016 88 ZNG           VALUE "NG".
000017 PROCEDURE        DIVISION
000018     USING LK1.
000019 END METHOD          M5105.
000020 END OBJECT.
000021 END CLASS        C5105.

```

C5105.cob 15: JMN5105I-W A condition-name cannot be specified for a data item in the LINKAGE SECTION of the method prototype definition. The condition-name is ignored.

#### Explanation

A method prototype specifies the method-name and parameter types, and a returning item (if specified) for a method. The method prototype does not contain the condition-name that is set to the method parameters and a returning item.

### JMN5108I-S

**A @1@ clause cannot be specified for an item with an OCCURS clause or its subordinate item. The @1@ clause is ignored.**

#### Parameter Explanation

@1@ : PROPERTY

## Example

```
[C5108.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5108.
000003 ENVIRONMENT      DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA              DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 AA.
000009 02 BB.
000010 03 PROP1  PROPERTY OCCURS 3 TIMES PIC X(8).
000011 01 CC .
000012 02 DD      OCCURS 2 TIMES.
000013 03 PROP2  PIC X(8) PROPERTY.
000014 PROCEDURE  DIVISION.
000015 IDENTIFICATION DIVISION.
000016 METHOD-ID.   MO1.
000017 DATA      DIVISION.
000018 WORKING-STORAGE SECTION.
000019 01 OBR1    USAGE OBJECT REFERENCE.
000020 PROCEDURE  DIVISION.
000021 END METHOD   MO1.
000022 END OBJECT.
000023 END CLASS C5108.
```

C5108.cob 10: JMN5108I-S A PROPERTY clause cannot be specified for an item with an OCCURS clause or its subordinate item. The PROPERTY clause is ignored.

C5108.cob 13: JMN5108I-S A PROPERTY clause cannot be specified for an item with an OCCURS clause or its subordinate item. The PROPERTY clause is ignored.

## JMN5109I-S

**An item redefined by a REDEFINES clause cannot have a @1@ clause, or cannot be subordinate to a data item with a @1@ clause. The REDEFINES clause is ignored.**

### Parameter Explanation

@1@ : USAGE OBJECT REFERENCE

## Example

```
[C5109.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C5109.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 OBJA          USAGE OBJECT REFERENCE.
000006 01 AA REDEFINES OBJA PIC X(08).
000007 01 BB .
000008 02 OBJB          USAGE OBJECT REFERENCE.
000009 01 CC REDEFINES BB PIC X(08).
000010 PROCEDURE        DIVISION.
000011 END PROGRAM      C5109.
```

C5109.cob 6: JMN5109I-S An item redefined by a REDEFINES clause cannot have a USAGE OBJECT REFERENCE clause, or cannot be subordinate to a data item with a USAGE OBJECT REFERENCE clause. The REDEFINES clause is ignored.

C5109.cob 9: JMN5109I-S An item redefined by a REDEFINES clause cannot have a USAGE OBJECT REFERENCE clause, or cannot be subordinate to a data item with a USAGE OBJECT REFERENCE clause. The REDEFINES clause is ignored.

## JMN5110I-S



---

The data-name in the RENAME clause or in the THROUGH phrase cannot have a @1@ clause, or cannot be subordinate to a data item with a @1@ clause. The RENAME clause is ignored.

Parameter Explanation

@1@ : USAGE OBJECT REFERENCE

Example

```
[C5110.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C5110.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A1 .
000006   02 B1          USAGE OBJECT REFERENCE.
000007   02 B2          PIC X(08).
000008   02 B3          USAGE OBJECT REFERENCE.
000009 66 RR RENAME B1 THROUGH B3.
000010 PROCEDURE       DIVISION.
000011 END PROGRAM     C5110.
```

C5110.cob 9: JMN5110I-S The data-name in the RENAME clause or in the THROUGH phrase cannot have a USAGE OBJECT REFERENCE clause, or cannot be subordinate to a data item with a USAGE OBJECT REFERENCE clause. The RENAME clause is ignored.

JMN5111I-S

---

The USAGE OBJECT REFERENCE SELF clause can only be specified in a FACTORY definition or a FACTORY method definition. SELF is ignored.

Example

```
[C5111.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5111.
000003 IDENTIFICATION DIVISION.
000004 FACTORY.
000005 PROCEDURE       DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.      C5111-FM1.
000008 END METHOD      C5111-FM1.
000009 END FACTORY.
000010 IDENTIFICATION DIVISION.
000011 OBJECT.
000012 DATA          DIVISION.
000013 WORKING-STORAGE SECTION.
000014 01 OBJA        USAGE OBJECT REFERENCE SELF.
000015 PROCEDURE       DIVISION.
000016 IDENTIFICATION DIVISION.
000017 METHOD-ID.      C5111-OM1.
000018 DATA          DIVISION.
000019 WORKING-STORAGE SECTION.
000020 01 OBJB        USAGE OBJECT REFERENCE SELF.
000021 END METHOD      C5111-OM1.
000022 END OBJECT.
000023 END CLASS      C5111.
```

C5111.cob 14: JMN5111I-S The USAGE OBJECT REFERENCE SELF clause can only be specified in a FACTORY definition or a FACTORY method definition. SELF is ignored.

C5111.cob 20: JMN5111I-S The USAGE OBJECT REFERENCE SELF clause can only be specified in a FACTORY definition or a FACTORY method definition. SELF is ignored.

## Explanation

The USAGE OBJECT REFERENCE SELF clause declares the area for holding the object (instance) of itself.

### JMN5112I-S

**The USAGE OBJECT REFERENCE @1@ OF SELF clause can only be specified in an object definition or an object method definition. @1@ OF SELF is ignored.**

#### Parameter Explanation

@1@ : FACTORY or CLASS

#### Example

```
[C5112.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5112.
000003 IDENTIFICATION DIVISION.
000004 FACTORY.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 OBJA           USAGE OBJECT REFERENCE FACTORY OF SELF.
000008 01 OBJB           USAGE OBJECT REFERENCE CLASS OF SELF.
000009 PROCEDURE        DIVISION.
000010 IDENTIFICATION DIVISION.
000011 METHOD-ID.        C5112-FM1.
000012 DATA            DIVISION.
000013 WORKING-STORAGE SECTION.
000014 01 OBJC           USAGE OBJECT REFERENCE FACTORY OF SELF.
000015 01 OBJD           USAGE OBJECT REFERENCE CLASS OF SELF.
000016 END METHOD        C5112-FM1.
000017 END FACTORY.
000018 IDENTIFICATION DIVISION.
000019 OBJECT.
000020 PROCEDURE        DIVISION.
000021 IDENTIFICATION DIVISION.
000022 METHOD-ID.        C5112-OM1.
000023 END METHOD        C5112-OM1.
000024 END OBJECT.
000025 END CLASS        C5112.
```

C5112.cob 7: JMN5112I-S The USAGE OBJECT REFERENCE FACTORY OF SELF clause can only be specified in an object definition or an object method definition. FACTORY OF SELF is ignored.

C5112.cob 8: JMN5112I-S The USAGE OBJECT REFERENCE CLASS OF SELF clause can only be specified in an object definition or an object method definition. CLASS OF SELF is ignored.

C5112.cob 14: JMN5112I-S The USAGE OBJECT REFERENCE FACTORY OF SELF clause can only be specified in an object definition or an object method definition. FACTORY OF SELF is ignored.

C5112.cob 15: JMN5112I-S The USAGE OBJECT REFERENCE CLASS OF SELF clause can only be specified in an object definition or an object method definition. CLASS OF SELF is ignored.

## Explanation

The USAGE OBJECT REFERENCE FACTORY OF SELF clause declares the area for holding the factory object. The USAGE OBJECT REFERENCE CLASS OF SELF clause declares the area for holding the object (instance) of itself.

### JMN5113I-S

**The @1@ clause cannot be specified in DATA DIVISION of a factory definition or object definition. The @1@ clause is ignored.**

## Parameter Explanation

@1@ : LINAGE

## Example

```
[C5113.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5113.
000003 IDENTIFICATION DIVISION.
000004 FACTORY.
000005 ENVIRONMENT      DIVISION.
000006 INPUT-OUTPUT    SECTION.
000007   FILE-CONTROL.
000008     SELECT DATAFILE
000009       ASSIGN      TO infile
000010       ORGANIZATION IS SEQUENTIAL.
000011*
000012 DATA            DIVISION.
000013 FILE              SECTION.
000014 FD DATAFILE    LINAGE 10.
000015 01 DATARECORD.
000016 02 ITEMRECORD.
000017 03 ITEMCODE     PIC X(4).
000018 03              PIC X.
000019 03 ITEMNAME     PIC N(20).
000020 03              PIC X.
000021 03 PRICE        PIC 9(4).
000022*
000023 PROCEDURE        DIVISION.
000024 IDENTIFICATION DIVISION.
000025 METHOD-ID.         METHODF1.
000026 END METHOD        METHODF1.
000027 END FACTORY.
000028 IDENTIFICATION DIVISION.
000029 OBJECT.
000030 PROCEDURE        DIVISION.
000031 IDENTIFICATION DIVISION.
000032 METHOD-ID.         METHODO1.
000033 END METHOD        METHODO1.
000034 END OBJECT.
000035 END CLASS        C5113.
```

C5113.cob 14: JMN5113I-S The LINAGE clause cannot be specified in DATA DIVISION of a factory definition or object definition. The LINAGE clause is ignored.

## Explanation

The LINEAGE clause can be specified in the data division of the method definition.

## JMN5114I-S

**The @1@ clause cannot be specified in an item with an OCCURS DEPENDING ON clause. The OCCURS DEPENDING ON clause is ignored.**

## Parameter Explanation

@1@ : USAGE OBJECT REFERENCE

## Example

```
[P5114.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5114.
000003 DATA            DIVISION.
```

```

000004 WORKING-STORAGE SECTION.
000005 01 A.
000006 02 OBJA      USAGE OBJECT REFERENCE
000007              OCCURS 1 TO 10 TIMES
000008              DEPENDING ON DD.
000009 01 DD        PIC S9(04).
000010 PROCEDURE    DIVISION.
000011 END PROGRAM  P5114.

```

P5114.cob 7: JMN5114I-S The USAGE OBJECT REFERENCE clause cannot be specified in an item with an OCCURS DEPENDING ON clause. The OCCURS DEPENDING ON clause is ignored.

## JMN5115I-S

**The item specified in the @1@ clause cannot be subordinate to a data item with an OCCURS DEPENDING ON clause. It is accepted as written.**

### Parameter Explanation

@1@ : USAGE OBJECT REFERENCE

### Example

```

[P5115.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5115.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 AA .
000006 02 BB            OCCURS 1 TO 10 TIMES
000007                  DEPENDING ON DD.
000008 03                OBJA USAGE OBJECT REFERENCE.
000009 01 DD            PIC S9(04).
000010 PROCEDURE        DIVISION.
000011 END PROGRAM      P5115.

```

P5115.cob 8: JMN5115I-S The item specified in the USAGE OBJECT REFERENCE clause cannot be subordinate to a data item with an OCCURS DEPENDING ON clause. It is accepted as written.

## JMN5116I-S

**The @1@ clause cannot be specified in a variable address item. It is accepted as written.**

### Parameter Explanation

@1@ : USAGE OBJECT REFERENCE

### Example

```

[P5116.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5116.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 .
000006 02 .
000007 03 BB            OCCURS 1 TO 10 TIMES DEPENDING ON DD.
000008 04                PIC X(08).
000009 03 OBJA        USAGE OBJECT REFERENCE.
000010 02 OBJB        USAGE OBJECT REFERENCE.
000011 01 DD            PIC S9(04).
000012 PROCEDURE        DIVISION.
000013 END PROGRAM      P5116.

```

P5116.cob 9: JMN5116I-S The USAGE OBJECT REFERENCE clause cannot be specified in a variable address item. It is accepted as written.

P5116.cob 10: JMN5116I-S The USAGE OBJECT REFERENCE clause cannot be specified in a variable address item. It is accepted as written.

## JMN5117I-S

**The @1@ clause cannot be specified for an item specified in an EXTERNAL clause or for its subordinate item. It is accepted as written.**

### Parameter Explanation

@1@ : USAGE OBJECT REFERENCE

### Example

```
[P5117.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5117.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 OBJA          USAGE OBJECT REFERENCE EXTERNAL.
000006 01 AA EXTERNAL.
000007 02 OBJB          USAGE OBJECT REFERENCE.
000008 PROCEDURE       DIVISION.
000009 END PROGRAM     P5117.
```

P5117.cob 5: JMN5117I-S The USAGE OBJECT REFERENCE clause cannot be specified for an item specified in an EXTERNAL clause or for its subordinate item. It is accepted as written.

P5117.cob 7: JMN5117I-S The USAGE OBJECT REFERENCE clause cannot be specified for an item specified in an EXTERNAL clause or for its subordinate item. It is accepted as written.

## JMN5118I-S

**The @1@ clause cannot be specified for a subordinate item with a REDEFINES clause. It is accepted as written.**

### Parameter Explanation

@1@ : USAGE OBJECT REFERENCE

### Example

```
[P5118.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5118.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 AA            PIC X(08).
000006 01 RR REDEFINES AA.
000007 02 OBJA          USAGE OBJECT REFERENCE.
000008 PROCEDURE       DIVISION.
000009 END PROGRAM     P5118.
```

P5118.cob 7: JMN5118I-S The USAGE OBJECT REFERENCE clause cannot be specified for a subordinate item with a REDEFINES clause. It is accepted as written.

## JMN5119I-S

**The @1@ clause can only be specified for the item that is unique with no qualifiers. The @1@ clause is ignored.**

## Parameter Explanation

@1@ : PROPERTY

### Example

```
[C5119.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5119.
000003 ENVIRONMENT      DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA            DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 BB.
000009 02 PROP1 PIC X(8) PROPERTY.
000010 01 AA.
000011 02 PROP1 PIC X(8)
000012                PROPERTY.
000013 01 PROP1 PIC S9(8) BINARY PROPERTY.
000014 PROCEDURE        DIVISION.
000015 IDENTIFICATION DIVISION.
000016 METHOD-ID.       M01.
000017 DATA            DIVISION.
000018 WORKING-STORAGE SECTION.
000019 01 OBR1          USAGE OBJECT REFERENCE.
000020 PROCEDURE        DIVISION.
000021     DISPLAY PROP1 OF OBR1.
000022 END METHOD        M01.
000023 END OBJECT.
000024 END CLASS C5119.
```

C5119.cob 9: JMN5119I-S The PROPERTY clause can only be specified for the item that is unique with no qualifiers. The PROPERTY clause is ignored.

C5119.cob 12: JMN5119I-S The PROPERTY clause can only be specified for the item that is unique with no qualifiers. The PROPERTY clause is ignored.

C5119.cob 13: JMN5119I-S The PROPERTY clause can only be specified for the item that is unique with no qualifiers. The PROPERTY clause is ignored.

## JMN5120I-S

---

**The @1@ clause cannot be specified for a pointer data item. The @1@ clause is ignored.**

## Parameter Explanation

@1@ : PROPERTY

### Example

```
[C5120.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5120.
000003 ENVIRONMENT      DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA            DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 PROP1          POINTER PROPERTY.
000009 PROCEDURE        DIVISION.
000010 IDENTIFICATION DIVISION.
000011 METHOD-ID.       M01.
000012 DATA            DIVISION.
000013 WORKING-STORAGE SECTION.
```

```

000014 01 OBR1      USAGE OBJECT REFERENCE.
000015 PROCEDURE    DIVISION.
000016 END METHOD    MO1.
000017 END OBJECT.
000018 END CLASS    C5120.

```

C5120.cob 8: JMN5120I-S The PROPERTY clause cannot be specified for a pointer data item. The PROPERTY clause is ignored.

## JMN5121I-S

**The data item specified in the @1@ clause cannot appear between a data item in a RENAMES clause and a data item in a THROUGH phrase. The RENAMES clause is ignored.**

### Parameter Explanation

@1@ : USAGE OBJECT REFERENCE

### Example

```

[P5121.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5121.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A .
000006 02 A1           PIC X(08).
000007 02 A2           USAGE OBJECT REFERENCE.
000008 02 A3           PIC X(08).
000009 66 B RENAMES A1 THROUGH A3.
000010 PROCEDURE      DIVISION.
000011 END PROGRAM     P5121.

```

P5121.cob 9: JMN5121I-S The data item specified in the USAGE OBJECT REFERENCE clause cannot appear between a data item in a RENAMES clause and a data item in a THROUGH phrase. The RENAMES clause is ignored.

## JMN5122I-S

**The @1@ clause cannot be specified for an object reference data item with SELF, FACTORY OF SELF, or CLASS OF SELF. The @1@ clause is ignored.**

### Parameter Explanation

@1@ : PROPERTY

### Example

```

[C5122.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.       C5122.
000003 ENVIRONMENT    DIVISION.
000004 OBJECT.
000005 DATA          DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 PP          USAGE OBJECT REFERENCE
000008                      FACTORY OF SELF
000009                      PROPERTY WITH NO GET.
000010 END OBJECT.
000011 END CLASS      C5122.

```

C5122.cob 7: JMN5122I-S The PROPERTY clause cannot be specified for an object reference data item with SELF, FACTORY OF SELF, or CLASS OF SELF. The PROPERTY clause is ignored.

### Explanation

A class-name must be specified for the USAGE OBJECT REFERENCE clause.

## JMN5123I-S

If a special class is specified in the @1@ clause, another optional phrase cannot be specified. Other OPTIONAL phrase is ignored.

### Parameter Explanation

@1@ : USAGE OBJECT REFERENCE

### Example

```
[C5123.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C5123.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006     CLASS C5123C AS "*OLE".
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 OBJA USAGE OBJECT REFERENCE C5123C ONLY.
000010 01 OBJB USAGE OBJECT REFERENCE FACTORY OF C5123C.
000011 01 OBJB USAGE OBJECT REFERENCE FACTORY OF C5123C ONLY.
000012 PROCEDURE DIVISION.
000013 END PROGRAM C5123.
```

C5123.cob 9: JMN5123I-S If a special class is specified in the USAGE OBJECT REFERENCE clause, another optional phrase cannot be specified. Other OPTIONAL phrase is ignored.

C5123.cob 10: JMN5123I-S If a special class is specified in the USAGE OBJECT REFERENCE clause, another optional phrase cannot be specified. Other OPTIONAL phrase is ignored.

C5123.cob 11: JMN5123I-S If a special class is specified in the USAGE OBJECT REFERENCE clause, another optional phrase cannot be specified. Other OPTIONAL phrase is ignored.

### Explanation

If a special class name is specified for the USAGE OBJECT REFERENCE clause, 'FACTORY OF' and 'ONLY' of this clause cannot be specified.

If the literal of a class-specifier in the repository paragraph of the environment division is among those listed below, the class-name is a special class name.

- "\*COM" (or "\*OLE")
- "\*COM-ARRAY" (or "\*OLE-ARRAY")
- "\*COM-EXCEPTION" (or "\*OLE-EXCEPTION")
- "\*COB-BINDTABLE"
- "\*COM:COM server name:COM class name" (COM server name = arbitrary name used for association with a type library, COM class name = dispinterface name or coclass name)

## JMN5125I-S

A 'CHARACTER TYPE' clause with a DEPENDING ON phrase cannot be specified in the DATA DIVISION of @1@.

### Parameter Explanation

@1@ : FACTORY DEFINITION, OBJECT DEFINITION or STATIC DEFINITION.

### Example

```
[C5125.cob]
000001 IDENTIFICATION DIVISION.
```



```

000002 CLASS-ID.          C5125.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 SPECIAL-NAMES.
000006     PRINTING MODE PM1 FOR ALL IN SIZE 5 POINT
000007     PRINTING MODE PM2 FOR ALL FONT GOTHIC
000008     PRINTING MODE PM3 FOR ALL IN SIZE 20 POINT AT ANGLE 90.
000009 FACTORY.
000010 DATA             DIVISION.
000011 WORKING-STORAGE  SECTION.
000012 01 WK1           PIC N(10) CHARACTER TYPE PM1 PM2 PM3
000013                   DEPENDING ON PM-DEP1.
000014 01 PM-DEP1      PIC S9(4) BINARY.
000015 END FACTORY.
000016 OBJECT.
000017 DATA             DIVISION.
000018 WORKING-STORAGE  SECTION.
000019 01 PM-DEP2      PIC S9(4) BINARY.
000020 CONSTANT          SECTION.
000021 01 CS1           PIC N(10) CHARACTER TYPE PM3 PM2 PM1
000022                   DEPENDING ON PM-DEP2
000023                   VALUE NC"CONST".
000024 END OBJECT.
000025 END CLASS        C5125.

```

C5125.cob 12: JMN5125I-S A 'CHARACTER TYPE' clause with a DEPENDING ON phrase cannot be specified in the DATA DIVISION of factory definition.

C5125.cob 21: JMN5125I-S A 'CHARACTER TYPE' clause with a DEPENDING ON phrase cannot be specified in the DATA DIVISION of object definition.

## Explanation

A 'CHARACTER TYPE' clause with a DEPENDING ON phrase can be specified in the data division of the method definition.

## JMN5126I-S

**The @1@ clause cannot be specified in the LINKAGE SECTION of a method prototype definition or a separate method definition. The @1@ clause is ignored.**

## Parameter Explanation

@1@ : CHARACTER TYPE or PRINTING POSITION

## Example

```

[C5126.cob]
000001 IDENTIFICATION  DIVISION.
000002 CLASS-ID.      C5126.
000003 ENVIRONMENT    DIVISION.
000004 CONFIGURATION  SECTION.
000005 SPECIAL-NAMES.
000006     YA IS CT1.
000007 FACTORY.
000008 PROCEDURE        DIVISION.
000009 METHOD-ID.       FMT1.
000010 DATA           DIVISION.
000011 LINKAGE          SECTION.
000012 01 PRM1        PIC N(10) CHARACTER TYPE IS CT1. *> NO ERROR
000013 PROCEDURE      DIVISION USING PRM1.
000014 END METHOD      FMT1.
000015 END FACTORY.
000016 OBJECT.
000017 PROCEDURE      DIVISION.
000018 METHOD-ID.       IMT1 PROTOTYPE.

```

```

000019 DATA          DIVISION.
000020 LINKAGE         SECTION.
000021 01 PRM2         PIC N(10) CHARACTER TYPE MODE-1      *> ERROR
000022                PRINTING POSITION IS 8.                *> ERROR
000023 PROCEDURE       DIVISION RETURNING PRM2.
000024 END METHOD       IMT1.
000025 END OBJECT.
000026 END CLASS      C5126.

```

C5126.cob 21: JMN5126I-S The CHARACTER TYPE clause cannot be specified in the LINKAGE SECTION of a method prototype definition or a separate method definition. The CHARACTER TYPE clause is ignored.

C5126.cob 22: JMN5126I-S The PRINTING POSITION clause cannot be specified in the LINKAGE SECTION of a method prototype definition or a separate method definition. The PRINTING POSITION clause is ignored.

### Explanation

A method prototype is the method-name and parameter types and a returning item (if specified) for a method. A method prototype does not contain the information for print defined by the CHARACTER TYPE clause or the PRINTING POSITION clause.

## JMN5127I-S

**A condition-name cannot be specified for an object reference data item.**

### Example

```

[P5127.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5127.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 X1            OBJECT REFERENCE.
000006 88 A             VALUE "XX" .
000007 END PROGRAM      P5127.

```

P5127.cob 6: JMN5127I-S A condition-name cannot be specified for an object reference data item.

## JMN5128I-S

**The LINAGE clause can only be specified with an EXTERNAL clause in a program definition. The LINAGE clause is ignored.**

### Example

```

[C5128.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.        C5128.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.        METHODF1.
000008 ENVIRONMENT     DIVISION.
000009 INPUT-OUTPUT    SECTION.
000010 FILE-CONTROL.
000011     SELECT MASTRFIL
000012         ASSIGN      TO INFILE
000013         ORGANIZATION IS SEQUENTIAL.
000014 DATA            DIVISION.
000015 FILE             SECTION.
000016 FD MASTRFIL LINAGE 10
000017                 EXTERNAL.
000018 01 MASTREC.
000019 02 PRODUCT-REC.
000020 03 PRODUCT-CODE  PIC X(4).

```

```

000021      03          PIC X.
000022      03  PRODC-TNAME  PIC N(20).
000023      03          PIC X.
000024      03  PRICE        PIC 9(4).
000025*
000026  END METHOD  METHODF1.
000027  END OBJECT.
000028  END CLASS  C5128.

```

C5128.cob 16: JMN5128I-S The LINAGE clause can only be specified with an EXTERNAL clause in a program definition. The LINAGE clause is ignored.

## JMN5129I-S

**The data-name in the @1@ clause cannot be an object reference data item or a group item which contains an object reference data item.**

### Parameter Explanation

@1@ : APPLY SAVED-AREA, CONTROL, SOURCE, DESTINATION CONTROL, TRACK-AREA, ACTUAL KEY, NOMINAL KEY, KEY IS, APPLY REORG-CRITERIA

### Example

```

[C5129.cob]
000001  IDENTIFICATION  DIVISION.
000002  PROGRAM-ID.      C5129.
000003  ENVIRONMENT     DIVISION.
000004  INPUT-OUTPUT    SECTION.
000005  FILE-CONTROL.
000006      SELECT PRFILE ASSIGN TO GS-SYS001
000007      SYMBOLIC DESTINATION IS "PRT"
000008      DESTINATION-1 IS DIST.
000009  I-O-CONTROL.
000010      APPLY SAVED-AREA TO ASV1  ASV2 .
000011  DATA            DIVISION.
000012  FILE SECTION.
000013  FD  PRFILE.
000014  01  PRREC  PIC X(50).
000015  WORKING-STORAGE SECTION.
000016  01  DIST   PIC X(8).
000017  01  ASV1   PIC X(10).
000018  01  ASV2   USAGE OBJECT REFERENCE.
000019  PROCEDURE      DIVISION.
000020      OPEN I-O PRFILE
000021      MOVE "NMSVR20" TO DIST
000022      WRITE  PRREC
000023      READ   PRFILE
000024      CLOSE PRFILE
000025  END PROGRAM      C5129.

```

C5129.cob 10: JMN5129I-S The data-name in the APPLY SAVED-AREA clause cannot be an object reference data item or a group item which contains an object reference data item.

## JMN5130I-S

**The ANY LENGTH clause cannot be specified for a data-item without a PICTURE clause. PICTURE X is assumed.**

### Example

```

[C5130.cob]
000001  IDENTIFICATION  DIVISION.
000002  CLASS-ID.       C5130.

```

```

000003 ENVIRONMENT    DIVISION.
000004 CONFIGURATION  SECTION.
000005 REPOSITORY.
000006 IDENTIFICATION  DIVISION.
000007 OBJECT.
000008 ENVIRONMENT    DIVISION.
000009 DATA           DIVISION.
000010 WORKING-STORAGE SECTION.
000011 PROCEDURE       DIVISION.
000012 IDENTIFICATION  DIVISION.
000013 METHOD-ID.      M5130.
000014 ENVIRONMENT    DIVISION.
000015 DATA           DIVISION.
000016 LINKAGE         SECTION.
000017 01 LK1         ANY LENGTH.
000018 PROCEDURE       DIVISION
000019                 USING LK1.
000020 END METHOD         M5130.
000021 END OBJECT.
000022 END CLASS       C5130.

```

C5130.cob 17: JMN5130I-S The ANY LENGTH clause cannot be specified for a data-item without a PICTURE clause. PICTURE X is assumed.

### Explanation

The ANY LENGTH clause specifies that the length of the data item of the LINKAGE SECTION is determined at execution time. The ANY LENGTH clause can be specified in an item in which only the PICTURE clause is specified. The character string of the PICTURE clause must be one character, either "X" or "N".

### JMN5131I-S

**A data-item with an ANY LENGTH clause can only be specified in a PICTURE clause. It is ignored, and the compiler skips to the next level-number, section or division.**

### Example

```

[C5131.cob]
000001 IDENTIFICATION  DIVISION.
000002 CLASS-ID.      C5131.
000003 ENVIRONMENT    DIVISION.
000004 CONFIGURATION  SECTION.
000005 REPOSITORY.
000006 IDENTIFICATION  DIVISION.
000007 OBJECT.
000008 ENVIRONMENT    DIVISION.
000009 DATA           DIVISION.
000010 WORKING-STORAGE SECTION.
000011 PROCEDURE       DIVISION.
000012 IDENTIFICATION  DIVISION.
000013 METHOD-ID.      M5131.
000014 ENVIRONMENT    DIVISION.
000015 DATA           DIVISION.
000016 LINKAGE         SECTION.
000017 01 LK1         PIC X ANY LENGTH JUSTIFIED.
000018 PROCEDURE       DIVISION
000019                 USING LK1.
000020 END METHOD         M5131.
000021 END OBJECT.
000022 END CLASS       C5131.

```

C5131.cob 17: JMN5131I-S A data-item with an ANY LENGTH clause can only be specified in a PICTURE clause. It is ignored, and the compiler skips to the next level-number, section or division.

## Explanation

The ANY LENGTH clause specifies that the length of the data item of the LINKAGE SECTION is determined at execution time. The ANY LENGTH clause can be specified in an item in which only the PICTURE clause is specified. The character string of the PICTURE clause must be one character, either "X" or "N".

## JMN5132I-S

**An ANY LENGTH clause cannot be specified for a data-item in a get property method or a set property method. The ANY LENGTH clause is ignored.**

### Example

```
[C5132.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5132.
000003 ENVIRONMENT   DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006 IDENTIFICATION DIVISION.
000007 OBJECT.
000008 ENVIRONMENT   DIVISION.
000009 DATA          DIVISION.
000010 WORKING-STORAGE SECTION.
000011 PROCEDURE     DIVISION.
000012 IDENTIFICATION DIVISION.
000013 METHOD-ID.     SET PROPERTY M5132.
000014 ENVIRONMENT   DIVISION.
000015 DATA          DIVISION.
000016 LINKAGE       SECTION.
000017 01 LK1       PIC X ANY LENGTH.
000018 PROCEDURE     DIVISION
000019                USING LK1.
000020 END METHOD.
000021 END OBJECT.
000022 END CLASS     C5132.
```

C5132.cob 17: JMN5132I-S An ANY LENGTH clause cannot be specified for a data-item in a get property method or a set property method. The ANY LENGTH clause is ignored.

## Explanation

The ANY LENGTH clause can be specified in an 01 item that is specified in the LINKAGE SECTION of the method definition, except for the property method.

## JMN5133I-S

**An ANY LENGTH clause cannot be specified for a group item. The ANY LENGTH clause is ignored.**

### Example

```
[C5133.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5133.
000003 ENVIRONMENT   DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006 IDENTIFICATION DIVISION.
000007 OBJECT.
000008 ENVIRONMENT   DIVISION.
000009 DATA          DIVISION.
000010 WORKING-STORAGE SECTION.
000011 PROCEDURE     DIVISION.
000012 IDENTIFICATION DIVISION.
```

```

000013 METHOD-ID.      M5133.
000014 ENVIRONMENT   DIVISION.
000015 DATA          DIVISION.
000016 LINKAGE       SECTION.
000017 01 LK1        PIC X ANY LENGTH.
000018 02 WLENG      PIC S9(4).
000019 02 WBUF       PIC X(40).
000020 PROCEDURE     DIVISION
000021                USING LK1.
000022 END METHOD      M5133.
000023 END OBJECT.
000024 END CLASS     C5133.

```

C5133.cob 17: JMN5133I-S An ANY LENGTH clause cannot be specified for a group item. The ANY LENGTH clause is ignored.

### Explanation

The ANY LENGTH clause specifies that the length of the data item of the LINKAGE SECTION is determined during at execution time. The ANY LENGTH clause can be specified in the item in which only the PICTURE clause is specified. The character string of the PICTURE clause must be one character, either "X" or "N".

## JMN5134I-S

### Data-name @2@ in the @1@ clause cannot have an ANY LENGTH clause.

#### Parameter Explanation

@1@ : Clause of INPUT-OUTPUT SECTION or DATA DIVISION.

@2@ : Data name specified for the @1@ clause.

#### Example

```

[C5134.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5134.
000003 ENVIRONMENT   DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006 IDENTIFICATION DIVISION.
000007 OBJECT.
000008 ENVIRONMENT   DIVISION.
000009 DATA          DIVISION.
000010 WORKING-STORAGE SECTION.
000011 PROCEDURE     DIVISION.
000012 IDENTIFICATION DIVISION.
000013 METHOD-ID.      M5134.
000014 ENVIRONMENT   DIVISION.
000015 INPUT-OUTPUT  SECTION.
000016 FILE-CONTROL.
000017     SELECT SQFILE ASSIGN TO SYS001
000018     FILE STATUS IS LK1.
000019 DATA          DIVISION.
000020 FILE            SECTION.
000021 FD SQFILE.
000022 01 SQREC        PIC X(80).
000023 LINKAGE       SECTION.
000024 01 LK1          PIC X ANY LENGTH.
000025 PROCEDURE     DIVISION
000026                USING LK1.
000027 END METHOD      M5134.
000028 END OBJECT.
000029 END CLASS     C5134.

```

C5134.cob 18: JMN5134I-S Data-name LK1 in the FILE STATUS clause cannot have an ANY LENGTH clause.

## JMN5135I-S

**The data-name of the ASSIGN clause in file-name '@1@' cannot be an item with an ANY LENGTH clause, a group item that includes an object reference item, or a strongly typed item.**

### Parameter Explanation

@1@ : File name specified for the ASSIGN clause that causes the error.

### Example

```
[C5135.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5135.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006 OBJECT.
000007 DATA            DIVISION.
000008 WORKING-STORAGE SECTION.
000009 PROCEDURE        DIVISION.
000010 METHOD-ID.        M5135.
000011 ENVIRONMENT      DIVISION.
000012 INPUT-OUTPUT     SECTION.
000013 FILE-CONTROL.
000014     SELECT SQFILE ASSIGN TO LK1
000015         FILE STATUS IS WFS1.
000016     SELECT SQFILE2 ASSIGN TO WK1.
000017 DATA            DIVISION.
000018 FILE              SECTION.
000019 FD SQFILE.
000020 01 SQREC          PIC X(80).
000021 FD SQFILE2.
000022 01 SQREC2        PIC X(80).
000023 WORKING-STORAGE SECTION.
000024 01 WFS1           PIC X(2).
000025 01 WK1           TYPE TYP1.
000026 01 TYP1          TYPEDEF.
000027 02 DATA1        PIC 9(4).
000028 02 DATA2        PIC X(8).
000029 LINKAGE          SECTION.
000030 01 LK1             PIC X ANY LENGTH.
000031 PROCEDURE        DIVISION
000032                 USING LK1.
000033 END METHOD          M5135.
000034 END OBJECT.
000035 END CLASS        C5135.
```

C5135.cob 19: JMN5135I-S The data-name of the ASSIGN clause in file-name 'SQFILE' cannot be an item with an ANY LENGTH clause, a group item that includes an object reference item, or a strongly typed item.

## JMN5136I-S

**A condition-name cannot be specified for a data-item with an ANY LENGTH clause.**

### Example

```
[C5136.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5136.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006 IDENTIFICATION DIVISION.
```

```

000007 OBJECT.
000008 ENVIRONMENT      DIVISION.
000009 DATA              DIVISION.
000010 WORKING-STORAGE  SECTION.
000011 PROCEDURE         DIVISION.
000012 IDENTIFICATION  DIVISION.
000013 METHOD-ID.        M5136.
000014 ENVIRONMENT      DIVISION.
000015 INPUT-OUTPUT     SECTION.
000016 DATA              DIVISION.
000017 LINKAGE          SECTION.
000018 01 LK1           PIC X ANY LENGTH.
000019 88 ZOK           VALUE "OK" .
000020 88 ZNG           VALUE "OK" .
000021 PROCEDURE         DIVISION
000022                   USING LK1 .
000023 END METHOD          M5136.
000024 END OBJECT.
000025 END CLASS        C5136.

```

C5136.cob 19: JMN5136I-S A condition-name cannot be specified for a data-item with an ANY LENGTH clause.

C5136.cob 20: JMN5136I-S A condition-name cannot be specified for a data-item with an ANY LENGTH clause.

## JMN5137I-S

**The data-name in @1@ cannot be an object reference data item or a group item which contains an object reference data item.**

### Parameter Explanation

@1@ : FROM phrase of PICTURE clause, USING phrase of PICTURE clause, TO phrase of PICTURE clause, PROMPT clause, CONTROL clause, SIZE clause, LINE NUMBER clause or COLUMN NUMBER clause

### Example

```

[P5137.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     P5137.
000003 ENVIRONMENT     DIVISION.
000004 DATA             DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WOBR          OBJECT REFERENCE.
000007 SCREEN           SECTION.
000008 01 WSCR          PIC X(8) USING WOBR.
000009 PROCEDURE        DIVISION.
000010 END PROGRAM       P5137.

```

P5137.cob 8: JMN5137I-S The data-name in USING phrase of the PICTURE clause cannot be an object reference data item or a group item which contains an object reference data item.

## JMN5138I-S

**A strongly-typed group item cannot be specified for the parameter of a get property method or a set property method. The specified parameter is ignored.**

### Example

```

[C5138.cob]
000001 IDENTIFICATION  DIVISION.
000002 CLASS-ID.        C5138.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006 IDENTIFICATION  DIVISION.

```



```

000007 OBJECT.
000008 ENVIRONMENT      DIVISION.
000009 DATA             DIVISION.
000010 WORKING-STORAGE  SECTION.
000011 PROCEDURE        DIVISION.
000012 IDENTIFICATION  DIVISION.
000013 METHOD-ID.       SET PROPERTY M5138.
000014 ENVIRONMENT      DIVISION.
000015 DATA             DIVISION.
000016 LINKAGE          SECTION.
000017 01 LK1          TYPE STY.
000018 01 STY TYPEDEF  STRONG.
000019 02 S1           PIC S9(4) BINARY.
000020 02 S2           PIC X(30).
000021 PROCEDURE        DIVISION
000022                  USING LK1.
000023 END METHOD.
000024 END OBJECT.
000025 END CLASS       C5138.

```

C5138.cob 22: JMN5138I-S A strongly-typed group item cannot be specified for the parameter of a get property method or a set property method. The specified parameter is ignored.

## JMN5140I-S

**'@1@' specified in the TYPE clause must be a unique type-name. The TYPE clause is ignored.**

### Parameter Explanation

@1@ : Symbol specified for the TYPE clause.

### Example

```

[P5140.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     P5140.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A TYPE B.
000006 01 B.
000007 02 B1 PIC S9(9) BINARY.
000008 02 B2 PIC X(1024).
000009 PROCEDURE        DIVISION.
000010          STOP RUN.
000011 END PROGRAM      P5140.

```

P5140.cob 5: JMN5140I-S 'B' specified in the TYPE clause must be a unique type-name. The TYPE clause is ignored.

### Explanation

A type-name must be specified in the TYPE clause that specifies the type declaration. (The type-name is a name declared in the level-number 01 data description entry that specifies the TYPEDEF clause.)

## JMN5141I-S

**The definition of type-name '@1@' refers to type-name '@2@'. '@1@' is ignored.**

### Parameter Explanation

@1@ : User-defined word defined as a type name.

@2@ : User-defined word defined as a type name.

## Example

```
[P5141.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5141.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 X TYPEDEF     TYPE X.
000006 01 A TYPEDEF.
000007 02 A1            PIC S9(9) BINARY.
000008 02 A2            TYPE B.
000009 01 B TYPEDEF.
000010 02 B1            PIC S9(9) BINARY.
000011 02 B2            TYPE C.
000012 01 C TYPEDEF.
000013 02 C1            PIC S9(9) BINARY.
000014 02 C2            TYPE A.
000015 PROCEDURE       DIVISION.
000016     STOP RUN.
000017 END PROGRAM     P5141.
```

P5141.cob 5: JMN5141I-S The definition of type-name 'X' refers to type-name 'X'. 'X' is ignored.

P5141.cob 6: JMN5141I-S The definition of type-name 'A' refers to type-name 'A'. 'A' is ignored.

P5141.cob 9: JMN5141I-S The definition of type-name 'B' refers to type-name 'A'. 'B' is ignored.

P5141.cob 12: JMN5141I-S The definition of type-name 'C' refers to type-name 'A'. 'C' is ignored.

## Explanation

The type can be referred to further by the TYPE clause in the type declaration (data description entry that specifies the TYPEDEF clause). However, the type including own type cannot be referred to.

## JMN5142I-S

**The TYPE clause cannot be specified for an item subordinate to a group item that has a USAGE clause, SIGN clause, SYNCHRONIZED clause, or CHARACTER TYPE clause. It is accepted as written.**

## Example

```
[P5142.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5142.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A TYPEDEF.
000006 02 A1            PIC S9(9).
000007 02 A2            PIC X(80).
000008 01 GRP1 .
000009 02              USAGE BINARY.
000010 03 B1            TYPE A.
000011 03 B2            PIC S9(9).
000012 02              SIGN TRAILING.
000013 03 C1            TYPE A.
000014 PROCEDURE       DIVISION.
000015     STOP RUN.
000016 END PROGRAM     P5142.
```

P5142.cob 10: JMN5142I-S The TYPE clause cannot be specified for an item subordinate to a group item that has a USAGE clause, SIGN clause, SYNCHRONIZED clause, or CHARACTER TYPE clause. It is accepted as written.

P5142.cob 13: JMN5142I-S The TYPE clause cannot be specified for an item subordinate to a group item that has a USAGE clause, SIGN clause, SYNCHRONIZED clause, or CHARACTER TYPE clause. It is accepted as written.

## Explanation

The data description entry that specifies the TYPE clause is called the typed item. The typed item defined by this specification has all of the characteristics of the referenced type. The USAGE clause, the SIGN clause, the SYNCHRONIZED clause or the CHARACTER TYPE clause specified for the item, including the typed item, cannot overwrite the attribute of the typed item.

### JMN5143I-S

**The @1@ clause cannot be specified for an item specified in a TYPEDEF clause or for its subordinate item. The @1@ clause is ignored.**

#### Parameter Explanation

@1@ : REDEFINES, RENAMES, CHARACTER TYPE, PRINTING POSITION, PROPERTY or ANY LENGTH

#### Example

```
[P5143.cob]
000001 PROGRAM-ID.      P5143.
000002 DATA             DIVISION.
000003 WORKING-STORAGE SECTION.
000004 01 VCHR TYPEDEF.
000005 02 LENG           PIC S9(9).
000006 02 XCHR          PIC X(80).
000007 02 NCHR          CHARACTER TYPE MODE-1
000008                   PIC N(40).
000009 01 ADDR          TYPE VCHR.
000010 PROCEDURE        DIVISION.
000011     STOP RUN.
000012 END PROGRAM      P5143.
```

P5143.cob 7: JMN5143I-S The CHARACTER TYPE clause cannot be specified for an item specified in a TYPEDEF clause or for its subordinate item. The CHARACTER TYPE clause is ignored.

### JMN5144I-S

**The data name specified for the @1@ clause cannot be an item which expands from the type. The @1@ clause is ignored.**

#### Parameter Explanation

@1@ : RENAMES

#### Example

```
[P5144.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5144.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 BLOB TYPEDEF.
000006 02 RESEV          PIC S9(9) BINARY.
000007 02 LENG          PIC 9(9) BINARY.
000008 02 BUFF          PIC X(1024).
000009 01 GRP1         .
000010 02 B1            TYPE BLOB.
000011 66 C1 RENAMES   LENG OF B1 THRU BUFF OF B1.
000012 PROCEDURE        DIVISION.
000013     STOP RUN.
000014 END PROGRAM      P5144.
```

P5144.cob 11: JMN5144I-S The data name specified for the RENAMES clause cannot be an item which expands from the type. The RENAMES clause is ignored.

## Explanation

The name included in the referred type cannot be renamed.

### JMN5145I-W

**A value is specified for a type that already has a value. It is accepted as written.**

#### Example

```
[P5145.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5145.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A TYPEDEF    PIC 9(2) VALUE 99.
000006 01 B            TYPE A  VALUE 33.
000007 PROCEDURE       DIVISION.
000008     STOP RUN.
000009 END PROGRAM      P5145.
```

P5145.cob 6: JMN5145I-W A value is specified for a type that already has a value. It is accepted as written.

## Explanation

This message is output when a value is specified for a type that already has a value, such as in the example above, when the VALUE clause is specified for type declaration (TYPEDEF) and the data description entry specifies the TYPE clause that refers to the type. In this case, the VALUE clause of the data description entry that specifies the TYPE clause is effective.

### JMN5146I-S

**The level numbers of items subordinate to the item specified by the type declaration exceed @1@. The items with invalid level-numbers are ignored.**

#### Parameter Explanation

@1@ : 49 or 77

#### Example

```
[P5146.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5146.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 BLOB TYPEDEF.
000006 02 RESEV        PIC S9(9) BINARY.
000007 02 LENG         PIC 9(9) BINARY.
000008 02 BUFF         PIC X(1024).
000009 77 GRP1        TYPE BLOB.
000010 PROCEDURE       DIVISION.
000011     STOP RUN.
000012 END PROGRAM      P5146.
```

P5146.cob 9: JMN5146I-S The level numbers of items subordinate to the item specified by the type declaration exceed 77. The items with invalid level-numbers are ignored.

## Explanation

The hierarchical structure of the record of type (TYPEDEF) is applied to the data description entry that specifies the TYPE clause. As a result, when the level-number of the typed item exceeds 49, this diagnostic message is output.

### JMN5147I-S

---

**A type which is referred to by a conditional variable, must be defined as an elementary item. The condition-name is ignored.**

**Example**

```
[P5147.cob]
000001 PROGRAM-ID.      P5147.
000002 DATA             DIVISION.
000003 WORKING-STORAGE SECTION.
000004 01 BLOB TYPEDEF.
000005   02 RESEV        PIC S9(9) BINARY.
000006   02 LENG         PIC 9(9) BINARY.
000007   02 BUFF         PIC X(1024).
000008 01 GRP1          TYPE BLOB.
000009 88 ZSP           VALUE SPACE.
000010 PROCEDURE        DIVISION.
000011   STOP RUN.
000012 END PROGRAM      P5147.
```

P5147.cob 8: JMN5147I-S A type which is referred to by a conditional variable, must be defined as an elementary item. The condition-name is ignored.

**Explanation**

A data item associated with the condition-name defined by the condition-name description entry (level-number 88) is called a conditional variable. When the TYPE clause is specified for the conditional variable, a type specified for the TYPE clause should be a type of an elementary item.

**JMN5148I-S**

---

**A type which is referred to by a conditional variable cannot have a condition-name. The condition-name is ignored.**

**Example**

```
[P5148.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     P5148.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 COLORV TYPEDEF PIC 9(4).
000006   88 BLUE          VALUE 1.
000007   88 RED           VALUE 2.
000008 01 WBCG          TYPE COLORV.
000009   88 GREEN        VALUE 3.
000010 PROCEDURE        DIVISION.
000011   STOP RUN.
000012 END PROGRAM      P5148.
```

P5148.cob 8: JMN5148I-S A type which is referred to by a conditional variable cannot have a condition-name. The condition-name is ignored.

**Explanation**

A data item associated with the condition-name defined by the condition-name description entry (level-number 88) is called a conditional variable. When the TYPE clause is specified for the conditional variable, a type specified for the TYPE clause must not contain a condition-name description entry.

**JMN5149I-S**

---

**When a TYPE clause is specified for the first elementary item within a group item with a REDEFINES clause, the redefined item must be adjusted to an 8 byte boundary. The TYPE clause is assumed to be valid, but no slack bits are inserted and the object file is not created.**

## Example

```
[P5149.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5149.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 VCHR TYPEDEF.
000006    02 WLENG      PIC S9(4) BINARY.
000007 01 WSTOCK.
000008    02 WPNO       PIC 9(7).
000009    02 WNAM       PIC X(22).
000010    02 WRNAM     REDEFINES WNAM.
000011        03       TYPE VCHR.
000012    02 WQOH      PIC S9(8) BINARY.
000013 PROCEDURE        DIVISION.
000014     STOP RUN.
000015 END PROGRAM      P5149.
```

P5149.cob 11: JMN5149I-S When a TYPE clause is specified for the first elementary item within a group item with a REDEFINES clause, the redefined item must be adjusted to an 8 byte boundary. The TYPE clause is assumed to be valid, but no slack bits are inserted and the object file is not created.

## Explanation

The redefined item must be aligned on an 8-byte boundary.

## JMN5150I-S

**A type which is referred to by a variable-address item must be defined as an elementary item. Boundary not adjusted.**

## Example

```
[P5150.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5150.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 VCHR TYPEDEF.
000006    02 WLENG      PIC S9(4) BINARY.
000007    02 WBUFF     PIC X(20).
000008 01 WVTBL.
000009    02 WQT       PIC S9(4) BINARY.
000010    02 WOCC     OCCURS 10 TIMES DEPENDING ON WQT.
000011        03     PIC X(1).
000012    02 WNAM     TYPE VCHR.
000013 PROCEDURE        DIVISION.
000014     STOP RUN.
000015 END PROGRAM      P5150.
```

P5150.cob 12: JMN5150I-S A type which is referred to by a variable-address item must be defined as an elementary item. Boundary not adjusted.

## Explanation

The variable position in the record is the area allocated after the data description entry that specifies the OCCURS clause with the DEPENDING phrase.

When the TYPE clause is specified in the data description entry that is located in a variable position in a record, the type specified for the TYPE clause should be the type of an elementary item.

## JMN5151I-S

**The type declared in the class definition which has an OCCURS clause with 'DEPENDING ON' or 'KEY IS' cannot be referenced in a separate method. The TYPE clause is ignored.**

#### Example

```
[C5151.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5151.
000003 ENVIRONMENT   DIVISION.
000004 OBJECT.
000005 DATA         DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 VGRP TYPEDEF.
000008     02 OCCURS 3 TO 5 TIMES DEPENDING ON ODO1
000009         PIC S9(4) BINARY.
000010 01 ODO1      PIC S9(4) BINARY.
000011 PROCEDURE     DIVISION.
000012 METHOD-ID.     M5151 PROTOTYPE.
000013 PROCEDURE     DIVISION.
000014 END METHOD     M5151.
000015 END OBJECT.
000016 END CLASS    C5151.
[M5151.cob]
000001 IDENTIFICATION DIVISION.
000002 METHOD-ID.     M5151 OF C5151.
000003 ENVIRONMENT   DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006     CLASS     C5151.
000007 DATA         DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 METDATA    TYPE VGRP.
000010 PROCEDURE     DIVISION.
000011     MOVE ZERO TO METDATA.
000012     EXIT METHOD.
000013 END METHOD     M5151.
```

M5151.cob 9: JMN5151I-S The type declared in the class definition which has an OCCURS clause with 'DEPENDING ON' or 'KEY IS' cannot be referenced in a separate method. The TYPE clause is ignored.

#### JMN5152I-S

**A type declaration with a STRONG phrase must be a group item. The STRONG phrase is ignored.**

#### Example

```
[P5152.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P5152.
000003 ENVIRONMENT   DIVISION.
000004 DATA         DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 STY TYPEDEF STRONG
000007         PIC X(20).
000008 PROCEDURE     DIVISION.
000009 END PROGRAM    P5152.
```

P5152.cob 6: JMN5152I-S A type declaration with a STRONG phrase must be a group item. The STRONG phrase is ignored.

#### Explanation

STRONG cannot be specified for elementary items.

## JMN5153I-S

**A type declaration with a STRONG phrase or a strongly typed item cannot contain a @1@ clause.**

### Parameter Explanation

@1@ : VALUE, REDEFINES, OCCURS DEPENDING ON or USAGE OBJECT REFERENCE with SELF.

### Example

```
[P5153.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     P5153.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 STY1 TYPEDEF STRONG.
000007 02 ITEM11 PIC X(20) VALUE SPACE.
000008 02 ITEM12 PIC S9(9) BINARY.
000009 01 DATA1 TYPE STY2 VALUE SPACE.
000010 01 STY2 TYPEDEF STRONG.
000011 02 ITEM2 PIC X(20).
000012 01 STY3 TYPEDEF STRONG.
000013 02 ITEM3 PIC X(20).
000014 02 ITEM3R REDEFINES ITEM3.
000015 03 ITEM31 PIC X(10).
000016 03 ITEM32 TYPE STY2 VALUE SPACE.
000017 PROCEDURE DIVISION.
000018 END PROGRAM P5153.
```

P5153.cob 7: JMN5153I-S A type declaration with a STRONG phrase or a strongly typed item cannot contain a VALUE clause.

P5153.cob 9: JMN5153I-S A type declaration with a STRONG phrase or a strongly typed item cannot contain a VALUE clause.

P5153.cob 14: JMN5153I-S A type declaration with a STRONG phrase or a strongly typed item cannot contain a REDEFINES clause.

P5153.cob 16: JMN5153I-S A type declaration with a STRONG phrase or a strongly typed item cannot contain a VALUE clause.

### Explanation

A strongly typed item is a data description entry that specifies the TYPE clause that refers to type declaration (TYPEDEF) with a STRONG phrase.

## JMN5154I-S

**A strongly typed item cannot be defined in the BASED-STORAGE SECTION. A weakly typed item is assumed.**

### Example

```
[P5154.cob]
000001 IDENTIFICATION  DIVISION.
000002 PROGRAM-ID.     P5154.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 BASED-STORAGE SECTION.
000006 01 DATA1 TYPE STY1.
000007 WORKING-STORAGE SECTION.
000008 01 STY1 TYPEDEF STRONG.
000009 02 ITEM11 PIC X(4) .
000010 02 ITEM12 PIC X(4) .
000011 PROCEDURE DIVISION.
000012 END PROGRAM P5154.
```

P5154.cob 6: JMN5154I-S A strongly typed item cannot be defined in the BASED-STORAGE SECTION. A weakly typed item is assumed.



## Explanation

The TYPE clause that refers the type (TYPEDEF) defined with a STRONG phrase cannot be specified for data description entries of the BASED-STORAGE SECTION.

## JMN5155I-S

**A type declaration with a STRONG phrase can only be referred by a level 01 data item or by an item that is subordinate to a type declaration with a STRONG phrase. A weakly typed item is assumed.**

## Example

```
[P5155.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5155.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 STY1 TYPEDEF STRONG.
000007 02 ITEM11      PIC X(4) .
000008 02 ITEM12      PIC X(4) .
000009 01 DATA1.
000010 02 DATA2      TYPE STY1.
000011 PROCEDURE DIVISION.
000012 END PROGRAM    P5155.
```

P5155.cob 10: JMN5155I-S A type declaration with a STRONG phrase can only be referred by a level 01 data item or by an item that is subordinate to a type declaration with a STRONG phrase. A weakly typed item is assumed.

## JMN5156I-S

**Data-name @2@ in the @1@ cannot be a strongly typed item.**

## Parameter Explanation

@1@ : Clause of the INPUT-OUTPUT SECTION or DATA DIVISION.

@2@ : Data name specified for the @1@.

## Example

```
[P5156.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5156.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT     SECTION.
000005 FILE-CONTROL.
000006     SELECT FILE1 ASSIGN TO SYS001
000007     FILE STATUS DATA1.
000008 DATA           DIVISION.
000009 FILE SECTION.
000010 FD FILE1.
000011 01 RECL          PIC X(80) .
000012 WORKING-STORAGE SECTION.
000013 01 STY1 TYPEDEF STRONG.
000014 02 ITEM11      PIC X(4) .
000015 02 ITEM12      PIC X(4) .
000016 01 DATA1      TYPE STY1.
000017 PROCEDURE DIVISION.
000018 END PROGRAM    P5156.
```

## Explanation

A strongly typed item is a data description entry that specifies the TYPE clause that refers to type declaration (TYPEDEF) with a STRONG phrase.

## JMN5157I-S

The TYPEDEF clause has a STRONG phrase that cannot be specified with a TYPE clause. The STRONG phrase is ignored.

### Example

```
[P5157.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5157.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 STY  TYPEDEF STRONG
000007                TYPE TYP1.
000008 01 TYP1 TYPEDEF.
000009 02 T1          PIC X(10).
000010 PROCEDURE      DIVISION.
000011 END PROGRAM    P5157.
```

P5157.cob 7: JMN5157I-S The TYPEDEF clause has a STRONG phrase that cannot be specified with a TYPE clause. The STRONG phrase is ignored.

## JMN5158I-S

If the runtime code set of national data is unicode, data-name '@2@' in the @1@ clause cannot be a group item that contains a national item. It is accepted as written.

### Parameter Explanation

@1@ : ASSIGN

@2@ : Data name specified for @1@ clause

### Example

```
[P5158.cob]
000001 @OPTIONS RCS(UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P5158.
000004 ENVIRONMENT     DIVISION.
000005 INPUT-OUTPUT    SECTION.
000006 FILE-CONTROL.
000007     SELECT SQFILE1 ASSIGN TO WFILNM
000008     ORGANIZATION  IS SEQUENTIAL
000009     FILE STATUS   IS WFS1.
000010 I-O-CONTROL.
000011 DATA           DIVISION.
000012 FILE           SECTION.
000013 FD SQFILE1.
000014 01 SQF1REC.
000015 02           PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 01 WFS1        PIC X(2).
000018 01 WFILNM.
000019 02           PIC N(10).
000020 PROCEDURE      DIVISION.
000021 END PROGRAM    P5158.
```

P5158.cob 18: JMN5158I-S If the runtime code set of national data is unicode, data-name 'WFILNM' in the ASSIGN clause cannot be a group item that contains a national item. It is accepted as written.

## Explanation

When NetCOBOL handles Unicode data, UCS-2 is used for the encoding form of national data items, and UTF-8 is used for the encoding form of group items (this class is alphanumeric). If the data item is treated as a group item, the national item subordinate to the group item cannot have an appropriate value because the data of the UTF-8 encoding form is stored in the area of the national item also.

## JMN5159I-S

**If the runtime code set of national data is unicode, the line sequential file record cannot have both national and non-national items.**

### Example

```
[P5159.cob]
000001 @OPTIONS RCS(UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P5159.
000004 ENVIRONMENT      DIVISION.
000005 INPUT-OUTPUT     SECTION.
000006 FILE-CONTROL.
000007     SELECT SQFILE1 ASSIGN TO SYS001
000008     ORGANIZATION   IS LINE SEQUENTIAL
000009     FILE STATUS    IS WFS1.
000010 I-O-CONTROL.
000011 DATA             DIVISION.
000012 FILE              SECTION.
000013 FD SQFILE1.
000014 01 SQF1REC1.
000015 02                PIC X(80).
000016 01 SQF1REC2.
000017 02                PIC N(40).
000018 WORKING-STORAGE SECTION.
000019 01 WFS1            PIC X(2).
000020 PROCEDURE          DIVISION.
000021 END PROGRAM       P5159.
```

P5159.cob 13: JMN5159I-S If the runtime code set of national data is unicode, the line sequential file record cannot have both national and non-national items.

## Explanation

When NetCOBOL handles Unicode data, UCS-2 is used for the encoding form of national data items, and ASCII(UTF-8) is used for the encoding form of alphanumeric items. Data with different encoding forms cannot be treated at the same time in one record.

## JMN5160I-W

**Group item '@2@' which contains a national item is specified as a data-name of the @1@ clause. If the runtime code set of national data is unicode, the national part of this item is not compared as national.**

### Parameter Explanation

@1@ : RECORD KEY, ALTERNATE RECORD KEY, KEY IS.

@2@ : Data name that causes the error

### Example

```
[P5160.cob]
000001 @OPTIONS RCS(UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P5160.
000004 ENVIRONMENT      DIVISION.
000005 INPUT-OUTPUT     SECTION.
000006 FILE-CONTROL.
```

```

000007      SELECT IXFILE1 ASSIGN TO SYS001
000008          ORGANIZATION      IS INDEXED
000009          RECORD KEY        IS KEY1.
000010 I-O-CONTROL.
000011 DATA          DIVISION.
000012 FILE          SECTION.
000013 FD IXFILE1.
000014 01 IXF1REC.
000015 02 KEY1.
000016 03          PIC N(2).
000017 02          PIC X(80).
000018 WORKING-STORAGE SECTION.
000019 PROCEDURE      DIVISION.
000020 END PROGRAM      P5160.

```

P5160.cob 9: JMN5160I-W Group item 'KEY1' which contains a national item is specified as a data-name of the RECORD KEY clause. If the runtime code set of national data is unicode, the national part of this item is not compared as national.

### Explanation

When NetCOBOL handles Unicode data, UCS-2 is used for the encoding form of national data items, and UTF-8 is used for the encoding form of group items (this class is alphanumeric). If the data item is treated as a group item, the national item subordinate to the group item cannot have an appropriate value because the data of the UTF-8 encoding form is stored in the area of a national item also.

## JMN5260I-S

**Data-name @2@ in the @1@ clause cannot have a @3@ clause.**

### Parameter Explanation

@1@ : Clause of INPUT-OUTPUT SECTION or DATA DIVISION.

@2@ : Data name that causes the error.

@3@ : USAGE BINARY-CHAR.

### Example

```

[C5260.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C5260.
000003 ENVIRONMENT      DIVISION.
000004 INPUT-OUTPUT      SECTION.
000005 FILE-CONTROL.
000006      SELECT RLFILE1 ASSIGN TO SYS001
000007          ORGANIZATION      IS RELATIVE
000008          RELATIVE KEY IS WRKY
000009          FILE STATUS      IS WFS1.
000010 I-O-CONTROL.
000011 DATA          DIVISION.
000012 FILE          SECTION.
000013 FD RLFILE1.
000014 01 RLF1REC.
000015 02          PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 01 WFS1          PIC X(2).
000018 01 WRKY          BINARY-CHAR UNSIGNED.
000019 PROCEDURE      DIVISION.
000020 END PROGRAM      C5260.

```

C5260.cob 8: JMN5260I-S Data-name WRKY in the RELATIVE KEY clause cannot have a USAGE BINARY-CHAR clause.

## JMN5400I-U

---

**Compiler restriction. Total size of data items, and compiler generation area exceeds maximum value. Compilation terminated.**

Example

```
[C5400.cob]
000001 PROGRAM-ID. C5400.
000002 DATA DIVISION.
000003 WORKING-STORAGE SECTION.
000004 01 A PIC X(1500000000).
000005 01 B PIC X(1500000000).
000006 PROCEDURE DIVISION.
000007 P-START.
000008 MOVE A TO B.
000009 STOP RUN.
```

C5400.cob 0: JMN5400I-U Compiler restriction. Total size of data items, and compiler generation area exceeds maximum value. Compilation terminated.

**JMN5410I-U**

---

**The program size is too large for this system. Compilation terminated. The program should be separated into proper size programs.**

**JMN5500I-S**

---

**The identifier in the @1@ statement must be a specified object reference identifier.**

Parameter Explanation

@1@ : RAISE.

Example

```
[C5500.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C5500.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID M5500.
000008 DATA DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 AAA PIC X(4).
000011 PROCEDURE DIVISION.
000012 RAISE AAA
000013 END METHOD M5500.
000014 END OBJECT.
000015 END CLASS C5500.
```

C5500.cob 12: JMN5500I-S The identifier in the RAISE statement must be a specified object reference identifier.

**JMN5501I-S**

---

**An @2@ phrase cannot be specified in a @1@ statement.**

Parameter Explanation

@1@ : RAISE.

@2@ : EXCEPTION.

## Example

```
[C5501.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5501.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE          DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID          M5501.
000008 PROCEDURE          DIVISION.
000009     RAISE EXCEPTION EC-00
000010 END METHOD          M5501.
000011 END OBJECT.
000012 END CLASS          C5501.
```

C5501.cob 9: JMN550II-S An EXCEPTION phrase cannot be specified in a RAISE statement.

## JMN5504I-S

**An object property or in-line method invocation cannot be specified in the USING phrase of the @1@ statement. The @1@ statement is ignored.**

### Parameter Explanation

@1@ : INVOKE or CALL.

## Example

```
[C5504.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5504.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 DATA              DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 PR5504          PIC S9(9) COMP-5 PROPERTY.
000008 PROCEDURE DIVISION.
000009 IDENTIFICATION DIVISION.
000010 METHOD-ID.          M5504.
000011 DATA              DIVISION.
000012 LINKAGE            SECTION.
000013 01 LK1             PIC S9(9) COMP-5.
000014 01 LK2             PIC S9(9) COMP-5.
000015 PROCEDURE          DIVISION USING      LK1
000016                                RETURNING LK2.
000017 END METHOD          M5504.
000018 END OBJECT.
000019 END CLASS          C5504.
[P5504.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.        P5504.
000003 ENVIRONMENT        DIVISION.
000004 CONFIGURATION      SECTION.
000005 REPOSITORY.
000006     CLASS C5504.
000007 DATA              DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 WOBR USAGE OBJECT REFERENCE C5504.
000010 PROCEDURE DIVISION.
000011* object property
000012     INVOKE WOBR "M5504" USING PR5504 OF WOBR
000013* in-line invocation
```

```

000014      INVOKE WOBR "M5504" USING WOBR :: "M5504" (12)
000015 END PROGRAM      P5504.

```

P5504.cob 12: JMN5504I-S An object property or in-line method invocation cannot be specified in the USING phrase of the INVOKE statement. The INVOKE statement is ignored.

P5504.cob 14: JMN5504I-S An object property or in-line method invocation cannot be specified in the USING phrase of the INVOKE statement. The INVOKE statement is ignored.

### Explanation

Store the result of the in-line method invocation or the object property in another data item, and specify the data item for the USING phrase.

## JMN5505I-S

**Method-name '@3@' specified for @1@ is not defined in class '@2@'. @1@ is ignored.**

### Parameter Explanation

@1@ : INVOKE statement or method inline invocation.

@2@ : Class name that causes the error.

@3@ : Method name that causes the error.

### Example

```

[C5505.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5505.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE         DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.         M5505X.
000008 PROCEDURE         DIVISION.
000009 END METHOD         M5505X.
000010 END OBJECT.
000011 END CLASS        C5505.
[P5505.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.       P5505.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006      CLASS C5505.
000007 DATA            DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 WOBR          OBJECT REFERENCE C5505.
000010 PROCEDURE         DIVISION.
000011      INVOKE WOBR "M5505".
000012 END PROGRAM      P5505.

```

P5505.cob 11: JMN5505I-S Method-name 'M5505' specified for INVOKE statement is not defined in class 'C5505'. INVOKE statement is ignored.

### Explanation

Confirm that the target method exists in the class that specifies it. Check the method-name and the parameter interface.

## JMN5507I-S

**The identifier in the RAISING phrase of the @1@ statement must be an object reference identifier.**

## Parameter Explanation

@1@ : EXIT

## Example

```
[C5507.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5507.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE          DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.         M5507.
000008 DATA              DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WERROR          PIC X(20).
000011 PROCEDURE          DIVISION.
000012     EXIT METHOD RAISING WERROR
000013 END METHOD          M5507.
000014 END OBJECT.
000015 END CLASS         C5507.
```

C5507.cob 12: JMN5507I-S The identifier in the RAISING phrase of the EXIT statement must be an object reference identifier.

## JMN5508I-S

---

**The @1@ statement can only be specified in a program definition.**

## Parameter Explanation

@1@ : CONNECT, DISCONNECT, ERASE, ENTRY, FIND, FINISH, GET, IF DB-EXCEPTION, MODIFY, READY, STORE or USE FOR DB-EXCEPTION

## Example

```
[C5508.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5508.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 DATA              DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE          DIVISION.
000008 IDENTIFICATION DIVISION.
000009 METHOD-ID.         M5508.
000010 ENVIRONMENT        DIVISION.
000011 DATA              DIVISION.
000012 LINKAGE            SECTION.
000013 01 LK1             PIC X.
000014 PROCEDURE          DIVISION.
000015     READY.
000016 END METHOD          M5508.
000017 END OBJECT.
000018 END CLASS         C5508.
```

C5508.cob 15: JMN5508I-S The READY statement can only be specified in a program definition.

## JMN5509I-S

---

**@1@ cannot be specified for a receiving item.**



## Parameter Explanation

@1@ : Predefined object identifier SELF, predefined object identifier SUPER, predefined object identifier EXCEPTION-OBJECT, class-name, in-line method invocation or identifier with object modifier.

## Example

```
[C5509.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5509.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 IDENTIFICATION  DIVISION.
000006 OBJECT.
000007 PROCEDURE        DIVISION.
000008 IDENTIFICATION  DIVISION.
000009 METHOD-ID.        M5509.
000010 DATA            DIVISION.
000011 LINKAGE          SECTION.
000012 01 LK1           PIC X(2).
000013 PROCEDURE        DIVISION RETURNING LK1.
000014     SET SELF TO NULL.
000015     MOVE SPACE TO SELF :: "M5509"
000016 END METHOD        M5509.
000017 END OBJECT.
000018 END CLASS        C5509.
```

C5509.cob 14: JMN5509I-S Predefined object identifier SELF cannot be specified for a receiving item.

C5509.cob 15: JMN5509I-S In-line method invocation cannot be specified for a receiving item.

## JMN5510I-S

**The @1@ phrase and the @2@ phrase cannot be specified simultaneously. The @2@ phrase is ignored.**

## Parameter Explanation

@1@ : WITH

@2@ : RAISING

## Example

```
[P5510.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5510.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 DATA            DIVISION.
000006 LINKAGE          SECTION.
000007 PROCEDURE        DIVISION
000008                   WITH STDCALL LINKAGE
000009                   RAISING BASE.
000010     DISPLAY "PARAMETER ERROR" .
000011     STOP RUN.
```

P5510.cob 9: JMN5510I-S The WITH phrase and the RAISING phrase cannot be specified simultaneously. The RAISING phrase is ignored.

## JMN5511I-S

**The @1@ phrase cannot be specified in the PROCEDURE DIVISION of a method definition.**

## Parameter Explanation

@1@ : WITH

## Example

```
[C5511.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5511.
000003 ENVIRONMENT      DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 PROCEDURE        DIVISION.
000007 IDENTIFICATION DIVISION.
000008 METHOD-ID.        MF1.
000009 DATA            DIVISION.
000010 PROCEDURE        DIVISION WITH STDCALL LINKAGE.
000011     DISPLAY "PHRASE ERROR".
000012 END METHOD MF1.
000013 END OBJECT.
000014 END CLASS C5511.
```

C5511.cob 10: JMN5511I-S The WITH phrase cannot be specified in the PROCEDURE DIVISION of a method definition.

## Explanation

The WITH phrase of the procedure division header specifies the calling conventions for a called program. The calling conventions cannot be specified in the method definition.

## JMN5512I-S

---

### A RETURNING phrase can only have one operand.

## Example

```
[C5512.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5512.
000003 ENVIRONMENT      DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA            DIVISION.
000007 WORKING-STORAGE SECTION.
000008 PROCEDURE        DIVISION.
000009 IDENTIFICATION DIVISION.
000010 METHOD-ID.        M5512.
000011 DATA            DIVISION.
000012 LINKAGE          SECTION.
000013 01 LK1           PIC S9(4) DISPLAY.
000014 01 LK2           PIC X(4).
000015 PROCEDURE        DIVISION RETURNING LK1 LK2.
000016     DISPLAY "PARAMETER ERROR".
000017 END METHOD        M5512.
000018 END OBJECT.
000019 END CLASS C5512.
```

C5512.cob 15: JMN5512I-S A RETURNING phrase can only have one operand.

## Explanation

The data description entry that stores the value returned to the calling program is specified in the RETURNING phrase of the procedure division header. Only one value can be returned.

## JMN5513I-S

---

**Operand '@1@' in the @2@ phrase must be defined in the LINKAGE SECTION of this source unit as a level 01 or 77 item without a REDEFINES clause.**

## Parameter Explanation

@1@ : User-defined word specified for USING or RETURNING parameter.

@2@ : USING or RETURNING.

## Example

```
[C5513.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.        C5513.
000003 ENVIRONMENT     DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA           DIVISION.
000007 WORKING-STORAGE SECTION.
000008 PROCEDURE      DIVISION.
000009 IDENTIFICATION DIVISION.
000010 METHOD-ID.      M5513.
000011 DATA           DIVISION.
000012 WORKING-STORAGE SECTION.
000013 01 WK1          PIC X(8).
000014 LINKAGE         SECTION.
000015 01 LK1          PIC X(8).
000016 01 LK2          PIC S9(4) DISPLAY.
000017 01 RET          REDEFINES LK2 PIC X(4).
000018 PROCEDURE      DIVISION
000019                 USING WK1 LK1
000020                 RETURNING RET.
000021                 DISPLAY "PARAMETER ERROR".
000022 END METHOD        M5513.
000023 END OBJECT.
000024 END CLASS       C5513.
```

C5513.cob 19: JMN5513I-S Operand 'WK1' in the USING phrase must be defined in the LINKAGE SECTION of this source unit as a level 01 or 77 item without a REDEFINES clause.

C5513.cob 20: JMN5513I-S Operand 'RET' in the RETURNING phrase must be defined in the LINKAGE SECTION of this source unit as a level 01 or 77 item without a REDEFINES clause.

## JMN5514I-S

**'@1@' is already specified as the operand in the USING phrase.**

## Parameter Explanation

@1@ : User-defined word specified for the USING parameter.

## Example

```
[C5514.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.        C5514.
000003 ENVIRONMENT     DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA           DIVISION.
000007 WORKING-STORAGE SECTION.
000008 PROCEDURE      DIVISION.
000009 IDENTIFICATION DIVISION.
000010 METHOD-ID.      M01.
000011 DATA           DIVISION.
000012 LINKAGE         SECTION.
000013 01 LK1          PIC X(10).
000014 01 LK2          PIC X(10).
```

```

000015 PROCEDURE      DIVISION USING LK1 LK1.
000016      DISPLAY "PARAMETER ERROR" .
000017 END METHOD      MO1.
000018 END OBJECT.
000019 END CLASS C5514.

```

C5514.cob 15: JMN5514I-S 'LK1' is already specified as the operand in the USING phrase.

### Explanation

The data-name of one data description entry cannot be specified two or more times for the USING phrase of the procedure division header.

## JMN5515I-S

**SELF, FACTORY OF SELF, and CLASS OF SELF cannot be specified as operand '@1@' in a USING phrase of a PROCEDURE DIVISION.**

### Parameter Explanation

@1@ : User-defined word that is the name of the object reference data item.

### Example

```

[C5515.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5515.
000003 ENVIRONMENT   DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA          DIVISION.
000007 WORKING-STORAGE SECTION.
000008 PROCEDURE      DIVISION.
000009 IDENTIFICATION DIVISION.
000010 METHOD-ID.      M5515.
000011 DATA          DIVISION.
000012 LINKAGE        SECTION.
000013 01 LK1         USAGE OBJECT REFERENCE CLASS OF SELF.
000014 01 LK2         PIC S9(4) BINARY.
000015 PROCEDURE      DIVISION USING LK1 LK2.
000016      DISPLAY "PARAMETER ERROR" .
000017 END METHOD      M5515.
000018 END OBJECT.
000019 END CLASS      C5515.

```

C5515.cob 15: JMN5515I-S SELF, FACTORY OF SELF, and CLASS OF SELF cannot be specified as operand 'LK1' in a USING phrase of a PROCEDURE DIVISION.

## JMN5516I-S

**The operand in the RETURNING phrase cannot be the same as the operand in the USING phrase.**

### Example

```

[C5516.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5516.
000003 ENVIRONMENT   DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA          DIVISION.
000007 WORKING-STORAGE SECTION.
000008 PROCEDURE      DIVISION.
000009 IDENTIFICATION DIVISION.
000010 METHOD-ID.      M5516.

```

```

000011 DATA          DIVISION.
000012 LINKAGE        SECTION.
000013 01 LK1         PIC S9(4) DISPLAY.
000014 01 LK2         PIC X(4) .
000015 PROCEDURE     DIVISION
000016                USING LK1 RETURNING LK1.
000017      DISPLAY  "PARAMETER ERROR" .
000018 END METHOD      M5516.
000019 END OBJECT.
000020 END CLASS      C5516.

```

C5516.cob 16: JMN5516I-S The operand in the RETURNING phrase cannot be the same as the operand in the USING phrase.

### Explanation

Specify another item.

### JMN5517I-S

---

**The @2@ phrase cannot be specified in the PROCEDURE DIVISION header of @1@.**

#### Parameter Explanation

@1@ : factory definition, static definition, object definition or interface definition.

@2@ : USING, RETURNING or WITH.

### JMN5518I-S

---

**DECLARATIVES cannot be specified in the PROCEDURE DIVISION of @1@.**

#### Parameter Explanation

@1@ : Factory definition, object definition

#### Example

```

[C5518.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5518.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 IDENTIFICATION DIVISION.
000006 OBJECT.
000007 DATA            DIVISION.
000008 WORKING-STORAGE SECTION.
000009 PROCEDURE       DIVISION.
000010 DECLARATIVES.
000011 ERR-1 SECTION.
000012      USE AFTER EXCEPTION C5518.
000013      DISPLAY  "*** ERROR ***".
000014 END DECLARATIVES.
000015 END OBJECT.
000016 END CLASS          C5518.

```

C5518.cob 10: JMN5518I-S DECLARATIVES cannot be specified in the PROCEDURE DIVISION of object definition.

### Explanation

Only the procedure division header can be specified.

### JMN5519I-S

---

**An EXIT PROGRAM statement cannot be specified in a method definition.**

## Example

```
[C5519.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5519.
000003 ENVIRONMENT   DIVISION.
000004 CONFIGURATION SECTION.
000005 IDENTIFICATION DIVISION.
000006 OBJECT.
000007 PROCEDURE     DIVISION.
000008 IDENTIFICATION DIVISION.
000009 METHOD-ID.     M5519.
000010 PROCEDURE     DIVISION.
000011     EXIT PROGRAM
000012 END METHOD      M5519.
000013 END OBJECT.
000014 END CLASS     C5519.
```

C5519.cob 11: JMN5519I-S An EXIT PROGRAM statement cannot be specified in a method definition.

## Explanation

The EXIT PROGRAM statement is specified in the procedure division of the program definition.

## JMN5520I-S

---

**An EXIT METHOD statement can only be specified in a method definition.**

## Example

```
[P5520.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P5520.
000003 ENVIRONMENT   DIVISION.
000004 DATA          DIVISION.
000005 PROCEDURE     DIVISION.
000006     EXIT METHOD
000007 END PROGRAM     P5520.
```

P5520.cob 6: JMN5520I-S An EXIT METHOD statement can only be specified in a method definition.

## JMN5521I-S

---

**'@1@' must be the class-name that is specified in the REPOSITORY paragraph.**

## Parameter Explanation

@1@ : Data name specified for the RAISING phrase.

## Example

```
[P5521.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P5521.
000003 ENVIRONMENT   DIVISION.
000004 DATA          DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA1         PIC X(10).
000007 PROCEDURE     DIVISION
000008     RAISING WDA1.
000009 END PROGRAM     P5521.
```

P5521.cob 8: JMN5521I-S 'WDA1' must be the class-name that is specified in the REPOSITORY paragraph.

## Explanation

The class-name that is declared in a class-specifier in the repository paragraph of the environment division is specified for the RAISING phrase of the procedure division header.

### JMN5522I-S

---

#### Class-name '@1@' cannot be the name of a special class.

#### Parameter Explanation

@1@ : User-defined word specified as a class name.

#### Example

```
[C5522.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5522.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     CLASS COM AS "*OLE".
000007     IDENTIFICATION DIVISION.
000008 OBJECT.
000009 DATA             DIVISION.
000010 WORKING-STORAGE SECTION.
000011 PROCEDURE        DIVISION.
000012 IDENTIFICATION DIVISION.
000013 METHOD-ID.       M5522.
000014 DATA           DIVISION.
000015 PROCEDURE      DIVISION
000016                 RAISING COM.
000017     DISPLAY "PARAMETER ERROR" .
000018 END METHOD      M5522.
000019 END OBJECT.
000020 END CLASS C5522.
```

C5522.cob 16: JMN5522I-S Class-name 'COM' cannot be the name of a special class.

## Explanation

The special class name cannot be specified for the RAISING phrase of the procedure division header or the USE statement of the exception object.

If the literal of a class-specifier in the repository paragraph of the environment division is below, the class-name is a special class name.

- "\*COM" (or "\*OLE")
- "\*COM-ARRAY" (or "\*OLE-ARRAY")
- "\*COM-EXCEPTION" (or "\*OLE-EXCEPTION")
- "\*COB-BINDTABLE"
- "\*COM:COM server name:COM class name" (COM server name = arbitrary name used for association with a type library, COM class name = dispinterface name or coclass name)

### JMN5525I-S

---

#### The identifier specified immediately after @1@ must be an object identifier. The @1@ statement is ignored.

#### Parameter Explanation

@1@ : INVOKE

## Example

```
[P5525.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5525.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WDX           PIC X(08).
000006 PROCEDURE       DIVISION.
000007     INVOKE WDX  "M5525".
000008 END PROGRAM     P5525.
```

P5525.cob 7: JMN5525I-S The identifier specified immediately after INVOKE must be an object identifier. The INVOKE statement is ignored.

## Explanation

The object with the target procedure (method) is identified by the object identifier specified just after INVOKE.

## JMN5526I-S

**The method-name specified in the INVOKE statement must be an identifier, nonnumeric literal, or national character literal. The INVOKE statement is ignored.**

## Example

```
[P5526.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5526.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WOBR          USAGE OBJECT REFERENCE.
000006 PROCEDURE       DIVISION.
000007 L5526.
000008     INVOKE WOBR L5526.
000009 END PROGRAM     P5526.
```

P5526.cob 8: JMN5526I-S The method-name specified in the INVOKE statement must be an identifier, nonnumeric literal, or national character literal. The INVOKE statement is ignored.

## JMN5527I-S

**If identifier '@1@' is specified in an INVOKE statement, the identifier specified immediately after INVOKE must be an identifier specified untyped OBJECT REFERENCE clause. The INVOKE statement is ignored.**

## Parameter Explanation

@1@ : Identifier which causes error.

## Example

```
[C5527.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.        C5527.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE       DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.        M5527.
000008 ENVIRONMENT     DIVISION.
000009 DATA           DIVISION.
000010 LINKAGE       SECTION.
000011 PROCEDURE     DIVISION.
000012 END METHOD     M5527.
000013 END OBJECT.
```



```

000014 END CLASS          C5527.
[P5527.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.        P5527.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     CLASS C5527.
000007 DATA              DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 WOBR            OBJECT REFERENCE C5527.
000010 01 WMET           PIC X(8).
000011 PROCEDURE         DIVISION.
000012     MOVE "M5527" TO WMET
000013     INVOKE WOBR WMET
000014 END PROGRAM        P5527.

```

P5527.cob 13: JMN5527I-S If identifier 'WMET' is specified in an INVOKE statement, the identifier specified immediately after INVOKE must be an identifier specified untyped OBJECT REFERENCE clause. The INVOKE statement is ignored.

### Explanation

An 'untyped OBJECT REFERENCE clause' is a USAGE OBJECT REFERENCE clause in which none of the following phrases is specified:

- SELF
- FACTORY OF SELF
- CLASS OF SELF
- class-name
- class-name ONLY
- FACTORY OF class-name
- FACTORY OF class-name ONLY

### JMN5528I-S

**A pointer data item cannot be specified for the RETURNING phrase in a PROCEDURE DIVISION of a method definition.**

### Example

```

[C5528.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5528.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE         DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.         METHOD01.
000008 DATA              DIVISION.
000009 LINKAGE            SECTION.
000010 01 LKD1           POINTER.
000011 PROCEDURE         DIVISION
000012     RETURNING LKD1.
000013 END METHOD METHOD01.
000014 END OBJECT.
000015 END CLASS          C5528.

```

C5528.cob 12: JMN5528I-S A pointer data item cannot be specified for the RETURNING phrase in a PROCEDURE DIVISION of a method definition.

## JMN5530I-S

**Predefined object identifier SUPER can be used to invoke a method in the INVOKE statement or in-line method invocation, or as the object in an object property. The @1@ statement is ignored.**

### Parameter Explanation

@1@ : Statement that refers to predefined object identifier SUPER.

### Example

```
[C5530.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5530 INHERITS FJBASE.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     CLASS FJBASE.
000007 IDENTIFICATION DIVISION.
000008 OBJECT.
000009 ENVIRONMENT      DIVISION.
000010 DATA             DIVISION.
000011 WORKING-STORAGE SECTION.
000012 PROCEDURE        DIVISION.
000013 IDENTIFICATION DIVISION.
000014 METHOD-ID.        M5530.
000015 ENVIRONMENT      DIVISION.
000016 DATA             DIVISION.
000017 WORKING-STORAGE SECTION.
000018 01 WOBJ          OBJECT REFERENCE.
000019 PROCEDURE        DIVISION.
000020     SET WOBJ TO SUPER.
000021 END METHOD        M5530.
000022 END OBJECT.
000023 END CLASS        C5530.
```

C5530.cob 20: JMN5530I-S Predefined object identifier SUPER can be used to invoke a method in the INVOKE statement or in-line method invocation, or as the object in an object property. The SET statement is ignored.

## JMN5531I-S

**Predefined object identifier @1@ cannot be used in a program definition. Untyped object reference data item 'UNTYPED-OBJECT' is assumed.**

### Parameter Explanation

@1@ : SELF or SUPER.

### Example

```
[P5531.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID       P5531.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006 PROCEDURE        DIVISION.
000007     INVOKE SELF "NO-METHOD".
000008 END PROGRAM       P5531.
```

P5531.cob 7: JMN5531I-S Predefined object identifier SELF cannot be used in a program definition. Untyped object reference data item 'UNTYPED-OBJECT' is assumed.

## JMN5532I-S

**Predefined object identifier SUPER must specify a class-name in the class which inherits multiple classes. Untyped object reference data item 'UNTYPED-OBJECT' is assumed.**

#### Example

```
[C5532A.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5532A.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE          DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.         M5532.
000008 ENVIRONMENT       DIVISION.
000009 DATA              DIVISION.
000010 LINKAGE           SECTION.
000011 PROCEDURE          DIVISION.
000012 END METHOD         M5532.
000013 END OBJECT.
000014 END CLASS         C5532A.
[C5532B.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5532B.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE          DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.         M5532.
000008 ENVIRONMENT       DIVISION.
000009 DATA              DIVISION.
000010 LINKAGE           SECTION.
000011 PROCEDURE          DIVISION.
000012 END METHOD         M5532.
000013 END OBJECT.
000014 END CLASS         C5532B.
[C5532.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5532 INHERITS C5532A C5532B.
000003 ENVIRONMENT       DIVISION.
000004 CONFIGURATION     SECTION.
000005 REPOSITORY.
000006     CLASS C5532A
000007     CLASS C5532B.
000008 IDENTIFICATION DIVISION.
000009 OBJECT.
000010 PROCEDURE          DIVISION.
000011 IDENTIFICATION DIVISION.
000012 METHOD-ID.         M5532 OVERRIDE.
000013 ENVIRONMENT       DIVISION.
000014 DATA              DIVISION.
000015 LINKAGE           SECTION.
000016 PROCEDURE          DIVISION.
000017     INVOKE SUPER "M5532"
000018 END METHOD         M5532.
000019 END OBJECT.
000020 END CLASS         C5532.
```

C5532.cob 17: JMN5532I-S Predefined object identifier SUPER must specify a class-name in the class which inherits multiple classes. Untyped object reference data item 'UNTYPED-OBJECT' is assumed.

#### Explanation

Two or more class-names can be specified for the INHERITS phrase of the CLASS-ID paragraph. When the predefined object identifier SUPER is used in such a class, "class-name OF SUPER" should be written, and the parent class should be indicated.

## JMN5533I-S

**Predefined object identifier SUPER cannot be used in a class that does not inherit any class. Untyped object reference data item 'UNTYPED-OBJECT' is assumed.**

### Example

```
[C5533.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5533.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE         DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.        M5533.
000008 DATA             DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 OBJFU          USAGE OBJECT REFERENCE CLASS OF SELF.
000011 PROCEDURE         DIVISION.
000012     INVOKE SUPER "NEW" RETURNING OBJFU.
000013 END METHOD        M5533.
000014 END OBJECT.
000015 END CLASS        C5533.
```

C5533.cob 12: JMN5533I-S Predefined object identifier SUPER cannot be used in a class that does not inherit any class. Untyped object reference data item 'UNTYPED-OBJECT' is assumed.

### Explanation

The predefined object identifier SUPER corresponds to the parent class, so it can be used only in the class that inherits from other classes.

## JMN5534I-S

**Predefined object identifier EXCEPTION-OBJECT can only be used in DECLARATIVES that correspond to the USE statement with class-name. Untyped object reference data item 'UNTYPED-OBJECT' is assumed.**

### Example

```
[P5534.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID       P5534.
000003 ENVIRONMENT      DIVISION.
000004 PROCEDURE        DIVISION.
000005     INVOKE EXCEPTION-OBJECT "NO-METHOD"
000006 END PROGRAM       P5534.
```

P5534.cob 5: JMN5534I-S Predefined object identifier EXCEPTION-OBJECT can only be used in DECLARATIVES that correspond to the USE statement with class-name. Untyped object reference data item 'UNTYPED-OBJECT' is assumed.

## JMN5535I-S

**@2@ cannot be specified in a @1@ statement. The @1@ statement is ignored.**

### Parameter Explanation

@1@ : SEARCH

@2@ : Predefined object identifier SELF, predefined object identifier SUPER, predefined object identifier EXCEPTION-OBJECT, class-name, in-line method invocation, identifier with object modifier or predefined object identifier NULL.

## Example

```
[C5535.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5535.
000003 ENVIRONMENT      DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA              DIVISION.
000007 WORKING-STORAGE SECTION.
000008 PROCEDURE         DIVISION.
000009 IDENTIFICATION DIVISION.
000010 METHOD-ID.         M5535.
000011 ENVIRONMENT      DIVISION.
000012 DATA              DIVISION.
000013 WORKING-STORAGE SECTION.
000014 01 WGRP.
000015 02 WOCC           OCCURS 10 INDEXED BY IX1.
000016 03                PIC X.
000017 PROCEDURE         DIVISION.
000018     SEARCH SELF VARYING IX1
000019     WHEN WOCC(IX1) = "X"
000020     DISPLAY "FIND"
000021     END-SEARCH
000022 END METHOD          M5535.
000023 END OBJECT.
000024 END CLASS          C5535.
```

C5535.cob 18: JMN5535I-S Predefined object identifier SELF cannot be specified in a SEARCH statement. The SEARCH statement is ignored.

## JMN5536I-S

**A class-name that is specified in predefined object identifier SUPER must be specified in an INHERITS clause. Untyped object reference data item 'UNTYPED-OBJECT' is assumed.**

## Example

```
[C5536A.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5536A.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 DATA              DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE         DIVISION.
000008 END OBJECT.
000009 END CLASS          C5536A.
[C5536B.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5536B.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 DATA              DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE         DIVISION.
000008 END OBJECT.
000009 END CLASS          C5536B.
[C5536.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5536 INHERITS FJBASE C5536A.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
```

```

000006 CLASS C5536A
000007 CLASS C5536B
000008 CLASS FJBASE.
000009 IDENTIFICATION DIVISION.
000010 OBJECT.
000011 PROCEDURE DIVISION.
000012 IDENTIFICATION DIVISION.
000013 METHOD-ID. M5536.
000014 ENVIRONMENT DIVISION.
000015 DATA DIVISION.
000016 LINKAGE SECTION.
000017 PROCEDURE DIVISION.
000018 INVOKE C5536B OF SUPER "M5536"
000019 END METHOD M5536.
000020 END OBJECT.
000021 END CLASS C5536.

```

C5536.cob 18: JMN5536I-S A class-name that is specified in predefined object identifier SUPER must be specified in an INHERITS clause. Untyped object reference data item 'UNTYPED-OBJECT' is assumed.

### JMN5537I-S

**The PROCEDURE DIVISION of a get property or set property method is missing a required parameter. An alphanumeric item of 1 character is assumed.**

#### Example

```

[C5537.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C5537.
000003 ENVIRONMENT DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 WK1 PIC X(8).
000009 PROCEDURE DIVISION.
000010 IDENTIFICATION DIVISION.
000011 METHOD-ID. SET PROPERTY PR5537.
000012 DATA DIVISION.
000013 PROCEDURE DIVISION.
000014 MOVE SPACE TO WK1.
000015 EXIT METHOD.
000016 END METHOD.
000017 END OBJECT.
000018 END CLASS C5537.

```

C5537.cob 11: JMN5537I-S The PROCEDURE DIVISION of a get property or set property method is missing a required parameter. An alphanumeric item of 1 character is assumed.

#### Explanation

Only the RETURNING phrase is specified in the procedure division header of the get property method definition (method definition to specify the GET phrase for the METHOD-ID paragraph).

A USING phrase with only one parameter is specified in the procedure division header of the set property method definition (method definition to specify the SET phrase for the METHOD-ID paragraph).

### JMN5538I-S

**Only one @2@ parameter can be specified in a PROCEDURE DIVISION for a method definition with a @1@ phrase.**

## Parameter Explanation

@1@ : GET or SET.

@2@ : USING or RETURNING.

## Example

```
[C5538.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5538.
000003 ENVIRONMENT      DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA              DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 W5538           PIC S9(4) COMP-5.
000009 PROCEDURE         DIVISION.
000010 IDENTIFICATION DIVISION.
000011 METHOD-ID.        SET PROPERTY PR5538.
000012 DATA              DIVISION.
000013 LINKAGE           SECTION.
000014 01 LK1            PIC S9(4) COMP-5.
000015 01 LK2            PIC S9(4) COMP-5.
000016 PROCEDURE         DIVISION USING LK1
000017                      RETURNING LK2.
000018     MOVE LK1 TO W5538.
000019     EXIT METHOD.
000020 END METHOD.
000021 END OBJECT.
000022 END CLASS        C5538.
```

C5538.cob 11: JMN5538I-S Only one USING parameter can be specified in a PROCEDURE DIVISION for a method definition with a SET phrase.

## Explanation

Only the RETURNING phrase is specified in the procedure division header of the get property method definition (method definition to specify the GET phrase for the METHOD-ID paragraph).

A USING phrase with only one parameter is specified in the procedure division header of the set property method definition (method definition to specify the SET phrase for the METHOD-ID paragraph).

## JMN5539I-S

**The identifier used to invoke a method in an in-line method invocation must be an object reference identifier. The in-line method invocation is ignored.**

## Example

```
[C5539.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5539.
000003 ENVIRONMENT      DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 DATA              DIVISION.
000007 WORKING-STORAGE SECTION.
000008 01 PR5539           PIC S9(4) COMP-5 PROPERTY.
000009 PROCEDURE         DIVISION.
000010 IDENTIFICATION DIVISION.
000011 METHOD-ID.        M5539.
000012 DATA              DIVISION.
000013 LINKAGE           SECTION.
000014 01 LK1            PIC X(8).
```

```

000015 PROCEDURE      DIVISION RETURNING LK1.
000016      MOVE PR5539 OF SELF :: "M5539" TO LK1.
000017      EXIT METHOD.
000018 END METHOD      M5539.
000019 END OBJECT.
000020 END CLASS      C5539.

```

C5539.cob 16: JMN5539I-S The identifier used to invoke a method in an in-line method invocation must be an object reference identifier. The in-line method invocation is ignored.

### Explanation

The object with the target procedure (method) is identified by the object identifier specified just before the invocation operator (a pair of adjacent colon characters '::').

## JMN5540I-S

### An object modifier cannot be specified for predefined object identifier SUPER or NULL.

#### Example

```

[C5540A.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5540A.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE      DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.      M5540.
000008 PROCEDURE      DIVISION.
000009 END METHOD      M5540.
000010 END OBJECT.
000011 END CLASS      C5540A.
[C5540.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5540 INHERITS FJBASE.
000003 ENVIRONMENT    DIVISION.
000004 CONFIGURATION  SECTION.
000005 REPOSITORY.
000006      CLASS C5540A
000007      CLASS FJBASE.
000008 IDENTIFICATION DIVISION.
000009 OBJECT.
000010 DATA           DIVISION.
000011 WORKING-STORAGE SECTION.
000012 PROCEDURE      DIVISION.
000013 IDENTIFICATION DIVISION.
000014 METHOD-ID.      M5540.
000015 DATA           DIVISION.
000016 WORKING-STORAGE SECTION.
000017 01 OBJ          OBJECT REFERENCE.
000018 PROCEDURE      DIVISION.
000019      SET OBJ TO SUPER AS C5540A.
000020 END METHOD      M5540.
000021 END OBJECT.
000022 END CLASS      C5540.

```

C5540.cob 19: JMN5540I-S An object modifier cannot be specified for predefined object identifier SUPER or NULL.

### Explanation

An object modifier specifies that the identifier type in front of AS is considered to be a type specified after AS.

Predefined object identifiers SUPER and NULL cannot be considered another type.



## JMN5541I-S

**An object modifier must be a specified class-name or universal. Universal is assumed.**

### Example

```
[C5541.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5541.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     CLASS FJBASE.
000007 IDENTIFICATION DIVISION.
000008 OBJECT.
000009 PROCEDURE        DIVISION.
000010 IDENTIFICATION DIVISION.
000011 METHOD-ID.       M5541.
000012 DATA            DIVISION.
000013 WORKING-STORAGE SECTION.
000014 01 WOBR          OBJECT REFERENCE FJBASE.
000015 01 WCLS          PIC X(6) VALUE "FJBASE".
000016 PROCEDURE        DIVISION.
000017     SET WOBR TO SELF AS WCLS
000018 END METHOD         M5541.
000019 END OBJECT.
000020 END CLASS         C5541.
```

C5541.cob 17: JMN5541I-S An object modifier must be a specified class-name or universal. Universal is assumed.

### Explanation

The class-name or UNIVERSAL must be specified after AS of the object modifier.

## JMN5542I-S

**@1@ cannot be used to invoke a method in an in-line method invocation or as the object in an object property.**

### Parameter Explanation

@1@ : predefined object identifier NULL.

### Example

```
[C5542.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5542 INHERITS FJBASE.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     CLASS FJBASE.
000007 IDENTIFICATION DIVISION.
000008 OBJECT.
000009 PROCEDURE        DIVISION.
000010 IDENTIFICATION DIVISION.
000011 METHOD-ID.       M5542.
000012 DATA            DIVISION.
000013 WORKING-STORAGE SECTION.
000014 01 WRT            PIC X(1).
000015 LINKAGE          SECTION.
000016 01 LK1           OBJECT REFERENCE FJBASE.
000017 01 LK2           PIC X(1).
000018 PROCEDURE        DIVISION
000019     USING          LK1
```

```

000020             RETURNING LK2.
000021     MOVE SELF  :: "M5542" (NULL :: "NEW")
000022             TO WRT.
000023 END METHOD      M5542.
000024 END OBJECT.
000025 END CLASS     C5542.

```

C5542.cob 21: JMN5542I-S Predefined object identifier NULL cannot be used to invoke a method in an in-line method invocation or as the object in an object property.

## JMN5543I-S

**The identifier in @1@ must be the object reference that refers to the class specified in the REPOSITORY paragraph.**

### Parameter Explanation

@1@ : In-line method invocation or object property.

### Example

```

[C5543.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.         C5543.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE        DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.       M5543.
000008 DATA           DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WOBR         USAGE OBJECT REFERENCE.
000011 01 WDA1        PIC X(20).
000012 PROCEDURE        DIVISION.
000013     MOVE WOBR  :: "GETNAME" TO WDA1.
000014 END METHOD        M5543.
000015 END OBJECT.
000016 END CLASS       C5543.

```

C5543.cob 13: JMN5543I-S The identifier in in-line method invocation must be the object reference that refers to the class specified in the REPOSITORY paragraph.

## JMN5544I-S

**Only a PROCEDURE DIVISION header can be specified in the PROCEDURE DIVISION of @1@.**

### Parameter Explanation

@1@ : Method prototype definition.

### Example

```

[C5544.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.         C5544.
000003 ENVIRONMENT      DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 PROCEDURE        DIVISION.
000007 IDENTIFICATION DIVISION.
000008 METHOD-ID.       M5544 PROTOTYPE.
000009 DATA           DIVISION.
000010 LINKAGE          SECTION.
000011 01 LK1         PIC X(4).
000012 PROCEDURE        DIVISION RETURNING LK1.

```

```

000013     EXIT METHOD.
000014 END METHOD      M5544.
000015 END OBJECT.
000016 END CLASS     C5544.

```

C5544.cob 12: JMN5544I-S Only a PROCEDURE DIVISION header can be specified in the PROCEDURE DIVISION of method prototype definition.

## JMN5545I-S

**The USE FOR DEAD-LOCK statement can only be specified in a program definition.**

### Example

```

[C5545.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5545.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE      DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.     M5545.
000008 PROCEDURE      DIVISION.
000009 DECLARATIVES.
000010 DEAD-LOCK-ERR SECTION.
000011     USE FOR DEAD-LOCK
000012     DISPLAY "***** Result NG *****" .
000013 END DECLARATIVES.
000014 END METHOD      M5545.
000015 END OBJECT.
000016 END CLASS     C5545.

```

C5545.cob 11: JMN5545I-S The USE FOR DEAD-LOCK statement can only be specified in a program definition.

## JMN5546I-S

**The interface for method '@1@' must conform to that of the overridden method. Method '@1@' is ignored.**

### Parameter Explanation

@1@ : Method name which causes error.

### Example

```

[C5546A.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5546A.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE      DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.     M5546.
000008 DATA          DIVISION.
000009 LINKAGE         SECTION.
000010 01 LK1         PIC X(2).
000011 PROCEDURE      DIVISION RETURNING LK1.
000012 END METHOD      M5546.
000013 END OBJECT.
000014 END CLASS     C5546A.
[C5546.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5546 INHERITS C5546A.
000003 ENVIRONMENT   DIVISION.
000004 CONFIGURATION  SECTION.

```

```

000005 REPOSITORY.
000006     CLASS C5546A.
000007 IDENTIFICATION DIVISION.
000008 OBJECT.
000009 PROCEDURE     DIVISION.
000010 IDENTIFICATION DIVISION.
000011 METHOD-ID.     M5546 OVERRIDE.
000012 DATA         DIVISION.
000013 LINKAGE       SECTION.
000014 01 LK1        PIC X(2).
000015 PROCEDURE     DIVISION USING LK1.
000016 END METHOD      M5546.
000017 END OBJECT.
000018 END CLASS     C5546.

```

C5546.cob 11: JMN5546I-S The interface for method 'M5546' must conform to that of the overridden method. Method 'M5546' is ignored.

### Explanation

The procedure division header of the method definition that specifies the OVERRIDE phrase must define the same parameter interface as the overwritten method of the parent class.

## JMN5547I-S

**There is no PROCEDURE DIVISION header in @1@. A PROCEDURE DIVISION header is assumed.**

### Parameter Explanation

@1@ : Factory definition or object definition.

### Example

```

[C5547.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.         C5547.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 IDENTIFICATION DIVISION.
000006 METHOD-ID.         M5547.
000007 DATA           DIVISION.
000008 LINKAGE         SECTION.
000009 01 LK1          PIC X(10).
000010 PROCEDURE     DIVISION RETURNING LK1.
000011 END METHOD      M5547.
000012 END OBJECT.
000013 END CLASS     C5547.

```

C5547.cob 6: JMN5547I-S There is no PROCEDURE DIVISION header in object definition. A PROCEDURE DIVISION header is assumed.

### Explanation

In a class definition, method definitions follow a PROCEDURE DIVISION header.

## JMN5548I-S

**The class-name specified in the RAISING phrase of the PROCEDURE DIVISION header must have the same specifier as defined in the prototype method. It is accepted as written.**

### Example

```

[C5548.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.         C5548 INHERITS FJBASE.

```

```

000003 ENVIRONMENT    DIVISION.
000004 CONFIGURATION  SECTION.
000005 REPOSITORY.
000006     CLASS FJBASE.
000007 IDENTIFICATION  DIVISION.
000008 OBJECT.
000009 PROCEDURE      DIVISION.
000010 IDENTIFICATION  DIVISION.
000011 METHOD-ID.      M5548 PROTOTYPE.
000012 DATA          DIVISION.
000013 PROCEDURE      DIVISION
000014             RAISING FJBASE.
000015 END METHOD      M5548.
000016 END OBJECT.
000017 END CLASS      C5548.
[M5548.cob]
000001 IDENTIFICATION  DIVISION.
000002 METHOD-ID.      M5548 OF C5548.
000003 ENVIRONMENT    DIVISION.
000004 CONFIGURATION  SECTION.
000005 REPOSITORY.
000006     CLASS C5548.
000007 DATA          DIVISION.
000008 PROCEDURE      DIVISION
000009             RAISING C5548.
000010 END METHOD      M5548.

```

M5548.cob 2: JMN5548I-S The class-name specified in the RAISING phrase of the PROCEDURE DIVISION header must have the same specifier as defined in the prototype method. It is accepted as written.

### Explanation

The class-name specified for the RAISING phrase of the procedure division header of a separate method definition should be the same as the class-name specified for the RAISING phrase of the procedure division header of the method prototype definition (definition that specifies the PROTOTYPE phrase for the METHOD-ID paragraph) corresponding to this method definition.

### JMN5549I-S

---

**Only the method definition can be specified in the PROCEDURE DIVISION of @1@.**

#### Parameter Explanation

@1@ : Factory definition or object definition.

#### Example

```

[C5549.cob]
000001 IDENTIFICATION  DIVISION.
000002 CLASS-ID.      C5549.
000003 IDENTIFICATION  DIVISION.
000004 OBJECT.
000005 PROCEDURE      DIVISION.
000006     DISPLAY "OBJECT DEFINITION".
000007 END OBJECT.
000008 END CLASS      C5549.

```

C5549.cob 5: JMN5549I-S Only the method definition can be specified in the PROCEDURE DIVISION of object definition.

### JMN5550I-S

---

**'@2@' specified in a @1@ statement cannot be specified in a USING phrase. The @1@ statement is ignored.**

## Parameter Explanation

@1@ : INVOKE or CALL.

@2@ : Word that causes the error specified for @1@.

## Example

```
[P5550.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5550.
000003 ENVIRONMENT     DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA             DIVISION.
000009 FILE              SECTION.
000010 FD SQFILE1.
000011 01 SQF1REC.
000012 02              PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 01 WOBR         OBJECT REFERENCE.
000015 PROCEDURE      DIVISION.
000016     INVOKE WOBR "M5550" USING SQFILE1.
000017 END PROGRAM    P5550.
```

P5550.cob 16: JMN5550I-S 'SQFILE1' specified in a INVOKE statement cannot be specified in a USING phrase. The INVOKE statement is ignored.

## JMN5551I-S

**A literal, predefined object identifier, or class-name cannot be specified for the BY REFERENCE phrase of the @1@ statement. The @1@ statement is ignored.**

## Parameter Explanation

@1@ : INVOKE or CALL.

## Example

```
[P5551.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5551.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     CLASS FJBASE.
000007 DATA             DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 WOBR         OBJECT REFERENCE.
000010 PROCEDURE      DIVISION.
000011     INVOKE WOBR "M5551" USING BY REFERENCE 123.
000012 END PROGRAM    P5551.
```

P5551.cob 11: JMN5551I-S A literal, predefined object identifier, or class-name cannot be specified for the BY REFERENCE phrase of the INVOKE statement. The INVOKE statement is ignored.

## JMN5552I-S

**A conditional phrase cannot be specified in the @1@ statement. The @1@ statement is ignored.**

## Parameter Explanation

@1@ : INVOKE

## Example

```
[P5552.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5552.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WOBR          OBJECT REFERENCE.
000006 PROCEDURE        DIVISION.
000007     INVOKE WOBR  "M5552"
000008         ON EXCEPTION DISPLAY "NG".
000009     INVOKE WOBR  "M5552"
000010         ON OVERFLOW DISPLAY "NG".
000011 END PROGRAM      P5552.
```

P5552.cob 7: JMN5552I-S A conditional phrase cannot be specified in the INVOKE statement. The INVOKE statement is ignored.

P5552.cob 9: JMN5552I-S A conditional phrase cannot be specified in the INVOKE statement. The INVOKE statement is ignored.

## Explanation

In this example, the conditional phrases are ON OVERFLOW and ON EXCEPTION.

## JMN5553I-S

---

**The ordinal position of the USING phrase for the @1@ statement is invalid. The @1@ statement is ignored.**

### Parameter Explanation

@1@ : INVOKE.

## Example

```
[P5553.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5553.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WOBR          OBJECT REFERENCE.
000006 01 WPR1          PIC X(08).
000007 01 WRT           PIC X(08).
000008 PROCEDURE        DIVISION.
000009     INVOKE WOBR  "M5553" RETURNING WRT
000010         USING   WPR.
000011 END PROGRAM      P5553.
```

P5553.cob 10: JMN5553I-S The ordinal position of the USING phrase for the INVOKE statement is invalid. The INVOKE statement is ignored.

## Explanation

The USING phrase cannot be specified after the RETURNING phrase.

## JMN5555I-S ([Win32])

---

**The RETURNING phrase identifier for the @1@ statement must be defined in a file, WORKING-STORAGE, or LINKAGE SECTION. The @1@ statement is ignored.**

### Parameter Explanation

@1@ : INVOKE / CALL

## Example

```
[P5555.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5555.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WOBR          OBJECT REFERENCE.
000006 CONSTANT         SECTION.
000007 01 CNST-DATA    PIC X(10) VALUE "XXX".
000008 PROCEDURE       DIVISION.
000009     INVOKE WOBR "M5555" RETURNING CNST-DATA.
000010 END PROGRAM     P5555.
```

P5555.cob 9: JMN5555I-S The RETURNING phrase identifier for the INVOKE statement must be defined in a file, WORKING-STORAGE, or LINKAGE SECTION. The INVOKE statement is ignored.

## JMN5555I-S (**Winx64**)

---

**The RETURNING phrase identifier for the @1@ statement must be defined in the FILE, WORKING-STORAGE, LOCAL-STORAGE or LINKAGE SECTION. The @1@ statement is ignored.**

### Parameter Explanation

@1@ : INVOKE / CALL

## Example

```
[P5555.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5555.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WOBR          OBJECT REFERENCE.
000006 CONSTANT         SECTION.
000007 01 CNST-DATA    PIC X(10) VALUE "XXX".
000008 PROCEDURE       DIVISION.
000009     INVOKE WOBR "M5555" RETURNING CNST-DATA.
000010 END PROGRAM     P5555.
```

P5555.cob 9: JMN5555I-S The RETURNING phrase identifier for the INVOKE statement must be defined in the FILE, WORKING-STORAGE, LOCAL-STORAGE or LINKAGE SECTION. The INVOKE statement is ignored.

## JMN5556I-S

---

**The method result for the identifier in the INVOKE statement must be the object identifier.**

## Example

```
[C5556.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.        C5556.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE         DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.        M5556A.
000008 ENVIRONMENT      DIVISION.
000009 DATA              DIVISION.
000010 LINKAGE           SECTION.
000011 01 LK1           OBJECT REFERENCE C5556.
000012 PROCEDURE       DIVISION RETURNING LK1.
000013 END METHOD        M5556A.
000014 IDENTIFICATION DIVISION.
```



```

000015 METHOD-ID.      M5556B.
000016 ENVIRONMENT   DIVISION.
000017 DATA         DIVISION.
000018 LINKAGE       SECTION.
000019 01 LK1        PIC X(10).
000020 PROCEDURE      DIVISION RETURNING LK1.
000021 END METHOD     M5556B.
000022 END OBJECT.
000023 END CLASS     C5556.
[P5556.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P5556.
000003 ENVIRONMENT   DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006     CLASS C5556.
000007 DATA         DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 WOBK        OBJECT REFERENCE C5556.
000010 PROCEDURE      DIVISION.
000011*
000012     INVOKE WOBK::"M5556A" "M5556B".
000013*
000014     INVOKE WOBK::"M5556B" "M5556A".
000015 END PROGRAM    P5556.

```

P5556.cob 14: JMN5556I-S The method result for the identifier in the INVOKE statement must be the object identifier.

### Explanation

This diagnostic message is output when an in-line method invocation does not return an object reference or such the object property is specified for an identifier just after INVOKE.

## JMN5557I-S

**The interface for the separate method definition must conform to that for the method prototype.**

### Example

```

[C5557.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5557.
000003 ENVIRONMENT   DIVISION.
000004 IDENTIFICATION DIVISION.
000005 OBJECT.
000006 PROCEDURE      DIVISION.
000007 IDENTIFICATION DIVISION.
000008 METHOD-ID.       M5557 PROTOTYPE.
000009 DATA         DIVISION.
000010 LINKAGE       SECTION.
000011 01 LK1        PIC 9(4).
000012 PROCEDURE      DIVISION USING LK1.
000013 END METHOD     M5557.
000014 END OBJECT.
000015 END CLASS     C5557.
[M5557.cob]
000001 IDENTIFICATION DIVISION.
000002 METHOD-ID.      M5557 OF C5557.
000003 ENVIRONMENT   DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006     CLASS C5557.
000007 DATA         DIVISION.
000008 PROCEDURE      DIVISION.

```

```
000009     DISPLAY "NOT CONFORM" .
000010 END METHOD      M5557 .
```

M5557.cob 2: JMN5557I-S The interface for the separate method definition must conform to that for the method prototype.

### Explanation

The following should match in the procedure division headers of the separate method definition and the method prototype definition corresponding to it:

- Presence of USING phrase and RETURNING phrase
- Number of USING parameters, and attribute of each parameter at the corresponding position in order of the parameter specified for USING phrase

### JMN5559I-S

**The RETURNING phrase cannot be specified in the program definition PROCEDURE DIVISION containing an ENTRY statement. The RETURNING phrase is ignored.**

### Example

```
[P5559.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5559.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 LINKAGE         SECTION.
000006 01 LK1          PIC X(8).
000007 01 LK2          PIC S9(8) BINARY.
000008 PROCEDURE      DIVISION
000009                 RETURNING LK1.
000010     DISPLAY "MAIN ENTRY"
000011     EXIT PROGRAM.
000012     ENTRY "P5559SUB".
000013     DISPLAY "SECONDARY ENTRY" .
000014     EXIT PROGRAM.
000015 END PROGRAM    P5559.
```

P5559.cob 8: JMN5559I-S The RETURNING phrase cannot be specified in the program definition PROCEDURE DIVISION containing an ENTRY statement. The RETURNING phrase is ignored.

### JMN5560I-S

**Method-name '@2@' specified in @1@ is undefined in the parent class or the class that is inherited in the parent class. @1@ is ignored.**

### Parameter Explanation

@1@ : INVOKE statement or in-line method invocation

@2@ : Method name that caused the error.

### Example

```
[C5560.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.        C5560 INHERITS FJBASE.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 REPOSITORY.
000006     CLASS FJBASE.
000007 IDENTIFICATION DIVISION.
000008 OBJECT.
000009 PROCEDURE DIVISION.
000010 IDENTIFICATION DIVISION.
```

```

000011 METHOD-ID.          M5560.
000012 DATA              DIVISION.
000013 WORKING-STORAGE SECTION.
000014 01 WX              PIC X(4).
000015 PROCEDURE          DIVISION.
000016     INVOKE SUPER "M5560".
000017 END METHOD          M5560.
000018 END OBJECT.
000019 END CLASS          C5560.

```

C5560.cob 16: JMN5560I-S Method-name 'M5560' specified in INVOKE statement is undefined in the parent class or the class that is inherited in the parent class. INVOKE statement is ignored.

### Explanation

The predefined object identifier SUPER indicates the parent class. When the predefined object identifier SUPER is used for the method invoking, the invoked method should exist in the ancestor class (the class of the parent class or the class that the parent class inherits from).

### JMN5561I-S

**The method-name specified in an in-line method invocation must be a nonnumeric literal or a national character literal. The in-line method invocation is ignored.**

#### Example

```

[C5561.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.        C5561.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.        M5561.
000008 DATA            DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WMETNM        PIC X(8).
000011 01 WX            PIC X(4).
000012 PROCEDURE        DIVISION.
000013     MOVE SELF  :: WMETNM TO WX.
000014 END METHOD          M5561.
000015 END OBJECT.
000016 END CLASS          C5561.

```

C5561.cob 13: JMN5561I-S The method-name specified in an in-line method invocation must be a nonnumeric literal or a national character literal. The in-line method invocation is ignored.

### JMN5562I-S

**@1@ cannot be specified as an argument of @2@.**

#### Parameter Explanation

@1@ : In-line method invocation, object property, identifier with object modifier, arithmetic expression or function name that causes the error.

@2@ : In-line method invocation, FUNCTION ADDR, FUNCTION LENG, or FUNCTION LENGTH

#### Example

```

[C5562.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.        C5562.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.

```

```

000005 PROCEDURE DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.      M5562.
000008 DATA          DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WX          PIC X(4).
000011 LINKAGE        SECTION.
000012 01 LX1         PIC X(4).
000013 01 LX2         PIC X(4).
000014 PROCEDURE     DIVISION
000015                USING      LX1
000016                RETURNING LX2.
000017     MOVE SELF :: "M5562" (SELF :: "M5562"(WX)) TO WX.
000018 END METHOD      M5562.
000019 END OBJECT.
000020 END CLASS      C5562.

```

C5562.cob 17: JMN5562I-S In-line method invocation cannot be specified as an argument of in-line method invocation.

## JMN5563I-S

### @1@ cannot be specified as the @2@ identifier.

#### Parameter Explanation

@1@ : In-line method invocation or object property.

@2@ : ADDRESS OF or LENGTH OF.

#### Example

```

[C5563.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5563.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.      M5563.
000008 DATA          DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WPX          POINTER.
000011 LINKAGE        SECTION.
000012 01 LX1         PIC X(4).
000013 01 LX2         PIC X(4).
000014 PROCEDURE     DIVISION
000015                USING LX1
000016                RETURNING LX2.
000017     SET WPX TO ADDRESS OF SELF :: "M5563"(LX1).
000018 END METHOD      M5563.
000019 END OBJECT.
000020 END CLASS      C5563.

```

C5563.cob 17: JMN5563I-S In-line method invocation cannot be specified as the ADDRESS OF identifier.

## JMN5564I-S

### Property-name '@1@' is @2@.

#### Parameter Explanation

@1@ : Property name that causes the error.

@2@ : undefined or multi-defined.

## Example

```
[C5564.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5564.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.         M5564.
000008 DATA             DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WX             PIC X(4).
000011 LINKAGE           SECTION.
000012 01 LX1            PIC X(4).
000013 01 LX2            PIC X(4).
000014 PROCEDURE        DIVISION
000015                     USING LX1
000016                     RETURNING LX2.
000017     MOVE PR5564 OF SELF TO WX.
000018 END METHOD         M5564.
000019 END OBJECT.
000020 END CLASS         C5564.
```

C5564.cob 17: JMN5564I-S Property-name 'PR5564' is undefined.

## JMN5565I-S ([Win32])

**The data item for the argument of the in-line method invocation must be defined in the FILE SECTION, WORKING-STORAGE SECTION or LINKAGE SECTION.**

## Example

```
[C5565.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5565.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.         M5565.
000008 DATA             DIVISION.
000009 LINKAGE           SECTION.
000010 01 LK1            PIC X(6).
000011 01 LK2            PIC X(8).
000012 PROCEDURE        DIVISION USING LK1
000013                     RETURNING LK2.
000014 END METHOD         M5565.
000015 END OBJECT.
000016 END CLASS         C5565.
```

```
[P5565.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.       P5565.
000003 ENVIRONMENT        DIVISION.
000004 CONFIGURATION      SECTION.
000005 REPOSITORY.
000006     CLASS C5565.
000007 INPUT-OUTPUT        SECTION.
000008 FILE-CONTROL.
000009     SELECT REPFIL ASSIGN TO SYS001.
000010 DATA                DIVISION.
000011 FILE                  SECTION.
```

```

000012 FD REFFILE REPORT IS REP1.
000013 WORKING-STORAGE SECTION.
000014 01 YMMDD      PIC X(6).
000015 01 YYYYMMDD   PIC X(8).
000016 01 WOBR      OBJECT REFERENCE C5565.
000017 REPORT       SECTION.
000018 RD REP1 PAGE 66
000019             FIRST DETAIL 6.
000020 01 PH-ITEM TYPE PH.
000021 02 LINE 2.
000022 03 DATA1    COLUMN 50 PIC X(6) SOURCE YMMDD.
000023 PROCEDURE    DIVISION.
000024     MOVE WOBR  :: "M5565"(DATA1) TO YYYYMMDD
000025 END PROGRAM   P5565.

```

P5565.cob 24: JMN2691I-S 'DATA1' in the REPORT SECTION cannot be referred in the PROCEDURE DIVISION.

P5565.cob 24: JMN5565I-S The data item for the argument of the in-line method invocation must be defined in the FILE SECTION, WORKING-STORAGE SECTION or LINKAGE SECTION.

### JMN5565I-S (**Winx64**)

**The data item for the argument of the in-line method invocation must be defined in the FILE SECTION, WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION or LINKAGE SECTION.**

#### Example

```

[C5565.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5565.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE      DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.     M5565.
000008 DATA         DIVISION.
000009 LINKAGE        SECTION.
000010 01 LK1         PIC X(6).
000011 01 LK2         PIC X(8).
000012 PROCEDURE    DIVISION USING LK1
000013             RETURNING LK2.
000014 END METHOD      M5565.
000015 END OBJECT.
000016 END CLASS     C5565.

```

```

[P5565.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P5565.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     CLASS C5565.
000007 INPUT-OUTPUT    SECTION.
000008 FILE-CONTROL.
000009     SELECT REFFILE ASSIGN TO SYS001.
000010 DATA            DIVISION.
000011 FILE             SECTION.
000012 FD REFFILE REPORT IS REP1.
000013 WORKING-STORAGE SECTION.
000014 01 YMMDD        PIC X(6).
000015 01 YYYYMMDD    PIC X(8).
000016 01 WOBR        OBJECT REFERENCE C5565.
000017 REPORT         SECTION.
000018 RD REP1 PAGE 66

```

```

000019          FIRST DETAIL 6.
000020 01 PH-ITEM TYPE PH.
000021 02 LINE 2.
000022 03 DATA COLUMN 50 PIC X(6) SOURCE YYYYMMDD.
000023 PROCEDURE DIVISION.
000024 MOVE WOBR :: "M5565"(DATA1) TO YYYYMMDD
000025 END PROGRAM P5565.

```

P5565.cob 24: JMN2691I-S 'DATA1' in the REPORT SECTION cannot be referred in the PROCEDURE DIVISION.

P5565.cob 24: JMN5565I-S The data item for the argument of the in-line method invocation must be defined in the FILE SECTION, WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION or LINKAGE SECTION.

### JMN5566I-S ([Win32])

**The in-line method invocation argument must be one of the following: SELF, EXCEPTION-OBJECT, NULL, the class name that is specified in the REPOSITORY paragraph, the data-item in the FILE SECTION, WORKING-STORAGE SECTION or LINKAGE SECTION, or the literal.**

#### Example

```

[C5566.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C5566.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID. M5566.
000008 ENVIRONMENT DIVISION.
000009 DATA DIVISION.
000010 WORKING-STORAGE SECTION.
000011 01 WGP.
000012 02 WOCC PIC X(1) OCCURS 10 INDEXED BY IX1.
000013 LINKAGE SECTION.
000014 01 LK1 PIC S9(9) COMP-5.
000015 01 LK2 PIC X(9).
000016 PROCEDURE DIVISION USING LK1
000017 RETURNING LK2.
000018 MOVE SELF :: "M5566" (IX1) TO LK2.
000019 END METHOD M5566.
000020 END OBJECT.
000021 END CLASS C5566.

```

C5566.cob 18: JMN5566I-S The in-line method invocation argument must be one of the following: SELF, EXCEPTION-OBJECT, NULL, the class name that is specified in the REPOSITORY paragraph, the data-item in the FILE SECTION, WORKING-STORAGE SECTION or LINKAGE SECTION, or the literal.

C5566.cob 18: JMN3430I-S The parameter number specified in the USING phrase of the INVOKE statement or in-line invocation must be the same parameter number specified in the USING phrase of the PROCEDURE DIVISION.

### JMN5566I-S ([Winx64])

**The in-line method invocation argument must be one of the following: SELF, EXCEPTION-OBJECT, NULL, the class name that is specified in the REPOSITORY paragraph, the data-item in the FILE SECTION, WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION or LINKAGE SECTION, or the literal.**

#### Example

```

[C5566.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C5566.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.

```

```

000005 PROCEDURE      DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.      M5566.
000008 ENVIRONMENT    DIVISION.
000009 DATA           DIVISION.
000010 WORKING-STORAGE SECTION.
000011 01 WGP.
000012 02 WOCC        PIC X(1) OCCURS 10 INDEXED BY IX1.
000013 LINKAGE        SECTION.
000014 01 LK1         PIC S9(9) COMP-5.
000015 01 LK2         PIC X(9).
000016 PROCEDURE      DIVISION USING LK1
000017                  RETURNING LK2.
000018     MOVE SELF  :: "M5566" (IX1) TO LK2.
000019 END METHOD        M5566.
000020 END OBJECT.
000021 END CLASS        C5566.

```

C5566.cob 18: JMN5566I-S The in-line method invocation argument must be one of the following: SELF, EXCEPTION-OBJECT, NULL, the class name that is specified in the REPOSITORY paragraph, the data-item in the FILE SECTION, WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION or LINKAGE SECTION, or the literal.

C5566.cob 18: JMN3430I-S The parameter number specified in the USING phrase of the INVOKE statement or in-line invocation must be the same parameter number specified in the USING phrase of the PROCEDURE DIVISION.

## JMN5567I-S

**A class-name used as an argument in the in-line method invocation cannot be the class-name of a special class.**

### Example

```

[C5567.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5567.
000003 ENVIRONMENT    DIVISION.
000004 CONFIGURATION  SECTION.
000005 REPOSITORY.
000006     CLASS EXCEL AS "*OLE" .
000007 IDENTIFICATION DIVISION.
000008 OBJECT.
000009 PROCEDURE      DIVISION.
000010 IDENTIFICATION DIVISION.
000011 METHOD-ID.      M5567A.
000012 DATA           DIVISION.
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE      DIVISION.
000015     DISPLAY SELF  :: "M5567B" (EXCEL)
000016 END METHOD        M5567A.
000017 IDENTIFICATION DIVISION.
000018 METHOD-ID.        M5567B.
000019 DATA           DIVISION.
000020 LINKAGE        SECTION.
000021 01 WOBJ         OBJECT REFERENCE.
000022 01 WRTSTR     PIC X(2).
000023 PROCEDURE      DIVISION
000024                 USING WOBJ
000025                 RETURNING WRTSTR.
000026 END METHOD        M5567B.
000027 END OBJECT.
000028 END CLASS        C5567.

```

C5567.cob 15: JMN5567I-S A class-name used as an argument in the in-line method invocation cannot be the class-name of a special class.



## Explanation

If the literal of a class-specifier in the repository paragraph of the environment division is listed below, the class-name is a special class name.

- "\*COM" (or "\*OLE")
- "\*COM-ARRAY" (or "\*OLE-ARRAY")
- "\*COM-EXCEPTION" (or "\*OLE-EXCEPTION")
- "\*COB-BINDTABLE"
- "\*COM:COM server name:COM class name" (COM server name = arbitrary name used for association with a type library, COM class name = dispinterface name or coclass name)

## JMN5568I-S

---

**The @1@ statement for screen handling can only be used in the program definition.**

### Parameter Explanation

@1@ : ACCEPT or DISPLAY.

### Example

```
[C5568.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5568.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.         M5568.
000008 DATA              DIVISION.
000009 WORKING-STORAGE SECTION.
000010 PROCEDURE          DIVISION.
000011     DISPLAY "SRCEEN FUNCTION" UPON CRT.
000012 END METHOD          M5568.
000013 END OBJECT.
000014 END CLASS          C5568.
```

C5568.cob 11: JMN5568I-S The DISPLAY statement for screen handling can only be used in the program definition.

## JMN5569I-S

---

**The GLOBAL phrase cannot be specified in a USE statement with a class-name. The GLOBAL phrase is ignored.**

### Example

```
[C5569.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5569.
000003 ENVIRONMENT        DIVISION.
000004 CONFIGURATION      SECTION.
000005 REPOSITORY.
000006 IDENTIFICATION DIVISION.
000007 OBJECT.
000008 PROCEDURE DIVISION.
000009 IDENTIFICATION DIVISION.
000010 METHOD-ID.           M5569.
000011 DATA              DIVISION.
000012 WORKING-STORAGE SECTION.
000013 01 WX              PIC X(4).
000014 LINKAGE            SECTION.
```

```

000015 PROCEDURE      DIVISION.
000016 DECLARATIVES.
000017 ERR1 SECTION. USE GLOBAL AFTER EXCEPTION C5569.
000018     DISPLAY "ERROR SECTION".
000019 END DECLARATIVES.
000020 END METHOD        M5569.
000021 END OBJECT.
000022 END CLASS      C5569.

```

C5569.cob 17: JMN5569I-S The GLOBAL phrase cannot be specified in a USE statement with a class-name. The GLOBAL phrase is ignored.

## JMN5570I-S

**An object modifier cannot be specified for a special class or for an object reference identifier that refers to a special class except an early-binding special class and '\*COM(\*OLE)'.**

### Example

```

[C5570.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.       C5570.
000003 ENVIRONMENT    DIVISION.
000004 CONFIGURATION  SECTION.
000005 REPOSITORY.
000006     CLASS FJBASE
000007     CLASS BNDTBL-CL AS "*COB-BINDTABLE".
000008 IDENTIFICATION DIVISION.
000009 OBJECT.
000010 PROCEDURE      DIVISION.
000011 IDENTIFICATION DIVISION.
000012 METHOD-ID.      M5570.
000013 DATA          DIVISION.
000014 WORKING-STORAGE SECTION.
000015 01 WOBR1       OBJECT REFERENCE.
000016 01 WOBR2       OBJECT REFERENCE BNDTBL-CL.
000017 PROCEDURE      DIVISION.
000018     SET WOBR1 TO WOBR2 AS FJBASE.
000019 END METHOD        M5570.
000020 END OBJECT.
000021 END CLASS      C5570.

```

C5570.cob 18: JMN5570I-S An object modifier cannot be specified for a special class or for an object reference identifier that refers to a special class except an early-binding special class and '\*COM(\*OLE)'.

### Explanation

An object modifier specifies that the identifier type specified in front of AS is considered to be a type specified after AS.

A special object (the OLE object, etc.) is not a COBOL object. An object modifier cannot specify a special object except for special objects that refer to the following classes.

Class in which the value of the literal in the class specifier in the REPOSITORY paragraph of the environment division is:

- "\*COM" (or "\*OLE")
- "\*COM:COM server name:COM class name" (COM server name = user-defined name used for association with a type library, COM class name = dispinterface name or coclass name)

## JMN5571I-S

**The class-name specified with the object modifier cannot be the class-name of a special class. Universal is assumed.**

## Example

```
[C5571.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5571.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     CLASS COM AS "*COM".
000007 IDENTIFICATION DIVISION.
000008 OBJECT.
000009 PROCEDURE        DIVISION.
000010 IDENTIFICATION DIVISION.
000011 METHOD-ID.        M5571.
000012 DATA            DIVISION.
000013 WORKING-STORAGE SECTION.
000014 01 WOBR1        OBJECT REFERENCE.
000015 01 WOBR2        OBJECT REFERENCE COM.
000016 PROCEDURE        DIVISION.
000017     SET WOBR2 TO WOBR1 AS COM.
000018 END METHOD        M5571.
000019 END OBJECT.
000020 END CLASS        C5571.
```

C5571.cob 17: JMN5571I-S The class-name specified with the object modifier cannot be the class-name of a special class. Universal is assumed.

## Explanation

The class-names of a special class other than the class-name of an early bind special class cannot be specified after the AS phrase of an object modifier.

## JMN5572I-S

### The object reference identifier in @1@ cannot refer to a special class.

#### Parameter Explanation

@1@ : In-line method invocation or object property.

## Example

```
[C5572.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5572.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     CLASS SPL-CL AS "*OLE".
000007 IDENTIFICATION DIVISION.
000008 OBJECT.
000009 DATA            DIVISION.
000010 WORKING-STORAGE SECTION.
000011 01 OBJB          OBJECT REFERENCE.
000012 01 OBJX          OBJECT REFERENCE SPL-CL.
000013 PROCEDURE        DIVISION.
000014 IDENTIFICATION DIVISION.
000015 METHOD-ID.        M5572A.
000016 DATA            DIVISION.
000017 WORKING-STORAGE SECTION.
000018 01 WRST          PIC X(2).
000019 PROCEDURE        DIVISION.
000020     MOVE OBJX :: "M5572B" (OBJX) TO WRST.
000021 END METHOD        M5572A.
```

```

000022 IDENTIFICATION DIVISION.
000023 METHOD-ID.          M5572B.
000024 DATA              DIVISION.
000025 LINKAGE            SECTION.
000026 01 WOBJ            OBJECT REFERENCE.
000027 01 WRTSTR         PIC X(2).
000028 PROCEDURE         DIVISION
000029                     USING WOBJ
000030                     RETURNING WRTSTR.
000031     IF WOBJ NOT = NULL THEN
000032         MOVE "OK" TO WRTSTR
000033     ELSE
000034         MOVE "NG" TO WRTSTR
000035     END-IF.
000036 END METHOD           M5572B.
000037 END OBJECT.
000038 END CLASS          C5572.

```

C5572.cob 20: JMN5572I-S The object reference identifier in in-line method invocation cannot refer to a special class.

### Explanation

If the literal of a class-specifier in the repository paragraph of the environment division is listed below, the class-name is a special class name.

- "\*COM" (or "\*OLE")
- "\*COM-ARRAY" (or "\*OLE-ARRAY")
- "\*COM-EXCEPTION" (or "\*OLE-EXCEPTION")
- "\*COB-BINDTABLE"
- "\*COM:COM server name:COM class name" (COM server name = arbitrary name used for association with a type library, COM class name = dispinterface name or coclass name)

### JMN5573I-S

**The file organization is mismatched. The WRITE statement with the ADVANCING phrase is ignored.**

### Example

```

[C5573.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.          C5573.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 ENVIRONMENT       DIVISION.
000006 INPUT-OUTPUT      SECTION.
000007 FILE-CONTROL.
000008     SELECT OUTFILE ASSIGN TO SYS001.
000009 DATA              DIVISION.
000010 FILE              SECTION.
000011     FD OUTFILE.
000012     01 OUTDATA     PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE           DIVISION.
000015 IDENTIFICATION DIVISION.
000016 METHOD-ID.          M5573 PROTOTYPE.
000017 PROCEDURE           DIVISION.
000018 END METHOD           M5573.
000019 END OBJECT.
000020 END CLASS           C5573.

```

```

[M5573.cob]
000001 IDENTIFICATION DIVISION.
000002 METHOD-ID.      M5573 OF C5573.
000003 ENVIRONMENT   DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006     CLASS C5573.
000007 DATA         DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 DATAM      PIC X(80).
000010 PROCEDURE     DIVISION.
000011     OPEN OUTPUT OUTFILE.
000012     MOVE "FILE ERROR" TO DATAM.
000013     WRITE OUTDATA FROM DATAM AFTER ADVANCING 10 LINE.
000014     CLOSE  OUTFILE.
000015     EXIT METHOD.
000016 END METHOD      M5573.

```

M5573.cob 13: JMN5573I-S The file organization is mismatched. The WRITE statement with the ADVANCING phrase is ignored.

### Explanation

In the procedure division of the separate method definition (the method definition that is not included in the class definition), it is necessary to meet either of the following requirements if the ADVANCING phrase is written in the WRITE statement of the file declared in the factory definition or the object definition.

- PRINTER or PRINTER-n (n is an integer to 1-9) is specified by the ASSIGN phrase for the file.
- The WRITE statement with the ADVANCING phrase for the file is written by the procedure of the source unit in which the file is declared.
- The file is a print file with the FORMAT clause.

### JMN5574I-S

**The special class class-name cannot be specified in the USING phrase of the @1@ statement. The @1@ statement is ignored.**

#### Parameter Explanation

@1@ : INVOKE.

#### Example

```

[P5574.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P5574.
000003 ENVIRONMENT   DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006     CLASS COM AS "*COM".
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 WOBRL      OBJECT REFERENCE.
000010 PROCEDURE DIVISION.
000011     INVOKE WOBRL "XX" USING COM.
000012 END PROGRAM     P5574.

```

P5574.cob 11: JMN5574I-S The special class class-name cannot be specified in the USING phrase of the INVOKE statement. The INVOKE statement is ignored.

### JMN5575I-S

**The predefined object identifier NULL cannot be use as an object identifier for the INVOKE statement.**

## Example

```
[P5575.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5575.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 PROCEDURE DIVISION.
000006     INVOKE NULL "M5575".
000007 END PROGRAM      P5575.
```

P5575.cob 6: JMN5575I-S The predefined object identifier NULL cannot be use as an object identifier for the INVOKE statement.

## JMN5576I-S ([Win32])

**The USING phrase identifier for the @1@ statement must be defined in a file, WORKING-STORAGE or LINKAGE SECTION.**

### Parameter Explanation

@1@ : INVOKE / CALL

## Example

```
[C5576.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID      C5576.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE      DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.     M5576.
000008 DATA          DIVISION.
000009 LINKAGE          SECTION.
000010 01 LK1          PIC X(6).
000011 01 LK2          PIC X(8).
000012 PROCEDURE      DIVISION USING LK1
000013                RETURNING LK2.
000014 END METHOD        M5576.
000015 END OBJECT.
000016 END CLASS        C5576.
```

```
[P5576.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P5576.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     CLASS C5576.
000007 INPUT-OUTPUT     SECTION.
000008 FILE-CONTROL.
000009     SELECT REPFIL ASSIGN TO SYS001.
000010 DATA              DIVISION.
000011 FILE                SECTION.
000012 FD REPFIL REPORT IS REP1.
000013 WORKING-STORAGE SECTION.
000014 01 YMMDD           PIC X(6).
000015 01 YYYYMMDD       PIC X(8).
000016 01 WOBR            OBJECT REFERENCE C5576.
000017 REPORT            SECTION.
000018 RD REP1 PAGE 66
000019     FIRST DETAIL 6.
000020 01 PH-ITEM TYPE PH.
000021 02 LINE 2.
```

```

000022      03 COLUMN 50 PIC X(6) SOURCE YYMMDD.
000023 PROCEDURE      DIVISION.
000024      INVOKE WOBR "M5576" USING PH-ITEM
000025                      RETURNING YYYYMMDD
000026 END PROGRAM      P5576.

```

P5576.cob 24: JMN26911-S 'PH-ITEM' in the REPORT SECTION cannot be referred in the PROCEDURE DIVISION.

P5576.cob 24: JMN55761-S The USING phrase identifier for the INVOKE statement must be defined in a file, WORKING-STORAGE or LINKAGE SECTION.

## JMN55761-S ([Winx64])

**The USING phrase identifier for the @1@ statement must be defined in the FILE, WORKING-STORAGE, LOCAL-STORAGE or LINKAGE SECTION.**

### Parameter Explanation

@1@ : INVOKE / CALL.

### Example

```

[C5576.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID      C5576.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE      DIVISION.
000006 IDENTIFICATION DIVISION.
000007 METHOD-ID.     M5576.
000008 DATA          DIVISION.
000009 LINKAGE         SECTION.
000010 01 LK1         PIC X(6).
000011 01 LK2         PIC X(8).
000012 PROCEDURE      DIVISION USING LK1
000013                      RETURNING LK2.
000014 END METHOD      M5576.
000015 END OBJECT.
000016 END CLASS      C5576.

```

```

[P5576.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P5576.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 REPOSITORY.
000006      CLASS C5576.
000007 INPUT-OUTPUT   SECTION.
000008 FILE-CONTROL.
000009      SELECT REPFIL ASSIGN TO SYS001.
000010 DATA           DIVISION.
000011 FILE            SECTION.
000012 FD REPFIL REPORT IS REP1.
000013 WORKING-STORAGE SECTION.
000014 01 YYMMDD      PIC X(6).
000015 01 YYYYMMDD   PIC X(8).
000016 01 WOBR       OBJECT REFERENCE C5576.
000017 REPORT        SECTION.
000018 RD REP1 PAGE 66
000019      FIRST DETAIL 6.
000020 01 PH-ITEM TYPE PH.
000021 02 LINE 2.
000022      03 COLUMN 50 PIC X(6) SOURCE YYMMDD.
000023 PROCEDURE      DIVISION.

```

```

000024     INVOKE WOBR "M5576" USING PH-ITEM
000025                                 RETURNING YYYYMMDD
000026 END PROGRAM      P5576.

```

P5576.cob 24: JMN2691I-S 'PH-ITEM' in the REPORT SECTION cannot be referred in the PROCEDURE DIVISION.

P5576.cob 24: JMN5576I-S The USING phrase identifier for the INVOKE statement must be defined in the FILE, WORKING-STORAGE, LOCAL-STORAGE or LINKAGE SECTION.

## JMN5578I-S

**@1@ cannot be specified for the identifier in the SEARCH statement. It is ignored, and the compiler skips to the next AT END or WHEN phrase.**

### Parameter Explanation

@1@ : In-line method invocation or identifier with object modifier.

### Example

```

[P5578.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5578.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 REPOSITORY.
000006     CLASS FJBASE.
000007 DATA           DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 WOBR        OBJECT REFERENCE.
000010 PROCEDURE      DIVISION.
000011     SEARCH WOBR AS FJBASE
000012     WHEN WOBR = NULL
000013     DISPLAY "END"
000014     END-SEARCH.
000015 END PROGRAM     P5578.

```

P5578.cob 11: JMN5578I-S Identifier with object modifier cannot be specified for the identifier in the SEARCH statement. It is ignored, and the compiler skips to the next AT END or WHEN phrase.

## JMN5579I-S

**@3@ cannot be specified for the @2@ phrase in the @1@ statement. The @2@ phrase is ignored.**

### Parameter Explanation

@1@ : ACCEPT or DISPLAY.

@2@ : AT, LINE, COLUMN, SIZE or PROMPT.

@3@ : In-line method invocation, identifier with object modifier, object property, class-name, predefined object identifier SELF, predefined object identifier SUPER, predefined object identifier EXCEPTION-OBJECT or predefined object identifier NULL.

### Example

```

[SYSEXP.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      SYSEXP.
000003 END CLASS      SYSEXP.
[P5579.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5579.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 REPOSITORY.
000006     CLASS SYSEXP.

```



```

000007 DATA          DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 WDA1.
000010  02 WDA11      PIC S9(4).
000011  02 WDA12      PIC S9(4).
000012  02 WDA13      PIC X(20).
000013 PROCEDURE      DIVISION.
000014 DECLARATIVES.
000015 ERR-1 SECTION. USE EXCEPTION SYSEXP.
000016   ACCEPT  WDA1 AT EXCEPTION-OBJECT
000017           ON EXCEPTION DISPLAY "NG in 1600 LINE".
000018 END DECLARATIVES.
000019 END PROGRAM     P5579.

```

P5579.cob 16: JMN5579I-S Predefined object identifier EXCEPTION-OBJECT cannot be specified for the AT phrase in the ACCEPT statement. The AT phrase is ignored.

## JMN5580I-S

**The @1@ statement can only be used in the program definition. The @1@ statement is ignored.**

### Parameter Explanation

@1@ : ALTER, ENTER, ENTRY, GENERATE, GO TO MORE-LABELS, INITIATE, TERMINATE, SEEK, SUPPRESS, GOBACK, SERVICE-LABEL, TRANSACTION or USE LABEL.

### Example

```

[C5580.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.       C5580.
000003 ENVIRONMENT    DIVISION.
000004 CONFIGURATION  SECTION.
000005 REPOSITORY.
000006 IDENTIFICATION DIVISION.
000007 OBJECT.
000008 DATA          DIVISION.
000009 WORKING-STORAGE SECTION.
000010 PROCEDURE      DIVISION.
000011 IDENTIFICATION DIVISION.
000012 METHOD-ID.      M5580.
000013 ENVIRONMENT    DIVISION.
000014 DATA          DIVISION.
000015 LINKAGE        SECTION.
000016 PROCEDURE      DIVISION.
000017   DISPLAY "M5580".
000018   GOBACK.
000019 END METHOD       M5580.
000020 END OBJECT.
000021 END CLASS      C5580.

```

C5580.cob 18: JMN5580I-S The GOBACK statement can only be used in the program definition. The GOBACK statement is ignored.

## JMN5581I-S

**@1@ can be used in the program definition. @1@ is ignored.**

### Parameter Explanation

@1@ : STOP statement with literal, OPEN statement with REVERSE phrase or GO TO statement without a procedure-name.

### Example

```

[C5581.cob]
000001 IDENTIFICATION DIVISION.

```

```

000002 CLASS-ID.          C5581.
000003 ENVIRONMENT      DIVISION.
000004 IDENTIFICATION   DIVISION.
000005 OBJECT.
000006 PROCEDURE        DIVISION.
000007 IDENTIFICATION   DIVISION.
000008 METHOD-ID.        M5581.
000009 ENVIRONMENT      DIVISION.
000010 DATA            DIVISION.
000011 WORKING-STORAGE  SECTION.
000012 PROCEDURE        DIVISION.
000013     DISPLAY      "TEST START".
000014     STOP         "Restart Now !".
000015     DISPLAY      "TEST END".
000016 END METHOD        M5581.
000017 END OBJECT.
000018 END CLASS        C5581.

```

C5581.cob 14: JMN5581I-S STOP statement with literal can be used in the program definition. STOP statement with literal is ignored.

## JMN5582I-S

**Predefined object identifier SELF cannot be specified in the KEY phrase of a SORT or MERGE statement.**

### Example

```

[C5582.cob]
000001 IDENTIFICATION   DIVISION.
000002 CLASS-ID.        C5582 .
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006 IDENTIFICATION   DIVISION.
000007 OBJECT.
000008 PROCEDURE        DIVISION.
000009 IDENTIFICATION   DIVISION.
000010 METHOD-ID.        M5582.
000011 ENVIRONMENT      DIVISION.
000012 INPUT-OUTPUT     SECTION.
000013 FILE-CONTROL.
000014     SELECT SQFILE1 ASSIGN TO SYS001.
000015     SELECT SQFILE2 ASSIGN TO SYS002.
000016     SELECT SRFILE  ASSIGN TO SYS003.
000017 I-O-CONTROL.
000018 DATA            DIVISION.
000019 FILE              SECTION.
000020 FD SQFILE1.
000021 01 SQF1REC       PIC X(80).
000022 FD SQFILE2.
000023 01 SQF2REC       PIC X(80).
000024 SD SRFILE.
000025 01 SRFREC.
000026 02 SRKEY         PIC X(08).
000027 02              PIC X(72).
000028 LINKAGE          SECTION.
000029 PROCEDURE        DIVISION.
000030     OPEN INPUT  SQFILE1
000031             OUTPUT SQFILE2
000032     SORT SRFILE
000033             ON ASCENDING KEY SRKEY SELF
000034             USING  SQFILE1
000035             GIVING SQFILE2.
000036     CLOSE SQFILE1 SQFILE2.
000037 END METHOD        M5582.

```

```
000038 END OBJECT.  
000039 END CLASS      C5582.
```

C5582.cob 33: JMN5582I-S Predefined object identifier SELF cannot be specified in the KEY phrase of a SORT or MERGE statement.

## JMN5583I-S

**Special register @1@ can only be used in the program definition.**

### Parameter Explanation

@1@ : PROGRAM-STATUS or RETURN-CODE.

### Example

```
[C5583.cob]  
000001 IDENTIFICATION DIVISION.  
000002 CLASS-ID.      C5583.  
000003 ENVIRONMENT   DIVISION.  
000004 IDENTIFICATION DIVISION.  
000005 OBJECT.  
000006 PROCEDURE     DIVISION.  
000007 IDENTIFICATION DIVISION.  
000008 METHOD-ID.     M5581.  
000009 ENVIRONMENT   DIVISION.  
000010 DATA         DIVISION.  
000011 WORKING-STORAGE SECTION.  
000012 PROCEDURE     DIVISION.  
000013     DISPLAY PROGRAM-STATUS.  
000014     DISPLAY RETURN-CODE.  
000015 END METHOD     M5581.  
000016 END OBJECT.  
000017 END CLASS     C5583.
```

C5583.cob 13: JMN5583I-S Special register PROGRAM-STATUS can only be used in the program definition.

C5583.cob 14: JMN5583I-S Special register RETURN-CODE can only be used in the program definition.

### Explanation

The special registers PROGRAM-STATUS (RETURN-CODE) are automatically created for programs that do not have the RETURNING phrase in the PROCEDURE DIVISION header. PROGRAM-STATUS and RETURN-CODE are synonymous. PROGRAM-STATUS is used to pass a return code to the operating system or to the program that called it.

## JMN5584I-S

**A predefined object identifier or class-name cannot be specified in the USING phrase of the @1@ statement. The @1@ statement is ignored.**

### Parameter Explanation

@1@ : CALL

### Example

```
[P5584.cob]  
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.     P5584.  
000003 ENVIRONMENT   DIVISION.  
000004 CONFIGURATION SECTION.  
000005 REPOSITORY.  
000006     CLASS FJBASE.  
000007 DATA         DIVISION.  
000008 WORKING-STORAGE SECTION.  
000009 PROCEDURE     DIVISION.
```

```

000010 CALL "S5584" USING FJBASE.
000011 END PROGRAM P5584.

```

P5584.cob 10: JMN5584I-S A predefined object identifier or class-name cannot be specified in the USING phrase of the CALL statement. The CALL statement is ignored.

## JMN5585I-S

**The object property cannot be specified in the RETURNING phrase of the @1@ statement.**

### Parameter Explanation

@1@ : CALL or INVOKE.

### Example

```

[C5585.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C5585.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006 IDENTIFICATION DIVISION.
000007 OBJECT.
000008 DATA DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 PR5585 PIC S9(9) COMP-5 PROPERTY.
000011 PROCEDURE DIVISION.
000012 IDENTIFICATION DIVISION.
000013 METHOD-ID. M5585.
000014 DATA DIVISION.
000015 LINKAGE SECTION.
000016 01 LK1 PIC S9(9) COMP-5.
000017 PROCEDURE DIVISION RETURNING LK1.
000018 END METHOD M5585.
000019 END OBJECT.
000020 END CLASS C5585.
[P5585.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P5585.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006 CLASS C5585.
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 WOBR OBJECT REFERENCE C5585.
000010 PROCEDURE DIVISION.
000011 INVOKE WOBR "M5585"
000012 RETURNING PR5585 OF WOBR
000013 END PROGRAM P5585.

```

P5585.cob 12: JMN5585I-S The object property cannot be specified in the RETURNING phrase of the INVOKE statement.

## JMN5590I-S

**'@2@' items are not valid for compile option @1@.**

### Parameter Explanation

@1@ : THREAD(MULTI), RCS(UTF16), ENCODE, ENCODE(UTF8,UTF16)/ENCODE(UTF8,UTF32), ENCODE(SJIS,SJIS).

@2@ : CMD, TRM, WST, CONNECT, DISCONNECT, ERASE, FIND, FINISH, GET, MODIFY, READY, STORE, IF DB-EXCEPTION, USE FOR DB-EXCEPTION, USE FOR DEAD-LOCK, TRANSACTION, JAPANESE, KANJI, DBCS, FUNCTION

CAST-ALPHANUMERIC, FUNCTION NATIONAL-OF, UNICODE1, BMP, SCREEN SECTION or ACCEPT statement and DISPLAY statement for screen handling.

### Example

```
[P5590.cob]
000001 @OPTIONS RCS(UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P5590.
000004 ENVIRONMENT      DIVISION.
000005 DATA             DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 WDA           PIC N(10) .
000008 PROCEDURE         DIVISION.
000009     IF WDA IS KANJI THEN
000010         DISPLAY "KANJI"
000011     END-IF
000012 END PROGRAM       P5590.
```

P5590.cob 9: JMN5590I-S 'KANJI' items are not valid for compile option RCS(UTF16).

### Explanation

In the program that uses an OSIV-series specific function, the following compiler options settings cannot be specified.

- The runtime data codeset is set to Unicode by the RCS compiler option.
- The generation of a multithread object is set by the THREAD compiler option.

### JMN5591I-S

**When an object reference in an INVOKE statement is an in-line method invocation or an object property, the object reference must refer to the class-name specified in the REPOSITORY paragraph.**

### Example

```
[C5591.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5591 INHERITS FJBASE.
000003 ENVIRONMENT      DIVISION.
000004 CONFIGURATION    SECTION.
000005 REPOSITORY.
000006     CLASS FJBASE.
000007 IDENTIFICATION DIVISION.
000008 OBJECT.
000009 DATA             DIVISION.
000010 WORKING-STORAGE SECTION.
000011 01 P5591         OBJECT REFERENCE FACTORY OF FJBASE
000012                 PROPERTY.
000013 PROCEDURE         DIVISION.
000014 IDENTIFICATION DIVISION.
000015 METHOD-ID.        M5591.
000016 ENVIRONMENT      DIVISION.
000017 DATA             DIVISION.
000018 LINKAGE           SECTION.
000019 01 LK1           OBJECT REFERENCE FACTORY OF FJBASE.
000020 PROCEDURE         DIVISION
000021                 RETURNING LK1.
000022 END METHOD         M5591.
000023 END OBJECT.
000024 END CLASS        C5591.
[P5591.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      P5591.
000003 ENVIRONMENT      DIVISION.
```

```

000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006 CLASS C5591.
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 WOB1 OBJECT REFERENCE C5591.
000010 01 WOB2 OBJECT REFERENCE.
000011 PROCEDURE DIVISION.
000012 INVOKE WOB1 :: "M5591" "GETCLASS"
000013 RETURNING WOB2.
000014 END PROGRAM P5591.

```

P5591.cob 12: JMN5591I-S When an object reference in an INVOKE statement is an in-line method invocation or an object property, the object reference must refer to the class-name specified in the REPOSITORY paragraph.

## JMN5592I-S

**OMITTED cannot be specified for the BY CONTENT phrase of the @1@ statement. The @1@ statement is ignored.**

### Parameter Explanation

@1@ : INVOKE

### Example

```

[C5592.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C5592.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006 IDENTIFICATION DIVISION.
000007 OBJECT.
000008 PROCEDURE DIVISION.
000009 IDENTIFICATION DIVISION.
000010 METHOD-ID. M5592.
000011 ENVIRONMENT DIVISION.
000012 DATA DIVISION.
000013 LINKAGE SECTION.
000014 01 LK1 PIC X(10).
000015 01 LK2 PIC 9(10).
000016 PROCEDURE DIVISION
000017 USING LK1 LK2.
000018 END METHOD M5592.
000019 END OBJECT.
000020 END CLASS C5592.
[P5592.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P5592.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006 CLASS C5592
000007 .
000008 DATA DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 WOBJ OBJECT REFERENCE C5592.
000011 PROCEDURE DIVISION.
000012 INVOKE WOBJ "M5592" USING BY CONTENT OMITTED 20.
000013 END PROGRAM P5592.

```

P5592.cob 12: JMN5592I-S OMITTED cannot be specified for the BY CONTENT phrase of the INVOKE statement. The INVOKE statement is ignored.

## JMN5593I-S

**@1@ can only be used if the runtime code set is Unicode.**

### Parameter Explanation

@1@ : FUNCTION UTF8-OF or FUNCTION UCS2-OF.

### Example

```
[C5593.cob]
000001 @OPTIONS RCS(ACP)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C5593.
000004 ENVIRONMENT     DIVISION.
000005 DATA           DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 WCHR         PIC X(20).
000008 01 WNCHR        PIC N(10).
000009 01 WLENG        PIC S9(4) BINARY.
000010 PROCEDURE      DIVISION.
000011*
000012     MOVE FUNCTION UCS2-OF (WCHR) TO WNCHR
000013*
000014     MOVE FUNCTION UTF8-OF(WNCHR) TO WCHR
000015*
000016     COMPUTE WLENG = FUNCTION STORED-CHAR-LENGTH(WCHR)
000017     COMPUTE WLENG = FUNCTION STORED-CHAR-LENGTH(WNCHR)
000018 END PROGRAM      C5593.
```

P5593.cob 12: JMN5593I-S FUNCTION UCS2-OF can only be used if the runtime code set is Unicode.

P5593.cob 14: JMN5593I-S FUNCTION UTF8-OF can only be used if the runtime code set is Unicode.

## JMN5595I-S

**For the main program, the parameter specified for the USING phrase of the PROCEDURE DIVISION header should be only one group item that does not exceed 102 bytes, and the first subordinate elementary item must be a 2 byte binary item.**

### Example

```
[P5595.cob]
000001 @OPTIONS MAIN
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P5595.
000004 ENVIRONMENT     DIVISION.
000005 DATA           DIVISION.
000006 LINKAGE        SECTION.
000007 01 WPRM1.
000008 02 WPRM1L      PIC 9(4).
000009 02 WPRM1X      PIC 9(4).
000010 01 WPRM2.
000011 02 WPRM1L      PIC 9(4).
000012 02 WPRM1X      PIC 9(4).
000013 PROCEDURE     DIVISION
000014                 USING WPRM1 WPRM2.
000015     MOVE WPRM1 TO WPRM2
000016 END PROGRAM      P5595.
```

P5595.cob 7: JMN5595I-S For the main program, the parameter specified for the USING phrase of the PROCEDURE DIVISION header should be only one group item that does not exceed 102 bytes, and the first subordinate elementary item must be a 2 byte binary item.

## Explanation

In the LINKAGE section of the main program, only one data item for receiving the parameter in the global server system format can be defined.

When the format of the data item in the LINKAGE section is wrong or the subprogram with an argument is compiled as a main program, the following diagnostic message is output.

Refer to the "NetCOBOL User's Guide" for details of the global server system format parameters.

If it is a data item not used for this purpose, you should correct to define it in the WORKING-STORAGE section.

## JMN5596I-S

**When the ENCODING clause is specified in the parameter described by the USING statement in the main program procedure division, then the encoding must be the same as the Alphanumeric data item specified in the compilation option ENCODE. The specified parameter will be disabled.**

### Example

```
[p5596.cob]
000001 @OPTIONS MAIN, ENCODE(UTF8, UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P5596.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 SPECIAL-NAMES.
000007 ALPHABET SJIS IS SJIS
000008 .
000009 DATA DIVISION.
000010 LINKAGE SECTION.
000011 01 WPRM1.
000012 02 WPRM1L PIC 9(4) COMP-5.
000013 02 WPRM1X PIC X(100) ENCODING SJIS.
000014 PROCEDURE DIVISION USING WPRM1 .
000015 DISPLAY WPRM1(1:WPRM1L)
000016 END PROGRAM P5596.
```

P5596.cob 13: JMN5596I-S When the ENCODING clause is specified in the parameter described by the USING statement in the main program procedure division, then the encoding must be the same as the Alphanumeric data item specified in the compilation option ENCODE. The specified parameter will be disabled.

## JMN5600I-S

**A class-name of early-bind special class must be specified for the object modifier which applies to the object identifier of the special class.**

### Example

```
[c5600.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C5600.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006 CLASS SHEET AS "*COM:EXCEL:WORKSHEET"
000007 CLASS FJBASE.
000008 OBJECT.
000009 PROCEDURE DIVISION.
000010 METHOD-ID. M5600.
000011 DATA DIVISION.
000012 WORKING-STORAGE SECTION.
000013 01 WEXCEL OBJECT REFERENCE SHEET.
000014 01 WOBR OBJECT REFERENCE FJBASE.
000015 PROCEDURE DIVISION.
```



```

000016      SET WOBR TO WEXCEL AS FJBASE.
000017 END METHOD      M5600.
000018 END OBJECT.
000019 END CLASS      C5600.

```

C5600.cob 16: JMN5600I-S A class-name of early-bind special class must be specified for the object modifier which applies to the object identifier of the special class.

## JMN5601I-S

**The left side of 'AS' must be an object identifier of special class, if a class-name of special class is specified for the object modifier.**

### Example

```

[C5601.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5601.
000003 ENVIRONMENT   DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006      CLASS SHEET AS "*COM:EXCEL:WORKSHEET"
000007      CLASS FJBASE.
000008 OBJECT.
000009 PROCEDURE      DIVISION.
000010 METHOD-ID.     M5601.
000011 DATA         DIVISION.
000012 WORKING-STORAGE SECTION.
000013 01 WEXCEL      OBJECT REFERENCE SHEET.
000014 01 WOBR        OBJECT REFERENCE FJBASE.
000015 PROCEDURE      DIVISION.
000016      SET WEXCEL TO WOBR AS SHEET.
000017 END METHOD      M5601.
000018 END OBJECT.
000019 END CLASS      C5601.

```

C5601.cob 16: JMN5601I-S The left side of 'AS' must be an object identifier of special class, if a class-name of special class is specified for the object modifier.

## JMN5602I-S

**Other optional phrase cannot be specified, if a class-name of special class is specified for the object modifier.**

### Example

```

[C5602.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID.      C5602.
000003 ENVIRONMENT   DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006      CLASS EXCEL AS "*COM:EXCEL:APPLICATION"
000007      CLASS SHEET AS "*COM:EXCEL:WORKSHEET".
000008 OBJECT.
000009 PROCEDURE      DIVISION.
000010 METHOD-ID.     M5602.
000011 DATA         DIVISION.
000012 WORKING-STORAGE SECTION.
000013 01 WEXCEL      OBJECT REFERENCE EXCEL.
000014 01 WSHEET     OBJECT REFERENCE SHEET.
000015 PROCEDURE      DIVISION.
000016      SET WSHEET TO WEXCEL AS FACTORY OF SHEET.
000017      SET WEXCEL TO WSHEET AS EXCEL ONLY.

```

```

000018 END METHOD      M5602.
000019 END OBJECT.
000020 END CLASS      C5602.

```

C5602.cob 16: JMN5602I-S Other optional phrase cannot be specified, if a class-name of special class is specified for the object modifier.

C5602.cob 17: JMN5602I-S Other optional phrase cannot be specified, if a class-name of special class is specified for the object modifier.

### Explanation

When the special class name is specified for the object modifier, 'FACTORY OF' and 'ONLY' cannot be specified.

## JMN5783I-S

**The ENCODING clause can be specified for an FD or SD data item, data description group item or elementary item as long as the item type is alphanumeric character, edited alphanumeric character, national, or national edited item. The ENCODING clause is disabled.**

### Example

```

[c5783.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      C5783.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006     ALPHABET UTF16 FOR NATIONAL IS UTF16.
000007 DATA DIVISION.
000008 WORKING-STORAGE SECTION.
000009 01 DATA1 PIC S9(9) DISPLAY ENCODING UTF16.
000010 END PROGRAM C5783.

```

c5783.cob 9: JMN5783I-S The ENCODING clause can be specified for an FD or SD data items, data description group item or elementary item as long as the item type is alphanumeric character, edited alphanumeric character, national, or national edited item. The ENCODING clause is disabled.

## JMN5784I-S

**In the ENCODING clause of @1@, the alphabet name for encoding format @2@ must be specified. The ENCODING clause is disabled.**

### Parameter Explanation

@1@ : "ALPHANUMERIC item or ALPHANUMERIC edited item" or "NATIONAL item or NATIONAL edited item"

@2@ : ALPHANUMERIC or NATIONAL

### Example

```

[c5784.cob]
000001 @OPTIONS ENCODE(UTF8,UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C5784.
000004 ENVIRONMENT     DIVISION.
000005 CONFIGURATION   SECTION.
000006 SPECIAL-NAMES.
000007     ALPHABET UTF16 FOR NATIONAL IS UTF16.
000008 DATA DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 DATA1 PIC X(20) DISPLAY ENCODING UTF16.
000011 END PROGRAM C5784.

```

c5784.cob 10: JMN5784I-S In the ENCODING clause of ALPHANUMERIC item or ALPHANUMERIC edited item, the alphabet name for encoding format ALPHANUMERIC must be specified. The ENCODING clause is disabled.

## JMN5785I-S

**In the @1@ item of the MOVE statement where CONVERSION is specified, partial reference, function identifier, inline method calling and property name cannot be specified. The MOVE statement is disabled.**

### Parameter Explanation

@1@ : sending or receiving

### Example

```
[c5785.cob]
000001 @OPTIONS ENCODE(UTF8,UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C5785.
000004 ENVIRONMENT      DIVISION.
000005 CONFIGURATION   SECTION.
000006 SPECIAL-NAMES.
000007     ALPHABET UTF16 FOR NATIONAL IS UTF16.
000008 DATA DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 DATA1 PIC X(20) DISPLAY.
000011 01 DATA2 PIC N(20) DISPLAY.
000012 PROCEDURE DIVISION.
000013     MOVE CONVERSION DATA1(1:10) TO DATA2.
000014 END PROGRAM C5785.
```

c5785.cob 13: JMN5785I-S In the sending item of the MOVE statement where CONVERSION is specified, partial reference, function identifier, inline method calling and property name cannot be specified. The MOVE statement is disabled.

## JMN5786I-S

**Alphanumeric data item or national item can be specified in the @1@ items of the MOVE statement where CONVERSION is specified. The MOVE statement is disabled.**

### Parameter Explanation

@1@ : sending or receiving

### Example

```
[c5786.cob]
000001 @OPTIONS ENCODE(UTF8,UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C5786.
000004 ENVIRONMENT      DIVISION.
000005 CONFIGURATION   SECTION.
000006 SPECIAL-NAMES.
000007     ALPHABET UTF16 FOR NATIONAL IS UTF16.
000008 DATA DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 DATA1 PIC S9(9) DISPLAY.
000011 01 DATA2 PIC N(10) DISPLAY.
000012 PROCEDURE DIVISION.
000013     MOVE CONVERSION DATA1 TO DATA2.
000014 END PROGRAM C5786.
```

c5786.cob 13: JMN5786I-S Alphanumeric data item or national item can be specified in the sending items of the MOVE statement where CONVERSION is specified. The MOVE statement is disabled.

## JMN5787I-S

**A constant cannot be specified in the MOVE statement when CONVERSION is specified. The MOVE statement is disabled.**

### Example

```
[c5787.cob]
000001 @OPTIONS ENCODE(UTF8,UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C5787.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 SPECIAL-NAMES.
000007     ALPHABET UTF16 FOR NATIONAL IS UTF16.
000008 DATA DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 DATA1 PIC N(10) DISPLAY.
000011 PROCEDURE DIVISION.
000012     MOVE CONVERSION "文字列" TO DATA1.
000013 END PROGRAM C5787.
```

c5787.cob 12: JMN5787I-S A constant cannot be specified in the MOVE statement when CONVERSION is specified. The MOVE statement is disabled.

## JMN5788I-S

**The alphabet name associated with the encoding cannot be described in the @1@ statement specifying COLLATING SEQUENCE. The @1@ statement is disabled.**

### Parameter Explanation

@1@ : SORT or MERGE

### Example

```
[c5788.cob]
000001 @OPTIONS ENCODE(UTF8,UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C5788.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 SPECIAL-NAMES.
000007     ALPHABET UTF16 NATIONAL UTF16
000008     .
000009 INPUT-OUTPUT SECTION.
000010 FILE-CONTROL.
000011     SELECT SMFILE ASSIGN DA-S-SM1F.
000012 DATA DIVISION.
000013 FILE SECTION.
000014     SD SMFILE LABEL RECORD IS STANDARD.
000015     01 R1.
000016     02 KEY-1 PIC X(4).
000017     02 KEY-2 PIC X(4).
000018     02 R1-1 PIC X(72).
000019 WORKING-STORAGE SECTION.
000020     77 ERR-SWT PIC 9(1).
000021 PROCEDURE DIVISION.
000022     SORT SMFILE ON ASCENDING KEY KEY-2
000023     COLLATING SEQUENCE UTF16.
000024 END PROGRAM C5788.
```

c5788.cob 22: JMN5788I-S The alphabet name associated with the encoding cannot be described in the SORT statement specifying COLLATING SEQUENCE. The SORT statement is disabled.

## JMN5789I-S

**There are multiple encodings that are mixed in the record display file definition, which is specified in printer device or display device in the destination type and printing file. Only one type of encoding can be specified in each alphanumeric data item and national item.**

### Example

```
[c5789.cob]
000001 @OPTIONS ENCODE(UTF8,UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C5789.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 SPECIAL-NAMES.
000007     ALPHABET UTF8 IS UTF8
000008     ALPHABET UTF16 FOR NATIONAL UTF16
000009     ALPHABET UTF32 FOR NATIONAL UTF32
000010     .
000011 INPUT-OUTPUT SECTION.
000012 FILE-CONTROL.
000013     SELECT F1 ASSIGN TO PRINTER.
000014 DATA DIVISION.
000015 FILE SECTION.
000016 FD F1.
000017 01 REC1.
000018     02 DATA1 PIC X(2).
000019     02 DATA2 PIC N(5) ENCODING UTF16.
000020     02 DATA3 PIC N(5) ENCODING UTF32.
000021 PROCEDURE DIVISION.
000022 END PROGRAM C5789.
```

c5789.cob 17: JMN5789I-S There are multiple encodings that are mixed in the record display file definition, which is specified in printer device or display device in the destination type and printing file. Only one type of encoding can be specified in each alphanumeric data item and national item.

## JMN5790I-S

**The FILLER cannot be omitted in the WITH FILLER phrase. FILLER is required.**

## JMN5791I-S

**It is not possible to include multiple encodings at the same time in the records of the Line file.**

### Example

```
[p5791.cob]
000001 @OPTIONS ENCODE(UTF8,UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P5791.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 SPECIAL-NAMES.
000007     ALPHABSET UTF32 FOR NATIONAL IS UTF32
000008     .
000009 INPUT-OUTPUT SECTION.
000010 FILE-CONTROL.
000011     SELECT SQFILE1 ASSIGN TO SYS001
000012     ORGANIZATION IS LINE SEQUENTIAL
000013     FILE STATUS IS WFS1.
000014 I-O-CONTROL.
000015 DATA DIVISION.
000016 FILE SECTION.
```

```

000017 FD SQFILE1.
000018 01 SQF1REC1.
000019 02 PIC N(80).
000020 01 SQF1REC2.
000021 02 PIC N(40) ENCODING UTF32.
000022 WORKING-STORAGE SECTION.
000023 01 WFS1 PIC X(2).
000024 PROCEDURE DIVISION.
000025 END PROGRAM P5791.

```

P5791.cob 17: JMN5791I-S It is not possible to include multiple encodings at the same time in the records of the Line file.

## JMN5792I-S

**The length of the national hexadecimal nonnumeric literal of encoding UTF32 must be rounded off to a multiple of 8.**

Example

```

[p5792.cob]
000001 @OPTIONS ENCODE(UTF8,UTF32)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P5792.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDN1 PIC N(2) VALUE NX"3000".
000007 END PROGRAM P5792.

```

P5792.cob 6: JMN5792I-S The length of the national hexadecimal nonnumeric literal of encoding UTF32 must be rounded off to a multiple of 8.

## 2.2.6 JMN6000 - JMN6999

6410      6413      6414      6416

### JMN6410I-U

**The program size is too large for this system. Compilation is terminated. Separate the program into smaller programs.**

### JMN6413I-U

**The program size is too large to specify the TRACE, COUNT, and/or CHECK options. The program should not be compiled with the TRACE, COUNT and/or CHECK options.**

### JMN6414I-W

**Item-name "@1@" contains a UNICODE peculiar character.**

Parameter Explanation

@1@ : Item-name

### JMN6416I-W

**"@1@" contains a UNICODE peculiar character.**

Parameter Explanation

@1@ : File name, library name or class name.

## 2.2.7 JMN9000 - JMN9999

9001	9002	9003	9004	9005	9006	9007	9008	9009	9010
9011	9012	9013	9014	9015	9016	9017	9018	9019	9020
9021	9022	9023	9024	9025	9101	9102	9103	9104	9105
9106	9107	9108	9109	9110	9911	9115	9116	9117	9118
9119	9121	9122	9123	9124	9125	9126	9127	9128	9129
9133	9151	9152	9153	9154	9161	9171	9172	9173	9180
9181	9182	9183	9191	9192	9193	9221	9242	9251	9261
9331	9332	9333	9334	9335	9341	9343	9344	9345	9346
9352	9353	9354	9361	9371	9381	9384	9391	9392	9393
9501	9502	9503	9504	9506	9507	9900	9901	9902	9903
9904	9905	9906	9907	9908	9909	9910	9911	9912	9913
9914	9915	9916	9917	9918	9919	9920	9921	9922	9923
9924	9925	9926	9927	9928	9929	9931	9932	9987	9999

### JMN9001I-W

**(@1@)@2@ statement is beyond the common range.**

#### Parameter Explanation

@1@ : SIA,STD

@2@ : CANCEL,COMPUTE,CONNECT,COPY,DELETE,DISCONNECT,ENTRY,ERASE,EVALUATE,EXAMINE,EXEC  
 AQL,EXIT PERFORM,FIND,FINISH,GENERATE,GET,GOBACK,IF DB-  
 EXCEPTION,INITIALIZE,INITIATE,MERGE,MODIFY,READY,RELEASE,REPLACE,RETURN,SEARCH,SEARCH  
 ALL,SORT,START,STORE,STRING,TERMINATE,TRANSACTION,UNLOCK,UNSTRING,USE,USE FOR DB-  
 EXCEPTION,USE FOR DEBUGGING,USE FOR DEAD-LOCK

#### Example

```
[C9001.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9001.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01.
000008 02 REC-1 PIC 9(4).
000009 02 REC-2 PIC 9(4).
000010 02 REC-3 PIC 9(4).
000011 PROCEDURE DIVISION.
000012 P-START.
000013 COMPUTE REC-3 = REC-1 + REC-2.
000014 STOP RUN.
```

C9001.cob 13: JMN9001I-W (STD)COMPUTE statement is beyond the common range.

### JMN9002I-W

**(@1@)@2@ clause is beyond the common range.**

#### Parameter Explanation

@1@ : SIA,STD

@2@ : ALTERNATE RECORD KEY,APPLY MULTICONVERSATION-MODE,APPLY SAVED-AREA,APPLY WITH-  
 ONLY,ASCENDING/DESCENDING KEY,BY VALUE,CHARACTER TYPE,CODE-SET,COLUMN

NUMBER,COMMON,CONTROL RECORD,CONVERTING,CORRESPONDING,CRT STATUS,CURSOR,DEPENDING ON,DESTINATION-3,END-ACCEPT,END-CALL,END-DISPLAY,END-KEY,END-OF-PAGE,EXTEND,EXTERNAL,FIRST RECORD,FORMAT,GLOBAL,GROUP,INITIAL,INVALID KEY,KEY,LINAGE,LOCK MODE,MULTIPLE FILE TAPE,NEXT,NOT AT END-OF PAGE,NOT INVALID KEY,NOT ON EXCEPTION,ON EXCEPTION,ON OVERFLOW,OPTIONAL,ORGANIZATION IS RELATIVE,ORGANIZATION IS INDEXED,PADDING CHARACTER,PASSWORD,POSITIONING POINTER,POSITIONING UNIT,PRINTING MODE,PRINTING POSITION,PROCESSING CONTROL,RECORD DELIMITER,RECORD KEY,RECORD IS VARYING IN SIZE,RECORDING MODE,REMAINDER,REPLACING,RERUN,RESERVE AREA,REVERSED,REVERSED ORDER,REPORT,SAME RECORD AREA,SAME SORT-MERGE AREA,SEGMENT-LIMIT,SELECT,SOURCE,SYMBOLIC CONSTANT,SYMBOLIC CHARACTERS,TO TEST OR PERFORM,TEST AFTER,TEST BEFORE,TYPE,VARYING,WITH DEBUGGING MODE,WITH DUPLICATE,WITH LOCK,WITH NO ADVANCING,WITH NO LIMIT,WITH NO LOCK,WITH NO REWIND

### Example

```
[C9002.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9002.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01.
000008 02 REC-NO PIC X(5).
000009 02 REC-NAME PIC X(20).
000010 02 REC-DATA PIC X(50).
000011 01 REC02.
000012 02 REC-NO PIC X(5).
000013 02 REC-NAME PIC X(20).
000014 02 REC-DATA PIC X(50).
000015 PROCEDURE DIVISION.
000016 P-START.
000017 MOVE CORRESPONDING REC01 TO REC02.
000018 STOP RUN.
```

C9002.cob 17: JMN9002I-W (STD)CORRESPONDING clause is beyond the common range.

### JMN9003I-W

**(@1@)Function-name in @2@ statement is beyond the common range.**

#### Parameter Explanation

@1@ : SIA,STD

@2@ : ACCEPT,DISPLAY

### Example

```
[C9003.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9003.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC X(80).
000008 PROCEDURE DIVISION.
000009 P-START.
000010 ACCEPT REC01 FROM SYSIN.
000011 STOP RUN.
```

C9003.cob 10: JMN9003I-W (STD)Function-name in ACCEPT statement is beyond the common range.



## JMN9004I-W

(@1@)Mnemonic-name in @2@ statement is beyond the common range.

### Parameter Explanation

@1@ : SIA,STD

@2@ : ACCEPT,DISPLAY,MERGE,SORT,WRITE

### Example

```
[C9004.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9004.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 SPECIAL-NAMES.
000007 SYSIN IS NYURYOKU.
000008 DATA DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 REC01 PIC X(80).
000011 PROCEDURE DIVISION.
000012 P-START.
000013 ACCEPT REC01 FROM NYURYOKU.
000014 STOP RUN.
```

C9004.cob 13: JMN9004I-W (STD)Mnemonic-name in ACCEPT statement is beyond the common range.

## JMN9005I-W

(@1@)Multiple file name in @2@ statement is beyond the common range.

### Parameter Explanation

@1@ : STD

@2@ : USE

### Example

```
[C9005.cob]
000001 @OPTIONS FLAGSW(STDI)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9005.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT IN-FILE ASSIGN TO INFL1.
000008 SELECT OUT-FILE ASSIGN TO INFL2.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD IN-FILE.
000012 01 INREC PIC X(80).
000013 FD OUT-FILE.
000014 01 OTREC PIC X(80).
000015 PROCEDURE DIVISION.
000016 DECLARATIVES.
000017 USE-PROCESS SECTION.
000018 USE AFTER STANDARD
000019 EXCEPTION PROCEDURE ON IN-FILE
000020 OUT-FILE.
000021 END DECLARATIVES.
000022 P-START.
000023 STOP RUN.
```

C9005.cob 18: JMN9005I-W (STD)Multiple file name in USE statement is beyond the common range.

## JMN9006I-W

**(@1@)Identifier in @2@ statement is beyond the common range.**

Parameter Explanation

@1@ : STD

@2@ : CALL

Example

```
[C9006.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9006.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01.
000008 02 REC-1 PIC 9(4).
000009 02 REC-2 PIC 9(4).
000010 02 REC-3 PIC 9(4).
000011 01 PGMNM PIC X(8).
000012 PROCEDURE DIVISION.
000013 P-START.
000014 CALL PGMNM USING REC01.
000015 STOP RUN.
```

C9006.cob 14: JMN9006I-W (STD)Identifier in CALL statement is beyond the common range.

## JMN9007I-W

**(@1@)Data-name in @2@ statement which defined in screen section is beyond the common range.**

Parameter Explanation

@1@ : SIA,STD

@2@ : ACCEPT,DISPLAY

Example

```
[C9007.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9007.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 WBUF PIC X(100).
000008 SCREEN SECTION.
000009 01 REC01.
000010 02 REC-NO PIC X(5) FROM WBUF.
000011 02 REC-NAME PIC X(20) FROM WBUF.
000012 02 REC-DATA PIC X(50) FROM WBUF.
000013 PROCEDURE DIVISION.
000014 P-START.
000015 DISPLAY REC-NO.
000016 DISPLAY REC-NAME.
000017 DISPLAY REC-DATA.
000018 STOP RUN.
```

C9007.cob 15: JMN9007I-W (STD)Data-name in DISPLAY statement which defined in screen section is beyond the common range.

C9007.cob 16: JMN9007I-W (STD)Data-name in DISPLAY statement which defined in screen section is beyond the common range.

C9007.cob 17: JMN9007I-W (STD)Data-name in DISPLAY statement which defined in screen section is beyond the common range.

## JMN9008I-W

**(@1 @)Source reference format (free) is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

### Example

```
[C9008.cob]
@OPTIONS SRF(FREE),FLAGSW(SIA)
PROGRAM-ID.      C9008.
ENVIRONMENT      DIVISION.
DATA              DIVISION.
WORKING-STORAGE SECTION.
01 FOO01.
02 FOO-NO        PIC X(5).
02 FOO-NAME      PIC X(20).
02 FOO-DATA      PIC X(50).
PROCEDURE        DIVISION.
P-START.
STOP RUN.
```

C9008.cob 0: JMN9008I-W (SIA)Source reference format (free) is beyond the common range.

## JMN9009I-W

**(@1 @)@2@ paragraph in identification division is beyond the common range.**

### Parameter Explanation

@1@ : STD

@2@ : AUTHOR,INSTALATION,DATE-WRITTEN,DATE-COMPILED,SECURITY

### Example

```
[C9009.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C9009.
000004 DATE-COMPILED.   22ND AUG 1988.
000005 ENVIRONMENT      DIVISION.
000006 DATA              DIVISION.
000007 PROCEDURE        DIVISION.
000008 P-START.
000009          STOP RUN.
```

C9009.cob 4: JMN9009I-W (STD)DATE-COMPILED paragraph in identification division is beyond the common range.

## JMN9010I-W

**(@1 @)Continuation of cobol words, numeric literals and picture character-strings is beyond the common range.**

### Parameter Explanation

@1@ : STD

## Example

```
[C9010.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9010.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 FILE SECTION.
000007 WORKING-STORAGE SECTION.
000008 01 IN-REC.
000009 02 RECI1 PIC X(80
000010- ).
000011 01 OT-R
000012- EC.
000013 02 RECO1 PIC X(80).
000014 PROCEDURE DIVISION.
000015 P-START.
000016 STOP RUN.
```

C9010.cob 10: JMN9010I-W (STD)Continuation of cobol words, numeric literals and picture character-strings is beyond the common range.

C9010.cob 12: JMN9010I-W (STD)Continuation of cobol words, numeric literals and picture character-strings is beyond the common range.

## JMN9011I-W

**(@1@)This function-name is beyond the common range.**

### Parameter Explanation

@1@ : SIA

### Example

```
[C9011.cob]
000001 @OPTIONS FLAGSW(SIA)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9011.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 SPECIAL-NAMES.
000007 SYSIPT IS I.
000008 DATA DIVISION.
000009 WORKING-STORAGE SECTION.
000010 PROCEDURE DIVISION.
000011 STOP RUN.
```

C9011.cob 7: JMN9011I-W (SIA)This function-name is beyond the common range.

## JMN9012I-W

**(@1@)Special register @2@ is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

@2@ : EDIT-COLOR,EDIT-CURSOR,EDIT-MODE,EDIT-OPTION,EDIT-STATUS,FCOM,LINE-COUNTER,LINAGE-COUNTER,PAGE-COUNTER,PROGRAM-STATUS,RETURN-CODE,SHIFT-IN,SHIFT-OUT,SORT-MESSAGE,SORT-MODE-SIZE,SORT-STATUS/SORT-RETURN,TALLY,WHEN-COMPILED

## Example

```
[C9012.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9012.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007     SELECT IN-FILE ASSIGN TO INFL.
000008     SELECT OT-FILE ASSIGN TO OTFL.
000009     SELECT SORT-FILE ASSIGN TO STFL.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD IN-FILE.
000013     01 IN-REC.
000014         02 REC01 PIC X(5).
000015         02 REC02 PIC X(50).
000016 FD OT-FILE.
000017     01 OT-REC.
000018         02 REC01 PIC X(5).
000019         02 REC02 PIC X(50).
000020 SD SORT-FILE.
000021     01 ST-REC.
000022         02 RECKEY PIC X(5).
000023         02 REC02 PIC X(50).
000024 WORKING-STORAGE SECTION.
000025 PROCEDURE DIVISION.
000026 P-START.
000027     SORT SORT-FILE ASCENDING KEY RECKEY
000028     USING IN-FILE GIVING OT-FILE.
000029     IF SORT-STATUS NOT = ZERO THEN
000030         DISPLAY "*** ERROR IN SORT STATEMANT ***"
000031     END-IF.
000032     STOP RUN.
```

C9012.cob 29: JMN9012I-W (STD)Special register SORT-STATUS is beyond the common range.

## JMN9013I-W

**(@1@)National literal is beyond the common range.**

### Parameter Explanation

@1@ : STD

### Example

```
[C9013.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9013.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE DIVISION.
000008 P-START.
000009     DISPLAY NC" N A T I O N A L ".
000010     STOP RUN.
```

C9013.cob 9: JMN9013I-W (STD)National literal is beyond the common range.

## JMN9014I-W

---

**(@1@)Floating-point literal is beyond the common range.**

Parameter Explanation

@1@ : SIA,STD

Example

```
[C9014.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9014.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE DIVISION.
000008 P-START.
000009 DISPLAY 3.14159E+3.
000010 STOP RUN.
```

C9014.cob 9: JMN9014I-W (STD)Floating-point literal is beyond the common range.

**JMN9015I-W**

---

**(@1@)Bool literal is beyond the common range.**

Parameter Explanation

@1@ : SIA,STD

Example

```
[C9015.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9015.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE DIVISION.
000008 P-START.
000009 DISPLAY B"11111111".
000010 STOP RUN.
```

C9015.cob 9: JMN9015I-W (STD)Bool literal is beyond the common range.

**JMN9016I-W**

---

**(@1@)Number of dimensions for subscripting is beyond the common range.**

Parameter Explanation

@1@ : STD

Example

```
[C9016.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9016.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01.
000008 02 REC02 OCCURS 3 TIMES.
000009 03 REC03 OCCURS 3 TIMES.
```

```

000010      04 REC04 OCCURS 3 TIMES.
000011      05 REC05 OCCURS 3 TIMES.
000012      06 REC06 PIC 9(2).
000013 PROCEDURE DIVISION.
000014 P-START.
000015      MOVE ZERO TO REC06(1 1 1 1).
000016      STOP RUN.

```

C9016.cob 15: JMN9016I-W (STD)Number of dimensions for subscripting is beyond the common range.

## JMN9017I-W

### **(@1@)Hexadecimal nonnumeric literal is beyond the common range.**

#### Parameter Explanation

@1@ : STD

#### Example

```

[C9017.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C9017.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007  01 REC01.
000008      02 REC02 PIC X VALUE X"0A".
000009      02 REC03 PIC X.
000010 PROCEDURE DIVISION.
000011 P-START.
000012      MOVE X"0C" TO REC03.
000013      STOP RUN

```

C9017.cob 12: JMN9017I-W (STD)Hexadecimal nonnumeric literal is beyond the common range.

## JMN9018I-W

### **(@1@)Level number 66 is beyond the common range.**

#### Parameter Explanation

@1@ : STD

#### Example

```

[C9018.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C9018.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007  01 REC01.
000008      02 REC-A PIC X(4).
000009      02 REC-B PIC X(4).
000010      02 REC-C PIC X(4).
000011      66 REC-A RENAMES REC-B THRU REC-C.
000012 PROCEDURE DIVISION.
000013 P-START.
000014      STOP RUN.

```

C9018.cob 11: JMN9018I-W (STD)Level number 66 is beyond the common range.

## JMN9019I-W

**(@1@)Level number 88 is beyond the common range.**

Parameter Explanation

@1@ : STD

Example

```
[C9019.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9019.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01.
000008 02 REC-NO PIC 9(3).
000009 88 REC-88 VALUE 99.
000010 PROCEDURE DIVISION.
000011 P-START.
000012 STOP RUN.
```

C9019.cob 9: JMN9019I-W (STD)Level number 88 is beyond the common range.

## JMN9020I-W

**(@1@)Symbolic character or literal or figurative constant with 'ALL' is beyond the common range.**

Parameter Explanation

@1@ : STD

Example

```
[C9020.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9020.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC.
000008 02 REC01 PIC 99V99.
000009 02 REC02 PIC X(10) VALUE ALL "A".
000010 PROCEDURE DIVISION.
000011 P-START.
000012 MOVE ALL "99" TO REC01.
000013 STOP RUN.
```

C9020.cob 9: JMN9020I-W (STD)Symbolic character or literal or figurative constant with 'ALL' is beyond the common range.

C9020.cob 12: JMN9020I-W (STD)Symbolic character or literal or figurative constant with 'ALL' is beyond the common range.

## JMN9021I-W

**(@1@)Reference modifier is beyond the common range.**

Parameter Explanation

@1@ : STD



## Example

```
[C9021.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9021.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01.
000008 02 REC-NO PIC X(10).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 MOVE "ABC" TO REC-NO(1:3).
000012 STOP RUN.
```

C9021.cob 11: JMN9021I-W (STD)Reference modifier is beyond the common range.

## JMN9022I-W

**(@1@)Qualification of data names is beyond the common range.**

### Parameter Explanation

@1@ : STD

## Example

```
[C9022.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9022.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 OUT-REC.
000008 02 REC01 PIC X.
000009 PROCEDURE DIVISION.
000010 P-START.
000011 MOVE "0" TO REC01 OF OUT-REC.
000012 STOP RUN.
```

C9022.cob 11: JMN9022I-W (STD)Qualification of data names is beyond the common range.

## JMN9023I-W

**(@1@)National character is beyond the common range.**

### Parameter Explanation

@1@ : STD

## JMN9024I-W

**(@1@)In-line comment in this program is beyond the common range.**

### Parameter Explanation

@1@ : STD

## Example

```
[C9024.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION. *> In-line Comment
000003 PROGRAM-ID. C9024.
```

```

000004 ENVIRONMENT      DIVISION.
000005 DATA             DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01  A             PIC X(80).  *> In-line Comment
000008 PROCEDURE        DIVISION.
000009 P-START.
000010     MOVE SPACE TO A.      *> In-line Comment
000011     STOP RUN.

```

C9024.cob 0: JMN9024I-W (STD)In-line comment in this program is beyond the common range.

## JMN9025I-W

**(@1@)Alphabetic-lower contained in '@2@' is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

@2@ : An user-definition word including lowercase letter

### Example

```

[C9025.cob]
000001 @OPTIONS FLAGSW(SIA),ALPHAL
000002 IDENTIFICATION      DIVISION.
000003 PROGRAM-ID.        C9025.
000004 ENVIRONMENT        DIVISION.
000005 DATA               DIVISION.
000006 WORKING-STORAGE    SECTION.
000007 01  lowercase      PIC X(5).
000008 01  ABCdEFG        PIC X(5).
000009 PROCEDURE          DIVISION.
000010 P-START.
000011     MOVE SPACE TO lowercase.
000012     STOP RUN.

```

C9025.cob 7: JMN9025I-W (SIA)Alphabetic-lower contained in 'lowercase' is beyond the common range.

C9025.cob 8: JMN9025I-W (SIA)Alphabetic-lower contained in 'ABCdEFG' is beyond the common range.

C9025.cob 11: JMN9025I-W (SIA)Alphabetic-lower contained in 'lowercase' is beyond the common range.

## JMN9101I-W

**(@1@)@2@ in ALPHABET clause is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

@2@ : EBCDIC,STANDARD-2

## JMN9102I-W

**(@1@)Function name in ALPHABET clause is beyond the common range.**

### Parameter Explanation

@1@ : SIA

### Example

```

[C9102.cob]
000001 @OPTIONS FLAGSW(SIA)
000002 IDENTIFICATION      DIVISION.
000003 PROGRAM-ID.        C9102.

```

```

000004 ENVIRONMENT      DIVISION.
000005 CONFIGURATION   SECTION.
000006 SPECIAL-NAMES.
000007     ALPHABET FUGOU IS CODE-0.
000008 DATA           DIVISION.
000009 PROCEDURE       DIVISION.
000010 P-START.
000011     STOP RUN.

```

C9102.cob 7: JMN9102I-W (SIA)Function name in ALPHABET clause is beyond the common range.

## JMN9103I-W

**(@1@)Literal in ALPHABET clause is beyond the common range.**

### Parameter Explanation

@1@ : STD

### Example

```

[C9103.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION  DIVISION.
000003 PROGRAM-ID.     C9103.
000004 ENVIRONMENT     DIVISION.
000005 CONFIGURATION   SECTION.
000006 SPECIAL-NAMES.
000007     ALPHABET FUGOU IS 1.
000008 DATA           DIVISION.
000009 PROCEDURE       DIVISION.
000010 P-START.
000011     STOP RUN.

```

C9103.cob 7: JMN9103I-W (STD)Literal in ALPHABET clause is beyond the common range.

## JMN9104I-W

**(@1@)Mnemonic-name of CHARACTER TYPE clause is beyond the common range.**

### Parameter Explanation

@1@ : SIA

### Example

```

[C9104.cob]
000001 @OPTIONS FLAGSW(SIA)
000002 IDENTIFICATION  DIVISION.
000003 PROGRAM-ID.     C9104.
000004 ENVIRONMENT     DIVISION.
000005 CONFIGURATION   SECTION.
000006 SPECIAL-NAMES.
000007     F0202 IS PRINT.
000008 DATA           DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 REC01 PIC N(4) CHARACTER TYPE IS MODE-3 BY PRINT.
000011 PROCEDURE       DIVISION.
000012 P-START.
000013     STOP RUN.

```

C9104.cob 10: JMN9104I-W (SIA)Mnemonic-name of CHARACTER TYPE clause is beyond the common range.

## JMN9105I-W

---

**(@1@)Nested IF statement is beyond the common range.**

Parameter Explanation

@1@ : STD

Example

```
[C9105.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9105.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC 9(4).
000008 01 REC02 PIC 9(4).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 IF REC01 = LOW-VALUE THEN
000012 DISPLAY "LOW-VALUE"
000013 ELSE
000014 IF REC01 = HIGH-VALUE THEN
000015 DISPLAY "HIGH-VALUE"
000016 END-IF.
000017 STOP RUN.
```

C9105.cob 11: JMN9105I-W (STD)Nested IF statement is beyond the common range.

**JMN9106I-W**

---

**(@1@)Multiple literal of VALUE clause is beyond the common range.**

Parameter Explanation

@1@ : SIA,STD

Example

```
[C9106.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9106.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01.
000008 02 REC-NO PIC 9(3).
000009 88 REC-88 VALUE 3
000010 5
000011 7.
000012 PROCEDURE DIVISION.
000013 P-START.
000014 STOP RUN.
```

C9106.cob 9: JMN9106I-W (STD)Multiple literal of VALUE clause is beyond the common range.

**JMN9107I-W**

---

**(@1@)'Integer-1 THRU integer-2' of VALUE clause is beyond the common range.**

Parameter Explanation

@1@ : SIA,STD

## Example

```
[C9107.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9107.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC 9(3).
000008 88 REC02 VALUE IS 0 THRU 3.
000009 PROCEDURE DIVISION.
000010 P-START.
000011 STOP RUN.
```

C9107.cob 8: JMN9107I-W (STD)'Integer-1 THRU integer-2' of VALUE clause is beyond the common range.

## JMN9108I-W

**(@1@)Multiple 'integer-1 THRU integer-2' of VALUE clause is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

## Example

```
[C9108.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9108.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC 9(3).
000008 88 REC02 VALUE IS 0 THRU 3
000009 4 THRU 6.
000010 PROCEDURE DIVISION.
000011 P-START.
000012 STOP RUN.
```

C9108.cob 8: JMN9108I-W (STD)Multiple 'integer-1 THRU integer-2' of VALUE clause is beyond the common range.

## JMN9109I-W

**(@1@)printing-mode-name in CHARACTER TYPE clause is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

## Example

```
[C9109.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9109.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 SPECIAL-NAMES.
000007 PRINTING MODE INJI IS IN SIZE 3.0 POINT.
000008 DATA DIVISION.
000009 WORKING-STORAGE SECTION.
000010 01 JPN-CAR PIC N(5) CHARACTER TYPE IS INJI.
000011 PROCEDURE DIVISION.
```

```
000012 P-START.  
000013     STOP RUN.
```

C9109.cob 10: JMN9109I-W (STD)printing-mode-name in CHARACTER TYPE clause is beyond the common range.

## JMN9110I-W

**(@1@)VALUE OF data-name is beyond the common range.**

### Parameter Explanation

@1@ : STD

### Example

```
[C9110.cob]  
000001 @OPTIONS FLAGSW(STD)  
000002 IDENTIFICATION DIVISION.  
000003 PROGRAM-ID.      C9110.  
000004 ENVIRONMENT     DIVISION.  
000005 INPUT-OUTPUT    SECTION.  
000006 FILE-CONTROL.  
000007     SELECT IN-FILE ASSIGN TO INFL.  
000008 DATA             DIVISION.  
000009 FILE             SECTION.  
000010 FD  IN-FILE     VALUE OF REC1 IS REC2.  
000011  01  REC1      PIC X(80).  
000012  01  REC2      PIC X(80).  
000013 PROCEDURE      DIVISION.  
000014 P-START.  
000015     STOP RUN.
```

C9110.cob 10: JMN9110I-W (STD)VALUE OF data-name is beyond the common range.

## JMN9111I-W

**(@1@)Nested REDEFINES clause is beyond the common range.**

### Parameter Explanation

@1@ : STD

### Example

```
[C9111.cob]  
000001 @OPTIONS FLAGSW(STD)  
000002 IDENTIFICATION DIVISION.  
000003 PROGRAM-ID.      C9111.  
000004 ENVIRONMENT     DIVISION.  
000005 DATA             DIVISION.  
000006 WORKING-STORAGE SECTION.  
000007  01  IN-REC.  
000008     02  RECI1     PIC X(80).  
000009     02  RECI2     REDEFINES RECI1.  
000010         03  RECI21  PIC X(40).  
000011         03  RECI22  REDEFINES RECI21.  
000012             04  RECI221 PIC X(20).  
000013             04  RECI222 PIC X(20).  
000014         03  RECI23  PIC X(40).  
000015 PROCEDURE      DIVISION.  
000016 P-START.  
000017     STOP RUN.
```

C9111.cob 11: JMN9111I-W (STD)Nested REDEFINES clause is beyond the common range.

## JMN9115I-W

**(@1@)@2@ in PICTURE clause is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

@2@ : N,1,E

### Example

```
[C9115.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9115.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC N(5).
000008 PROCEDURE DIVISION.
000009 P-START.
000010 STOP RUN.
```

C9115.cob 7: JMN9115I-W (STD)N in PICTURE clause is beyond the common range.

## JMN9116I-W

**(@1@)@2@ in USAGE clause is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

@2@ :

COMPUTATIONAL-1,COMPUTATIONAL-2,COMPUTATIONAL-3,COMPUTATIONAL-4,COMPUTATIONAL-5,BIT,DISPLAY-1,POINTER

### Example

```
[C9116.cob]
000001 @OPTIONS FLAGSW(SIA)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9116.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 USAGE COMPUTATIONAL-1.
000008 PROCEDURE DIVISION.
000009 P-START.
000010 STOP RUN.
```

C9116.cob 7: JMN9116I-W (SIA)COMPUTATIONAL-1 in USAGE clause is beyond the common range.

## JMN9117I-W

**(@1@)CONSTANT SECTION is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

### Example

```
[C9117.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
```

```

000003 PROGRAM-ID.      C9117.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 CONSTANT        SECTION.
000007 01 ASTER        PIC X(12) VALUE "**".
000008 PROCEDURE       DIVISION.
000009 P-START.
000010 STOP RUN.

```

C9117.cob 7: JMN9117I-W (STD)CONSTANT SECTION is beyond the common range.

## JMN9118I-W

**(@1@)@2@ in USE statement is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

@2@ : GLOBAL

### Example

```

[C9118.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C9118.
000004 ENVIRONMENT     DIVISION.
000005 INPUT-OUTPUT    SECTION.
000006 FILE-CONTROL.
000007     SELECT SEQFIL ASSIGN TO SYS006
000008     ORGANIZATION IS SEQUENTIAL.
000009 DATA            DIVISION.
000010 FILE             SECTION.
000011 FD SEQFIL.
000012 01 SEQREC      PIC X(80).
000013 PROCEDURE     DIVISION.
000014 DECLARATIVES.
000015 FILEERR SECTION. USE GLOBAL AFTER STANDARD ERROR PROCEDURE INPUT
000016     GO ERR-EXIT.
000017 END DECLARATIVES.
000018     OPEN INPUT SEQFIL.
000019     READ SEQFIL.
000020     CLOSE SEQFIL.
000021 ERR-EXIT.

```

C9118.cob 15: JMN9118I-W (STD)GLOBAL in USE statement is beyond the common range.

## JMN9119I-W

**(@1@)BASED-STORAGE SECTION is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

### Example

```

[C9119.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C9119.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 BASED-STORAGE   SECTION.

```



```

000007 01 A          PIC 9(2).
000008 WORKING-STORAGE SECTION.
000009 01 PTR        POINTER.
000010 PROCEDURE     DIVISION.
000011 P-START.
000012     MOVE ZERO TO PTR->A.
000013     STOP RUN.

```

C9119.cob 6: JMN9119I-W (STD)BASED-STORAGE SECTION is beyond the common range.

## JMN9121I-W

**(@1@)Boolean operator @2@ is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

@2@ : AND,OR,EXOR,NOT

### Example

```

[C9121.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.     C9121.
000004 ENVIRONMENT     DIVISION.
000005 DATA           DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01        PIC 1(4) BIT.
000008 PROCEDURE     DIVISION.
000009 P-START.
000010     COMPUTE REC01 = REC01 AND B"1000".
000011     STOP RUN.

```

C9121.cob 10: JMN9121I-W (STD)Boolean operator B-AND is beyond the common range.

## JMN9122I-W

**(@1@)Class condition @2@ is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

@2@ : BOOLEAN,KANJI,DBCS

### Example

```

[C9122.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.     C9122.
000004 ENVIRONMENT     DIVISION.
000005 DATA           DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01        PIC X(3).
000008 PROCEDURE     DIVISION.
000009 P-START.
000010     IF REC01 IS BOOLEAN THEN
000011         DISPLAY "*** TRUE ***"
000012     END-IF.
000013     STOP RUN.

```

C9122.cob 10: JMN9122I-W (STD)Class condition BOOLEAN is beyond the common range.

## JMN9123I-W

---

**(@1@)Binary operator or unary operator @2@ is beyond the common range.**

### Parameter Explanation

@1@ : STD

@2@ : +,-,\*,/,\*\*

### Example

```
[C9123.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C9123.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007   01 REC01       PIC S9(4).
000008   01 REC02       PIC S9(4).
000009   01 REC03       PIC S9(4).
000010 PROCEDURE       DIVISION.
000011 P-START.
000012   COMPUTE REC01 = REC02 + REC03.
000013   STOP RUN.
```

C9123.cob 12: JMN9123I-W (STD)Binary operator or unary operator + is beyond the common range.

## JMN9124I-W

---

**(@1@)Sign condition is beyond the common range.**

### Parameter Explanation

@1@ : STD

### Example

```
[C9124.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C9124.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007   01 REC01       PIC S9(2) VALUE 0.
000008   01 REC02       PIC S9(2) VALUE 0.
000009 PROCEDURE       DIVISION.
000010 P-START.
000011   IF REC01 IS NOT NEGATIVE
000012     MOVE REC01 TO REC02
000013   END-IF.
000014   STOP RUN.
```

C9124.cob 11: JMN9124I-W (STD)Sign condition is beyond the common range.

## JMN9125I-W

---

**(@1@)Logical operator or unary operator @2@ is beyond the common range.**

### Parameter Explanation

@1@ : STD

@2@ : AND,OR,NOT

## Example

```
[C9125.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9125.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC S9(2) VALUE 0.
000008 01 REC02 PIC S9(2) VALUE 0.
000009 01 REC03 PIC S9(2) VALUE 0.
000010 PROCEDURE DIVISION.
000011 P-START.
000012 IF REC01 IS GREATER REC02 AND
000013 NOT REC03 IS GREATER REC01 THEN
000014 MOVE 1 TO REC02.
000015 STOP RUN.
```

C9125.cob 12: JMN9125I-W (STD)Logical operator or unary operator AND is beyond the common range.

C9125.cob 12: JMN9125I-W (STD)Logical operator or unary operator NOT is beyond the common range.

## JMN9126I-W

**(@1@)Abbreviated combination condition is beyond the common range.**

### Parameter Explanation

@1@ : STD

### Example

```
[C9126.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9126.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC S9(2) VALUE 0.
000008 01 REC02 PIC S9(2) VALUE 0.
000009 01 REC03 PIC S9(2) VALUE 0.
000010 PROCEDURE DIVISION.
000011 P-START.
000012 IF REC01 = LOW-VALUE OR HIGH-VALUE THEN
000013 MOVE 1 TO REC02.
000014 STOP RUN.
```

C9126.cob 12: JMN9126I-W (STD)Abbreviated combination condition is beyond the common range.

## JMN9127I-W

**(@1@)Complex-condition is beyond the common range.**

### Parameter Explanation

@1@ : STD

### Example

```
[C9127.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9127
```

```

000004 ENVIRONMENT      DIVISION.
000005 DATA             DIVISION.
000006 WORKING-STORAGE SECTION.
000007   01  REC1                PIC 9(8).
000008   01  REC2                PIC 9(8).
000009   01  REC3                PIC 9(8).
000010 PROCEDURE         DIVISION.
000011 P-START.
000012   IF REC1 = 0 AND NOT REC2 = REC3
000013   THEN CONTINUE.
000014   STOP RUN.

```

C9127.cob 12: JMN9127I-W (STD)Complex-condition is beyond the common range.

C9127.cob 12: JMN9127I-W (STD)Complex-condition is beyond the common range.

## JMN9128I-W

**(@1@)Condition-name condition is beyond the common range.**

### Parameter Explanation

@1@ : STD

### Example

```

[C9128.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION  DIVISION.
000003 PROGRAM-ID.     C9128.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007   01  SIGNAL      PIC X.
000008   88  BLUE       VALUE "B".
000009 PROCEDURE         DIVISION.
000010   MOVE "B" TO SIGNAL.
000011   IF BLUE THEN
000012   DISPLAY "*** GO ***"
000013   END-IF.
000014   STOP RUN.

```

C9128.cob 11: JMN9128I-W (STD)Condition-name condition is beyond the common range.

## JMN9129I-W

**(@1@)Concatenation expression is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

### Example

```

[C9129.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION  DIVISION.
000003 PROGRAM-ID.     C9129.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007   01  A            PIC X(2).
000008 PROCEDURE         DIVISION.
000009 P-START.
000010   IF A = SPACE & "AA"

```

```

000011     THEN
000012         DISPLAY "*** A IS SPACE ***"
000013     END-IF.
000014     STOP RUN.

```

C9129.cob 10: JMN9129I-W (STD)Concatenation expression is beyond the common range.

### JMN9133I-W

**(@1@)@2@ in ACCEPT statement is beyond the common range.**

#### Parameter Explanation

@1@ : STD

@2@ : DATE,DAY,DAY-OF-WEEK

#### Example

```

[C9133.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C9133.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01        PIC 9(5).
000008 PROCEDURE       DIVISION.
000009 P-START.
000010     ACCEPT REC01 FROM DAY-OF-WEEK.
000011     STOP RUN.

```

C9133.cob 10: JMN9133I-W (STD)DAY-OF-WEEK in ACCEPT statement is beyond the common range.

### JMN9151I-W

**(@1@)Multiple procedure-name of ALTER statement is beyond the common range.**

#### Parameter Explanation

@1@ : SIA,STD

#### Example

```

[C9151.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C9151.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 PROCEDURE       DIVISION.
000007 P-START.
000008     ALTER NUMBER1 TO PROCEED TO NUMBER2,
000009         NUMBER2 TO PROCEED TO P-START.
000010     STOP RUN.
000011 NUMBER1.
000012     GO TO.
000013 NUMBER2.
000014     GO TO.

```

C9151.cob 8: JMN9151I-W (STD)Multiple procedure-name of ALTER statement is beyond the common range.

### JMN9152I-W

**(@1@)GO TO statement omitted procedure name is beyond the common range.**

## Parameter Explanation

@1@ : STD

## Example

```
[C9152.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9152.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC 9(5).
000008 PROCEDURE DIVISION.
000009 P-START.
000010 ALTER P-START1 TO P-START2.
000011 P-START1.
000012 GO TO.
000013 P-START2.
000014 STOP RUN.
```

C9152.cob 12: JMN9152I-W (STD)GO TO statement omitted procedure name is beyond the common range.

## JMN9153I-W

**(@1 @)@2@ special register specified of IF statement is beyond the common range.**

## Parameter Explanation

@1@ : SIA,STD

@2@ : ADDRESS OF

## Example

```
[C9153.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9153.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC 9(5).
000008 LINKAGE SECTION.
000009 01 ZPTR0 POINTER.
000010 PROCEDURE DIVISION USING ZPTR0.
000011 P-START.
000012 IF ADDRESS OF ZPTR0 = NULL THEN
000013 MOVE 00001 TO REC01
000014 END-IF.
000015 STOP RUN.
```

C9153.cob 12: JMN9153I-W (STD)ADDRESS OF special register specified of IF statement is beyond the common range.

## JMN9154I-W

**(@1 @)Conditional statement in IF statement is beyond the common range.**

## Parameter Explanation

@1@ : STD

## Example

```
[C9154.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9154.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC 9(4).
000008 01 REC02 PIC 9(4).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 IF REC01 = LOW-VALUE THEN
000012 EVALUATE REC02
000013 WHEN 0
000014 DISPLAY "REC02=0"
000015 WHEN OTHER
000016 DISPLAY "REC02=" REC02
000017 END-EVALUATE
000018 END-IF.
000019 STOP RUN.
```

C9154.cob 12: JMN9154I-W (STD)Conditional statement in IF statement is beyond the common range.

## JMN9161I-W

**(@1@)@2@ in INITIALIZE statement is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

@2@ : EGCS,DBCS,BOOLEAN,NATIONAL,NATIONAL-EDIT

## Example

```
[C9161.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9161.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC N(4).
000008 01 REC02 PIC N(4).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 INITIALIZE REC01 REPLACING
000012 NATIONAL DATA BY REC02.
000013 STOP RUN.
```

C9161.cob 11: JMN9161I-W (STD)NATIONAL in INITIALIZE statement is beyond the common range.

## JMN9171I-W

**(@1@)De-edit of numeric edited item in MOVE statement is beyond the common range.**

### Parameter Explanation

@1@ : SIA

## Example

```
[P9171.cob]
000001 @OPTIONS FLAGSW(STD)M
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9171.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC 9,999.
000008 01 REC02 PIC 9(4).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 MOVE REC01 TO REC02.
000012 STOP RUN.
```

P9171.cob 11: JMN9171I-W (STD)De-edit of numeric edited item in MOVE statement is beyond the common range.

## JMN9172I-W

**(@1@)National edited item moved to national edited item in MOVE statement is beyond the common range.**

### Parameter Explanation

@1@ : SIA

## Example

```
[P9172.cob]
000001 @OPTIONS FLAGSW(STD)H
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9172.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC NBNB.
000008 01 REC02 PIC N(3)B(3).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 MOVE REC01 TO REC02.
000012 STOP RUN.
```

P9172.cob 11: JMN9172I-W (STD)National edited item moved to national edited item in MOVE statement is beyond the common range.

## JMN9173I-W

**(@1@)Numeric edited item moved to numeric edited item in MOVE statement is beyond the common range.**

### Parameter Explanation

@1@ : STD

## Example

```
[P9173.cob]
000001 @OPTIONS FLAGSW(STD)M
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9173.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC 9,999.
```



```

000008 01 REC02 PIC 99,99.
000009 PROCEDURE DIVISION.
000010 P-START.
000011 MOVE REC01 TO REC02.
000012 STOP RUN.

```

P9173.cob 11: JMN9173I-W (STD)Numeric edited item moved to numeric edited item in MOVE statement is beyond the common range.

## JMN9180I-W

**(@1@)@2@ special register specified of SET statement is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

@2@ : ADDRESS OF

### Example

```

[P9180.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9180.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC 9(5).
000008 LINKAGE SECTION.
000009 01 ZPTR0 POINTER.
000010 PROCEDURE DIVISION.
000011 P-START.
000012 SET ADDRESS OF ZPTR0 TO NULLS.
000013 STOP RUN.

```

P9180.cob 12: JMN9180I-W (STD)ADDRESS OF special register specified of SET statement is beyond the common range.

## JMN9181I-W

**(@1@)TO TRUE clause in SET statement is beyond the common range.**

### Parameter Explanation

@1@ : STD

### Example

```

[P9181.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9181.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01.
000008 02 REC02 PIC X.
000009 88 REC03 VALUE "A".
000010 PROCEDURE DIVISION.
000011 P-START.
000012 SET REC03 TO TRUE.
000013 STOP RUN.

```

P9181.cob 12: JMN9181I-W (STD)TO TRUE clause in SET statement is beyond the common range.

## JMN9182I-W

**(@1@)Data item in START statement is beyond the common range.**

### Parameter Explanation

@1@ : STD

### Example

```
[P9182.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9182.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT IN-FILE ASSIGN TO IND
000008 ORGANIZATION IS INDEXED
000009 RECORD KEY IS REC01.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD IN-FILE.
000013 01 REC01 PIC 9(5).
000014 PROCEDURE DIVISION.
000015 P-START.
000016 START IN-FILE
000017 KEY IS EQUAL TO REC01.
000018 STOP RUN.
```

P9182.cob 16: JMN9182I-W (STD)Data item in START statement is beyond the common range.

## JMN9183I-W

**(@1@)This relational character in START statement is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

### Example

```
[P9183.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9183.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT SALARY-FILE ASSIGN TO IDFL
000008 ORGANIZATION IS INDEXED
000009 RECORD KEY IS EMPLOYEE-ID.
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD SALARY-FILE.
000013 01 SALARY-REC.
000014 02 EMPLOYEE-ID PIC X(6).
000015 02 SALARY PIC 9(6).
000016 PROCEDURE DIVISION.
000017 P-START.
000018 START SALARY-FILE KEY NOT > EMPLOYEE-ID.
000019 STOP RUN.
```

P9183.cob 18: JMN9183I-W (STD)This relational character in START statement is beyond the common range.

## JMN9191I-W

**(@1 @)Multiple characters data item in INSPECT statement is beyond the common range.**

### Parameter Explanation

@1@ : STD

### Example

```
[P9191.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9191.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC X(10).
000008 01 REC02 PIC 9(4).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 INSPECT REC01
000012 CONVERTING "****" TO "$$$".
000013 STOP RUN.
```

P9191.cob 11: JMN9191I-W (STD)Multiple characters data item in INSPECT statement is beyond the common range.

## JMN9192I-W

**(@1 @)Multiple BEFORE/AFTER in INSPECT statement is beyond the common range.**

### Parameter Explanation

@1@ : STD

### Example

```
[P9192.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9192.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01 PIC X(10).
000008 01 REC02 PIC 9(4).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 INSPECT REC01 TALLYING REC02
000012 FOR CHARACTERS AFTER ", "
000013 BEFORE ", ".
000014 STOP RUN.
```

P9192.cob 11: JMN9192I-W (STD)Multiple BEFORE/AFTER in INSPECT statement is beyond the common range.

## JMN9193I-W

**(@1 @)Multiple @2@ operand in INSPECT statement is beyond the common range.**

### Parameter Explanation

@1@ : STD

@2@ : TALLYING,REPLACING

## Example

```
[P9193.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9193.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01        PIC X(10).
000008 01 REC02        PIC 9(4).
000009 PROCEDURE       DIVISION.
000010 P-START.
000011     INSPECT REC01 REPLACING ALL "1" BY "L"
000012                                     "0" BY "o".
000013     STOP RUN.
```

P9193.cob 11: JMN9193I-W (STD)Multiple REPLACING operand in INSPECT statement is beyond the common range.

## JMN9221I-W

**(@1@)BLOCK CONTAINS 0 CHARACTERS is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

## Example

```
[P9221.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9221.
000004 ENVIRONMENT     DIVISION.
000005 INPUT-OUTPUT    SECTION.
000006 FILE-CONTROL.
000007     SELECT CHAR-FILE ASSIGN TO CHAR-FL.
000008 DATA            DIVISION.
000009 FILE             SECTION.
000010 FD CHAR-FILE
000011     BLOCK CONTAINS 0 CHARACTERS.
000012 01 CHAR-REC      PIC X(80).
000013 PROCEDURE       DIVISION.
000014 P-START.
000015     STOP RUN.
```

P9221.cob 10: JMN9221I-W (STD)BLOCK CONTAINS 0 CHARACTERS is beyond the common range.

## JMN9242I-W

**(@1@)'RECORD CONTAINS integer-1 TO integer-2' is beyond the common range.**

### Parameter Explanation

@1@ : STD

## Example

```
[C9242.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      C9242.
000004 ENVIRONMENT     DIVISION.
000005 INPUT-OUTPUT    SECTION.
000006 FILE-CONTROL.
```

```

000007     SELECT      IN-FILE ASSIGN INFIL.
000008 DATA          DIVISION.
000009 FILE           SECTION.
000010 FD IN-FILE
000011     RECORD CONTAINS 1 TO 5 CHARACTERS.
000012  01  REC01     PIC 9(5).
000013 PROCEDURE      DIVISION.
000014 P-START.
000015     STOP RUN.

```

C9242.cob 11: JMN9242I-W (STD)'RECORD CONTAINS integer-1 TO integer-2' is beyond the common range.

## JMN9251I-W

**(@1 @)@2@ clause in CLOSE statement is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

@2@ : REEL,REEL FOR REMOVAL,UNIT,UNIT FOR REMOVAL,WITH NO REWIND

### Example

```

[P9251.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.     P9251.
000004 ENVIRONMENT      DIVISION.
000005 INPUT-OUTPUT     SECTION.
000006 FILE-CONTROL.
000007     SELECT      IN-FILE ASSIGN SEQ.
000008 DATA          DIVISION.
000009 FILE           SECTION.
000010 FD IN-FILE.
000011  01  REC01     PIC 9(5).
000012 PROCEDURE      DIVISION.
000013 P-START.
000014     OPEN INPUT IN-FILE.
000015     CLOSE IN-FILE REEL FOR REMOVAL.
000016     STOP RUN.

```

P9251.cob 15: JMN9251I-W (STD)REEL FOR REMOVAL clause in CLOSE statement is beyond the common range.

## JMN9261I-W

**(@1 @)Line sequential file is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

### Example

```

[P9261.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.     P9261.
000004 ENVIRONMENT      DIVISION.
000005 INPUT-OUTPUT     SECTION.
000006 FILE-CONTROL.
000007     SELECT SEQLINE
000008     ASSIGN TO C9261
000009     ORGANIZATION IS LINE SEQUENTIAL.
000010 DATA          DIVISION.

```

```

000011 FILE          SECTION.
000012 FD  SEQFLINE.
000013 01  FILE-NUM   PIC X(80).
000014 PROCEDURE     DIVISION.
000015 P-START.
000016          STOP RUN.

```

P9261.cob 12: JMN9261I-W (STD)Line sequential file is beyond the common range.

### JMN9331I-W

**(@1@)Subschema-name is beyond the common range.**

Parameter Explanation

@1@ : SIA,STD

### JMN9332I-W

**(@1@)Nested program is beyond the common range.**

Parameter Explanation

@1@ : STD

Example

```

[P9332.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9332.
000004 ENVIRONMENT     DIVISION.
000005 DATA           DIVISION.
000006 WORKING-STORAGE SECTION.
000007   01 REC01      PIC 9(4).
000008   01 REC02      PIC 9(4).
000009 PROCEDURE     DIVISION.
000010 P-START.
000011   CALL "Z9332".
000012   STOP RUN.
000013*
000014 IDENTIFICATION DIVISION.
000015 PROGRAM-ID.      Z9332.
000016 DATA           DIVISION.
000017 WORKING-STORAGE SECTION.
000018 PROCEDURE     DIVISION.
000019 P-START.
000020 END PROGRAM Z9332.
000021 END PROGRAM P9332.

```

P9332.cob 15: JMN9332I-W (STD)Nested program is beyond the common range.

### JMN9333I-W

**(@1@)Number of USING phrase in CALL statement must not exceed 5.**

Parameter Explanation

@1@ : STD

Example

```

[P9333.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9333.

```

```

000004 ENVIRONMENT      DIVISION.
000005 DATA             DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC01.
000008    02 REC02      PIC 9(4).
000009    02 REC03      PIC 9(4).
000010    02 REC04      PIC 9(4).
000011    02 REC05      PIC 9(4).
000012    02 REC06      PIC 9(4).
000013    02 REC07      PIC 9(4).
000014 PROCEDURE        DIVISION.
000015 P-START.
000016    CALL "Z9333" USING REC02
000017                               REC03
000018                               REC04
000019                               REC05
000020                               REC06
000021                               REC07.
000022    STOP RUN.

```

P9333.cob 16: JMN9333I-W (STD)Number of USING phrase in CALL statement must not exceed 5.

### JMN9334I-W

**(@1@)Number of formal parameters in USING phrase of PROCEDURE DIVISION header must not exceed 5.**

#### Parameter Explanation

@1@ : STD

#### Example

```

[P9334.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION  DIVISION.
000003 PROGRAM-ID.     P9334.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007 LINKAGE          SECTION.
000008 01 REC01          PIC 9(4).
000009 01 REC02          PIC 9(4).
000010 01 REC03          PIC 9(4).
000011 01 REC04          PIC 9(4).
000012 01 REC05          PIC 9(4).
000013 01 REC06          PIC 9(4).
000014 PROCEDURE      DIVISION USING REC01
000015                               REC02
000016                               REC03
000017                               REC04
000018                               REC05
000019                               REC06.
000020 P-START.
000021    STOP RUN.

```

P9334.cob 0: JMN9334I-W (STD)Number of formal parameters in USING phrase of PROCEDURE DIVISION header must not exceed 5.

### JMN9335I-W

**(@1@)END PROGRAM header is beyond the common range.**

## Parameter Explanation

@1@ : STD

### Example

```
[P9335.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9335.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 DATA DIVISION.
000007 PROCEDURE DIVISION.
000008 P-START.
000009 STOP RUN.
000010 END PROGRAM P9335.
```

P9335.cob 10: JMN9335I-W (STD)END PROGRAM header is beyond the common range.

## JMN9341I-W

**(@1@)Sort-merge file is beyond the common range.**

## Parameter Explanation

@1@ : STD

### Example

```
[P9341.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9341.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT IN-FILE
000008 ASSIGN TO SMF.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 SD IN-FILE.
000012 01 REC01.
000013 02 PIC X(66).
000014 PROCEDURE DIVISION.
000015 P-START.
000016 STOP RUN.
```

P9341.cob 11: JMN9341I-W (STD)Sort-merge file is beyond the common range.

## JMN9343I-W

**(@1@)Number of keys specified in ASCENDING/DESCENDING clause of SORT statement must not exceed 15.**

## Parameter Explanation

@1@ : SIA,STD

### Example

```
[P9343.cob]
000001 @OPTIONS FLAGSW(SIA)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9343.
```



```

000004 ENVIRONMENT      DIVISION.
000005 INPUT-OUTPUT    SECTION.
000006 FILE-CONTROL.
000007     SELECT IN-FILE ASSIGN TO INFL.
000008     SELECT OT-FILE ASSIGN TO OTFL.
000009     SELECT SORT-FILE ASSIGN TO STFL.
000010 DATA            DIVISION.
000011 FILE             SECTION.
000012 FD  IN-FILE.
000013  01  IN-REC.
000014  02  RECI1      PIC X(80).
000015 FD  OT-FILE.
000016  01  OT-REC.
000017  02  RECO1      PIC X(80).
000018 SD  SORT-FILE.
000019  01  ST-REC.
000020  02  RECS1      PIC X(5).
000021  02  RECS2      PIC X(5).
000022  02  RECS3      PIC X(5).
000023  02  RECS4      PIC X(5).
000024  02  RECS5      PIC X(5).
000025  02  RECS6      PIC X(5).
000026  02  RECS7      PIC X(5).
000027  02  RECS8      PIC X(5).
000028  02  RECS9      PIC X(5).
000029  02  RECS10     PIC X(5).
000030  02  RECS11     PIC X(5).
000031  02  RECS12     PIC X(5).
000032  02  RECS13     PIC X(5).
000033  02  RECS14     PIC X(5).
000034  02  RECS15     PIC X(5).
000035  02  RECS16     PIC X(5).
000036 WORKING-STORAGE SECTION.
000037 PROCEDURE        DIVISION.
000038 P-START.
000039     SORT SORT-FILE ASCENDING KEY
000040         RECS1 RECS2 RECS3 RECS4 RECS5 RECS6 RECS7 RECS8
000041         RECS9 RECS10 RECS11 RECS12 RECS13 RECS14 RECS15 RECS16
000042         USING IN-FILE GIVING OT-FILE.
000043     STOP RUN.

```

P9343.cob 39: JMN9343I-W (SIA)Number of keys specified in ASCENDING/DESCENDING clause of SORT statement must not exceed 15.

## JMN9344I-W

**(@1@)COPY statement in library text is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

### Example

```

[P9344.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9344.
000004 ENVIRONMENT      DIVISION.
000005 CONFIGURATION    SECTION.
000006 DATA            DIVISION.
000007 WORKING-STORAGE SECTION.
000008     COPY P9344A.
000009 PROCEDURE        DIVISION.

```

```

000010     DISPLAY WK1.
000011 END PROGRAM     P9344.
[P9344A.cbl]
000001     COPY P9344B.
[P9344B.cbl]
000001 01 WK1 PIC X(8).

```

P9344A.cbl 1: JMN9344I-W (STD)COPY statement in library text is beyond the common range.

## JMN9345I-W

**(@1@)Text-name qualified by library-name is beyond the common range.**

### Parameter Explanation

@1@ : STD

### Example

```

[P9345.cob]
000001 @OPTIONS FLAGSW(STD)
000002* The folder with WRKREC.cbl is specified for environment variable COB_COBLIB.
000003 IDENTIFICATION DIVISION.
000004 PROGRAM-ID. P9345.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007     COPY WRKREC OF COBLIB.
000008 PROCEDURE DIVISION.
000009     STOP RUN.
[WRKREC.cbl]
000001 01 DATA1 PIC X(10).

```

P9345.cob 7: JMN9345I-W (STD)Text-name qualified by library-name is beyond the common range.

## JMN9346I-W

**(@1@)Text-name constant is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

### Example

```

[P9346.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9346.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006     COPY "WRKREC.cbl".
000007 PROCEDURE DIVISION.
000008     STOP RUN.
[WRKREC.cbl]
000001 01 DATA1 PIC X(10).

```

P9346.cob 6: JMN9346I-W (STD)Text-name constant is beyond the common range.

## JMN9352I-W

**(@1@)File description entry of report file is beyond the common range.**

### Parameter Explanation

@1@ : SIA

## Example

```
[C9352.cob]
000001 @OPTIONS FLAGSW(SIA)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9352.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT R-FILE ASSIGN TO RFIL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD R-FILE REPORT R2-FILE.
000011 WORKING-STORAGE SECTION.
000012 REPORT SECTION.
000013 RD R2-FILE
000014 PAGE 62
000015 FIRST DETAIL 6
000016 LAST DETAIL 58.
000017 01 DATA-1 TYPE DE
000018 LINE PLUS 1.
000019 PROCEDURE DIVISION.
000020 P-START.
000021 STOP RUN.
```

C9352.cob 10: JMN9352I-W (SIA)File description entry of report file is beyond the common range.

## JMN9353I-W

[\(@1@\)Report description entry of report file is beyond the common range.](#)

### Parameter Explanation

@1@ : STD

## Example

```
[P9353.cob]
000001 @OPTIONS FLAGSW(RPW)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9353.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT R-FILE ASSIGN TO RFIL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD R-FILE REPORT R2-FILE.
000011 WORKING-STORAGE SECTION.
000012 REPORT SECTION.
000013 RD R2-FILE
000014 PAGE 62
000015 FIRST DETAIL 6
000016 LAST DETAIL 58.
000017 01 DATA1 TYPE DE
000018 LINE PLUS 1.
000019 PROCEDURE DIVISION.
000020 P-START.
000021 STOP RUN.
```

P9353.cob 13: JMN9353I-W (STD)Report description entry of report file is beyond the common range.

## JMN9354I-W

---

**(@1@)REPORT SECTION header is beyond the common range.**

Parameter Explanation

@1@ : STD

Example

```
[P9354.cob]
000001 @OPTIONS FLAGSW(RPW)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9354.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT F-FILE ASSIGN TO F.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD F-FILE REPORT R-FILE.
000011 REPORT SECTION.
000012 RD R-FILE
000013 PAGE 62
000014 FIRST DETAIL 6
000015 LAST DETAIL 58.
000016 01 DATA-1 TYPE DE LINE PLUS 1.
000017 PROCEDURE DIVISION.
000018 P-START.
000019 STOP RUN.
```

P9354.cob 11: JMN9354I-W (STD)REPORT SECTION header is beyond the common range.

**JMN9361I-W**

---

**(@1@)CLOSE statement for report file is beyond the common range.**

Parameter Explanation

@1@ : SIA

Example

```
[P9361.cob]
000001 @OPTIONS FLAGSW(SIA)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9361.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT R-FILE ASSIGN TO RFIL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD R-FILE REPORT R2-FILE.
000011 WORKING-STORAGE SECTION.
000012 REPORT SECTION.
000013 RD R2-FILE
000014 PAGE 62
000015 FIRST DETAIL 6
000016 LAST DETAIL 58.
000017 01 DATA1 TYPE DE
000018 LINE PLUS 1.
000019 PROCEDURE DIVISION.
000020 P-START.
000021 OPEN OUTPUT R-FILE.
000022 CLOSE R-FILE.
000023 STOP RUN.
```

P9361.cob 22: JMN9361I-W (SIA)CLOSE statement for report file is beyond the common range.

## JMN9371I-W

**(@1@)OPEN statement for report file is beyond the common range.**

### Parameter Explanation

@1@ : SIA

### Example

```
[C9371.cob]
000001 @OPTIONS FLAGSW(SIA)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9371.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT R-FILE ASSIGN TO RFIL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD R-FILE REPORT R2-FILE.
000011 WORKING-STORAGE SECTION.
000012 REPORT SECTION.
000013 RD R2-FILE
000014 PAGE 62
000015 FIRST DETAIL 6
000016 LAST DETAIL 58.
000017 01 DATA1 TYPE DE
000018 LINE PLUS 1.
000019 PROCEDURE DIVISION.
000020 P-START.
000021 OPEN OUTPUT R-FILE.
000022 CLOSE R-FILE.
000023 STOP RUN.
```

C9371.cob 21: JMN9371I-W (SIA)OPEN statement for report file is beyond the common range.

## JMN9381I-W

**(@1@)File description entry of presentation file is beyond the common range.**

### Parameter Explanation

@1@ : STD

### Example

```
[P9381.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9381.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT MED01 ASSIGN TO GS-FILE
000008 SYMBOLIC DESTINATION IS "PRT".
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD MED01.
000012 01 REC01 PIC 9(5).
000013 01 REC02 PIC 9(5).
000014 PROCEDURE DIVISION.
000015 P-START.
```

```

000016 OPEN INPUT MED01.
000017 CLOSE MED01.
000018 STOP RUN.

```

P9381.cob 11: JMN9381I-W (STD)File description entry of presentation file is beyond the common range.

## JMN9384I-W

**(@1@)@2@ in SYMBOLIC DESTINATION clause is beyond the common range.**

### Parameter Explanation

@1@ : SIA

@2@ : ACM,CMD,TRM,WST,DATA-NAME

### Example

```

[C9384.cob]
000001 @OPTIONS FLAGSW(SIA)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9384.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT MED01
000008 ASSIGN TO GS-FILE
000009 SYMBOLIC DESTINATION IS "ACM".
000010 DATA DIVISION.
000011 FILE SECTION.
000012 FD MED01.
000013 01 REC01 PIC 9(5).
000014 01 REC02 PIC 9(5).
000015 PROCEDURE DIVISION.
000016 P-START.
000017 OPEN INPUT MED01.
000018 CLOSE MED01.
000019 STOP RUN.

```

C9384.cob 12: JMN9384I-W (SIA)ACM in SYMBOLIC DESTINATION clause is beyond the common range.

## JMN9391I-W

**(@1@)@2@ in ACCESS MODE clause is beyond the common range.**

### Parameter Explanation

@1@ : STD

@2@ : RANDOM,DYNAMIC

### Example

```

[P9391.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9391.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007 SELECT INFILE
000008 ASSIGN TO IND
000009 ORGANIZATION IS INDEXED
000010 RECORD KEY IS REC01
000011 ACCESS MODE IS RANDOM.
000012 DATA DIVISION.

```

```

000013 FILE          SECTION.
000014 FD  INFILE.
000015  01  REC01     PIC 9(5).
000016  01  REC02     PIC 9(5).
000017 PROCEDURE     DIVISION.
000018 P-START.
000019  OPEN  INPUT INFILE.
000020  CLOSE INFILE.
000021  STOP  RUN.

```

P9391.cob 14: JMN9391I-W (STD)RANDOM in ACCESS MODE clause is beyond the common range.

## JMN9392I-W

**(@1@)Literal of file identifier in ASSIGN clause is beyond the common range.**

### Parameter Explanation

@1@ : SIA

### Example

```

[P9392.cob]
000001 @OPTIONS FLAGSW(SIA)
000002 IDENTIFICATION  DIVISION.
000003 PROGRAM-ID.     P9392.
000004 ENVIRONMENT     DIVISION.
000005 INPUT-OUTPUT    SECTION.
000006 FILE-CONTROL.
000007  SELECT  INFILE
000008  ASSIGN  TO "INDATA.TXT" .
000009 DATA          DIVISION.
000010 FILE          SECTION.
000011 FD  INFILE.
000012  01  REC01     PIC 9(5).
000013  01  REC02     PIC 9(5).
000014 PROCEDURE     DIVISION.
000015 P-START.
000016  OPEN  INPUT INFILE.
000017  CLOSE INFILE.
000018  STOP  RUN.

```

P9392.cob 11: JMN9392I-W (SIA)Literal of file identifier in ASSIGN clause is beyond the common range.

## JMN9393I-W

**(@1@)@2@ in ASSIGN clause is beyond the common range.**

### Parameter Explanation

@1@ : SIA,STD

@2@ : DATA-NAME,DISK,PRINTER

### Example

```

[C9393.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION  DIVISION.
000003 PROGRAM-ID.     C9393.
000004 ENVIRONMENT     DIVISION.
000005 INPUT-OUTPUT    SECTION.
000006 FILE-CONTROL.
000007  SELECT  CHAR-FILE
000008  ASSIGN  TO PRINTER.

```

```

000009 DATA          DIVISION.
000010 FILE           SECTION.
000011 FD CHAR-FILE.
000012 01 CHAR-REC    PIC X(80).
000013 PROCEDURE      DIVISION.
000014 P-START.
000015      STOP RUN.

```

C9393.cob 11: JMN9393I-W (STD)PRINTER in ASSIGN clause is beyond the common range.

## JMN9501I-W

**(@1@)Separator '->' is beyond the common range.**

Parameter Explanation

@1@ : SIA,STD

Example

```

[P9501.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.     P9501.
000004 ENVIRONMENT     DIVISION.
000005 DATA           DIVISION.
000006 BASED-STORAGE  SECTION.
000007 01 WBUF        PIC X(20).
000008 WORKING-STORAGE SECTION.
000009 01 WPX         POINTER.
000010 PROCEDURE      DIVISION.
000011      MOVE LOW-VALUE TO WPX->WBUF
000012 END PROGRAM    P9501.

```

P9501.cob 11: JMN9501I-W (STD)Separator '->' is beyond the common range.

## JMN9502I-W

**(@1@)Function name @2@ is beyond the common range.**

Parameter Explanation

@1@ : SIA,STD

@2@ : ADDR,LENG

Example

```

[C9502.cob]
000001 @OPTIONS FLAGSW(SIA)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.     C9502.
000004 ENVIRONMENT     DIVISION.
000005 DATA           DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 WBUF        PIC X(20).
000008 01 WPX         POINTER.
000009 PROCEDURE      DIVISION.
000010      MOVE FUNCTION ADDR(WBUF) TO WPX.

```

C9502.cob 10: JMN9502I-W (SIA)Function name ADDR is beyond the common range.

## JMN9503I-W

**(@1@)This function name is beyond the common range.**



## Parameter Explanation

@1@ : SIA,STD

## Example

```
[C9503.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9503.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 A PIC X(21).
000008 PROCEDURE DIVISION.
000009 P-START.
000010 MOVE FUNCTION WHEN-COMPILED TO A.
000011 DISPLAY A.
000012 STOP RUN.
```

C9503.cob 10: JMN9503I-W (STD)This function name is beyond the common range.

## JMN9504I-W

**(@1@)Figurative constant NULL is beyond the common range.**

## Parameter Explanation

@1@ : SIA,STD

## Example

```
[P9504.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9504.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 WPTR POINTER.
000008 PROCEDURE DIVISION.
000009 P-START.
000010 SET WPTR TO NULL
```

P9504.cob 10: JMN9504I-W (STD)Figurative constant NULL is beyond the common range.

## JMN9506I-W

**(@1@)Data-name which defined in SCREEN SECTION is beyond the common range.**

## Parameter Explanation

@1@ : SIA,STD

## Example

```
[P9506.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9506.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 REC-NUM-W PIC 9(5) VALUE 1.
000008 01 REC-NAME-W PIC X(20) VALUE "A".
000009 01 REC-DATA-W PIC X(10) VALUE "REC-NAME".
```

```

000010 SCREEN          SECTION.
000011  01  REC01.
000012    02  REC-NUM    PIC 9(5)  FROM REC-NUM-W.
000013    02  REC-NAME  PIC X(20) FROM REC-NAME-W.
000014    02  REC-DATA  PIC X(10) FROM REC-DATA-W.
000015 PROCEDURE      DIVISION.
000016 P-START.
000017    STOP RUN.

```

P9506.cob 11: JMN9506I-W (STD)Data-name which defined in SCREEN SECTION is beyond the common range.

## JMN9507I-W

**(@1@)'AS' for file identifier is beyond the common range.**

### Parameter Explanation

@1@ : SIA

### Example

```

[P9507.cob]
000001 @OPTIONS FLAGSW(SIA)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9507.
000004 ENVIRONMENT      DIVISION.
000005 INPUT-OUTPUT    SECTION.
000006 FILE-CONTROL.
000007     SELECT      IN-FILE
000008     ASSIGN        TO AS-IND.
000009 DATA            DIVISION.
000010 FILE            SECTION.
000011 FD  IN-FILE.
000012  01  REC01      PIC 9(5).
000013  01  REC02      PIC 9(5).
000014 PROCEDURE      DIVISION.
000015 P-START.
000016     OPEN  INPUT IN-FILE.
000017     CLOSE IN-FILE.
000018     STOP RUN.

```

P9507.cob 8: JMN9507I-W (SIA)'AS' for file identifier is beyond the common range.

## JMN9900I-E

**(@1@) The source reference format (free) is not supported.**

### Parameter Explanation

@1@ : GSS,GSW

### Example

```

[P9900.cob]
@OPTIONS SRF(FREE),FLAGSW(GSS)
IDENTIFICATION DIVISION.
PROGRAM-ID.    P9900.
ENVIRONMENT    DIVISION.
DATA          DIVISION.
WORKING-STORAGE SECTION.
01 FOO01.
02 FOO-NO     PIC X(5).
02 FOO-NAME  PIC X(20).
02 FOO-DATA  PIC X(50).
PROCEDURE     DIVISION.

```

```
P-START.  
STOP RUN.
```

P9900.cob 0: JMN9900I-E (GSS) The source reference format (free) is not supported.

### JMN9901I-E

**(@1@) A character excluded from the COBOL character set for the OSIV system is used.**

#### Parameter Explanation

@1@ : GSS,GSW

#### Example

```
[P9901.cob]  
000001 @OPTIONS FLAGSW(GSS)  
000002 IDENTIFICATION DIVISION.  
000003 PROGRAM-ID. P9901.  
000004 ENVIRONMENT DIVISION.  
000005 DATA DIVISION.  
000006 WORKING-STORAGE SECTION.  
000007 01 DATA_1 PIC X.  
000008 PROCEDURE DIVISION.  
000009 END PROGRAM P9901.
```

P9901.cob 7: JMN9901I-E (GSS) A character excluded from the COBOL character set for the OSIV system is used.

### JMN9902I-E

**(@1@) In the OSIV system, the length of @2@ must be 8 characters or less.**

#### Parameter Explanation

@1@ : GSS,GSW

@2@ : Program-name,entry-name,text-name,copy-name

#### Example

```
[P9902.cob]  
000001 @OPTIONS FLAGSW(GSS)  
000002 IDENTIFICATION DIVISION.  
000003 PROGRAM-ID. P9902.  
000004 ENVIRONMENT DIVISION.  
000005 DATA DIVISION.  
000006 WORKING-STORAGE SECTION.  
000007 PROCEDURE DIVISION.  
000008 ENTRY "ENTRY00001".  
000009 END PROGRAM P9902.
```

P9902.cob 8: JMN9902I-E (GSS) In the OSIV system, the length of entry-name must be 8 characters or less.

### JMN9903I-E

**(@1@) In the OSIV system, @2@ must consist of alphanumeric characters starting with an alphabetic character.**

#### Parameter Explanation

@1@ : GSS,GSW

@2@ : Program-name,entry-name,text-name,copy-name

## Example

```
[P9903.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9903.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE       DIVISION.
000008     ENTRY "ENT"
000009 END PROGRAM      P9903.
```

P9903.cob 8: JMN9903I-E (GSS) In the OSIV system, entry-name must consist of alphanumeric characters starting with an alphabetic character.

## JMN9904I-W

**(@1@) @2@ includes a hyphen. In the OSIV system, hyphens are replaced by '#' .**

### Parameter Explanation

@1@ : GSS,GSW

@2@ : Program-name,entry-name,text-name,copy-name

## Example

```
[P9904.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9904.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE       DIVISION.
000008     ENTRY "ENTRY-1"
000009 END PROGRAM      P9904.
```

P9904.cob 8: JMN9904I-W (GSS) entry-name includes a hyphen. In the OSIV system, hyphens are replaced by '#' .

## JMN9905I-E

**(@1@) The text-name constant is not supported in the OSIV system.**

### Parameter Explanation

@1@ : GSS,GSW

## Example

```
[P9905.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9905.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007     COPY "CPNAME".
000008 PROCEDURE       DIVISION.
000009 END PROGRAM      P9905.
[CPNAME.cbl]
000001* (comment line)
```

P9905.cob 7: JMN9905I-E (GSS) The text-name constant is not supported in the OSIV system.

## JMN9906I-E

**(@1@) An external-name for a program-name is not supported in the OSIV system.**

### Parameter Explanation

@1@ : GSS,GSW

### Example

```
[P9906.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9906 AS "EXTNAME".
000004 ENVIRONMENT     DIVISION.
000005 DATA           DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE       DIVISION.
000008 END PROGRAM     P9906.
```

P9906.cob 3: JMN9906I-E (GSS) An external-name for a program-name is not supported in the OSIV system.

## JMN9907I-E

**(@1@) In the OSIV system, the quotation mark character must correspond to the specification of compile option APOST/QUOTE.**

### Parameter Explanation

@1@ : GSS,GSW

### Example

```
[P9907.cob]
000001 @OPTIONS QUOTE,FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9907.
000004 ENVIRONMENT     DIVISION.
000005 DATA           DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 WDA1         PIC X.
000008 01 WDA2         PIC X.
000009 PROCEDURE     DIVISION.
000010     MOVE "A" TO WDA1.
000011     MOVE 'B' TO WDA1.
000012 END PROGRAM   P9907.
```

P9907.cob 11: JMN9907I-E (GSS) In the OSIV system, the quotation mark character must correspond to the specification of compile option APOST/QUOTE.

## JMN9908I-W

**(@1@) The national literal contains characters that cannot be converted to a national character. The character is replaced by an underscore.**

### Parameter Explanation

@1@ : GSS,GSW

### Example

```
[P9908.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9908.
```

```

000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 WND          PIC N(4).
000008 PROCEDURE        DIVISION.
000009     MOVE NX"C6FCCBDCB8EC" TO WND
000010 END PROGRAM      P9908.

```

P9908.cob 9: JMN9908I-W (GSS) The national literal contains characters that cannot be converted to a national character. The character is replaced by an underscore.

## JMN9909I-E

**(@1@) Function-name '@2@' is not supported in the OSIV system.**

### Parameter Explanation

@1@ : GSS,GSW

@2@ : Function-names

### Example

```

[P9909.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9909.
000004 ENVIRONMENT     DIVISION.
000005 CONFIGURATION   SECTION.
000006 SPECIAL-NAMES.
000007     SYSERR IS EOUT.
000008 DATA            DIVISION.
000009 WORKING-STORAGE SECTION.
000010 PROCEDURE        DIVISION.
000011 END PROGRAM      P9909.

```

P9909.cob 7: JMN9909I-E (GSS) Function-name 'SYSERR' is not supported in the OSIV system.

## JMN9910I-E

**(@1@) @2@ is not supported in the OSIV system.**

### Parameter Explanation

@1@ : GSS,GSW

@2@ : Function-name

### Example

```

[P9910.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9910.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 WDATE         PIC X(20).
000008 01 WANS          PIC S9(2)V999.
000009 01 WANGLE        PIC S9(2)V999.
000010 PROCEDURE        DIVISION.
000011     MOVE FUNCTION CURRENT-DATE TO WDATE
000012     COMPUTE WANS = FUNCTION SIN(WANGLE)
000013 END PROGRAM      P9910.

```

P9910.cob 12: JMN9910I-E (GSS) FUNCTION SIN is not supported in the OSIV system.

## JMN9911I-E

**(@1@) The concatenation expression is not supported in the OSIV system.**

### Parameter Explanation

@1@ : GSS,GSW

### Example

```
[P9911.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9911.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE DIVISION.
000008 DISPLAY "P" & "9911".
000009 END PROGRAM P9911.
```

P9911.cob 8: JMN9911I-E (GSS) The concatenation expression is not supported in the OSIV system.

## JMN9912I-E

**(@1@) @2@ of the object-oriented programming functions is not supported in the OSIV system.**

### Parameter Explanation

@1@ : GSS,GSW

@2@ : Class definition,method definition,REPOSITORY paragraph

### Example

```
[P9912.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9912.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 REPOSITORY.
000007 CLASS FJBASE.
000008 DATA DIVISION.
000009 WORKING-STORAGE SECTION.
000010 PROCEDURE DIVISION.
000011 END PROGRAM P9912.
```

P9912.cob 6: JMN9912I-E (GSS) REPOSITORY paragraph of the object-oriented programming functions is not supported in the OSIV system.

## JMN9913I-E

**(@1@) The IDENTIFICATION DIVISION header cannot be omitted in the OSIV system.**

### Parameter Explanation

@1@ : GSS,GSW

### Example

```
[P9913.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 PROGRAM-ID. P9913.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
```

```
000005 WORKING-STORAGE SECTION.  
000006 PROCEDURE          DIVISION.  
000007 END PROGRAM        P9913.
```

P9913.cob 0: JMN9913I-E (GSS) The IDENTIFICATION DIVISION header cannot be omitted in the OSIV system.

## JMN9914I-E

**(@1@) The @2@ clause is not supported in the OSIV system.**

### Parameter Explanation

@1@ : GSS,GSW

@2@ : CURSOR,CRT STATUS,WITH LOCK

### Example

```
[P9914.cob]  
000001 @OPTIONS FLAGSW(GSS)  
000002 IDENTIFICATION DIVISION.  
000003 PROGRAM-ID.        P9914.  
000004 ENVIRONMENT        DIVISION.  
000005 CONFIGURATION      SECTION.  
000006 SPECIAL-NAMES.  
000007     CURSOR IS WCOL.  
000008 DATA                DIVISION.  
000009 WORKING-STORAGE SECTION.  
000010 01 WCOL              PIC X(4).  
000011 PROCEDURE            DIVISION.  
000012 END PROGRAM          P9914.
```

P9914.cob 3: JMN9914I-E (GSS) The CURSOR clause is not supported in the OSIV system.

## JMN9915I-E

**(@1@) In the OSIV system, a sort-merge file can only specify a file-identifier in the ASSIGN clause.**

### Parameter Explanation

@1@ : GSS,GSW

### Example

```
[P9915.cob]  
000001 @OPTIONS FLAGSW(GSS)  
000002 IDENTIFICATION DIVISION.  
000003 PROGRAM-ID.        P9915.  
000004 ENVIRONMENT        DIVISION.  
000005 INPUT-OUTPUT        SECTION.  
000006 FILE-CONTROL.  
000007     SELECT SRTFILE ASSIGN TO "SYS001".  
000008 I-O-CONTROL.  
000009 DATA                DIVISION.  
000010 FILE                  SECTION.  
000011 SD SRTFILE.  
000012 01 SRTREC.  
000013     02              PIC X(80).  
000014 WORKING-STORAGE SECTION.  
000015 01 WFS1              PIC X(2).  
000016 PROCEDURE            DIVISION.  
000017 END PROGRAM          P9915.
```

P9915.cob 11: JMN9915I-E (GSS) In the OSIV system, a sort-merge file can only specify a file-identifier in the ASSIGN clause.



## JMN9916I-E

**(@1@) Line sequential files are not supported in the OSIV system.**

### Parameter Explanation

@1@ : GSS,GSW

### Example

```
[P9916.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.        P9916.
000004 ENVIRONMENT        DIVISION.
000005 INPUT-OUTPUT        SECTION.
000006 FILE-CONTROL.
000007     SELECT SQFILE1 ASSIGN TO SYS001
000008     ORGANIZATION     IS LINE SEQUENTIAL.
000009 DATA                DIVISION.
000010 FILE                 SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC.
000013 02                 PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE           DIVISION.
000016 END PROGRAM         P9916.
```

P9916.cob 11: JMN9916I-E (GSS) Line sequential files are not supported in the OSIV system.

## JMN9917I-E

**(@1@) The SCREEN SECTION and screen description entry are not supported in the OSIV system.**

### Parameter Explanation

@1@ : GSS,GSW

### Example

```
[P9917.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.        P9917.
000004 ENVIRONMENT        DIVISION.
000005 DATA                DIVISION.
000006 SCREEN              SECTION.
000007 01 SC1              VALUE "SC1".
000008 PROCEDURE           DIVISION.
000009 END PROGRAM         P9917.
```

P9917.cob 6: JMN9917I-E (GSS) The SCREEN SECTION and screen description entry are not supported in the OSIV system.

## JMN9918I-E

**(@1@) Named constants (level number 78) are not supported in the OSIV system.**

### Parameter Explanation

@1@ : GSS,GSW

### Example

```
[P9918.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
```

```

000003 PROGRAM-ID.      P9918.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007 78 NDC1         VALUE 10.
000008 PROCEDURE       DIVISION.
000009 END PROGRAM     P9918.

```

P9918.cob 7: JMN9918I-E (GSS) Named constants (level number 78) are not supported in the OSIV system.

### JMN9919I-E

**(@1@) The type definition is not supported in the OSIV system.**

Parameter Explanation

@1@ : GSS,GSW

Example

```

[P9919.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9919.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 T1 TYPEDEF   PIC X.
000008 PROCEDURE       DIVISION.
000009 END PROGRAM     P9919.

```

P9919.cob 7: JMN9919I-E (GSS) The type definition is not supported in the OSIV system.

### JMN9920I-E

**(@1@) @2@ in the USAGE clause is not supported in the OSIV system.**

Parameter Explanation

@1@ : GSS,GSW

@2@ : OBJECT REFERENCE,PROCEDURE-POINTER,COMP-5

Example

```

[P9920.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9920.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 WPPX          PROCEDURE-POINTER.
000008 PROCEDURE       DIVISION.
000009 END PROGRAM     P9920.

```

P9920.cob 7: JMN9920I-E (GSS) PROCEDURE-POINTER in the USAGE clause is not supported in the OSIV system.

### JMN9921I-E

**(@1@) The @2@ phrase in the PROCEDURE DIVISION header is not supported in the OSIV system.**

Parameter Explanation

@1@ : GSS,GSW

@2@ : WITH,RETURNING

### Example

```
[P9921.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9921.
000004 ENVIRONMENT     DIVISION.
000005 DATA           DIVISION.
000006 LINKAGE         SECTION.
000007 01 LK1         PIC S9(4) BINARY.
000008 PROCEDURE      DIVISION
000009                 RETURNING LK1.
000010 END PROGRAM    P9921.
```

P9921.cob 8: JMN9921I-E (GSS) The RETURNING phrase in the PROCEDURE DIVISION header is not supported in the OSIV system.

### JMN9922I-E

**(@1@) The @2@ statement is not supported in the OSIV system.**

#### Parameter Explanation

@1@ : GSS,GSW

@2@ : EXIT PARAGRAPH,EXIT SECTION,UNLOCK

### Example

```
[P9922.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9922.
000004 ENVIRONMENT     DIVISION.
000005 DATA           DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE      DIVISION.
000008     PERFORM P1.
000009 P1 SECTION.
000010     EXIT SECTION.
000011 END PROGRAM    P9922.
```

P9922.cob 10: JMN9922I-E (GSS) The EXIT SECTION statement is not supported in the OSIV system.

### JMN9923I-E

**(@1@) The @2@ phrase in the @3@ statement is not supported in the OSIV system.**

#### Parameter Explanation

@1@ : GSS,GSW

@2@ : WITH LOCK,PREVIOUS,RETURNING

@3@ : ENTRY,WITH,OPEN,READ

### Example

```
[P9923.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9923.
000004 ENVIRONMENT     DIVISION.
000005 DATA           DIVISION.
```

```

000006 WORKING-STORAGE SECTION.
000007 01 RT-ITEM      PIC X.
000008 PROCEDURE      DIVISION.
000009     CALL "S9923" RETURNING RT-ITEM.
000010 END PROGRAM     P9923.

```

P9923.cob 9: JMN9923I-E (GSS) The RETURNING phrase in the CALL statement is not supported in the OSIV system.

## JMN9924I-E

**(@1@) In the OSIV system, identifier @2@ of the ACCEPT statement specifying a mnemonic-name or function-name must be a fixed-length group item, an alphabetic, an alphanumeric, or an external decimal item.**

### Parameter Explanation

@1@ : GSS,GSW

@2@ : Identifier

### Example

```

[P9924.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9924.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 WBIN         PIC S9(9) BINARY.
000008 PROCEDURE      DIVISION.
000009     ACCEPT WBIN
000010 END PROGRAM     P9924.

```

P9924.cob 9: JMN9924I-E (GSS) In the OSIV system, identifier WBIN of the ACCEPT statement specifying a mnemonic-name or function-name must be a fixed-length group item, an alphabetic, an alphanumeric, or an external decimal item.

## JMN9925I-E

**(@1@) The @2@ statement of the screen handling function is not supported in the OSIV system.**

### Parameter Explanation

@1@ : GSS,GSW

@2@ : ACCEPT, DISPLAY

### Example

```

[P9925.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9925.
000004 ENVIRONMENT     DIVISION.
000005 DATA            DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 WDAT         PIC X(10).
000008 PROCEDURE      DIVISION.
000009     ACCEPT WDAT
000010         AT 1010
000011 END PROGRAM     P9925.

```

P9925.cob 9: JMN9925I-E (GSS) The ACCEPT statement of the screen handling function is not supported in the OSIV system.

## JMN9926I-E

---

**(@1@) In the OSIV system, the length of the program-name specified for a @2@ statement must be 8 characters or less.**

Parameter Explanation

@1@ : GSS,GSW

@2@ : CALL,CANCEL

Example

```
[P9926.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9926.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE DIVISION.
000008 CALL "PGM9926SUB"
000009 END PROGRAM P9926.
```

P9926.cob 8: JMN9926I-E (GSS) In the OSIV system, the length of the program-name specified for a CALL statement must be 8 characters or less.

### JMN9927I-E

---

**(@1@) In the OSIV system, @2@ is invalid as a program-name in the @3@ statement.**

Parameter Explanation

@1@ : GSS,GSW

@2@ : character-string

@3@ : CALL,CANCEL

Example

```
[P9927.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9927.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE DIVISION.
000008 CALL "@PGM9926"
000009 END PROGRAM P9927.
```

P9927.cob 8: JMN9927I-E (GSS) In the OSIV system, @PGM9926 is invalid as a program-name in the CALL statement.

### JMN9928I-W

---

**(@1@) The program-name in the @2@ statement includes a hyphen. In the OSIV system, hyphens are replaced by '#'.**

Parameter Explanation

@1@ : GSS,GSW

@2@ : CALL,CANCEL

Example

```
[P9928.cob]
000001 @OPTIONS FLAGSW(GSS)
```

```

000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9928.
000004 ENVIRONMENT      DIVISION.
000005 DATA              DIVISION.
000006 WORKING-STORAGE SECTION.
000007 PROCEDURE         DIVISION.
000008     CALL "PGM-9926"
000009 END PROGRAM       P9928.

```

P9928.cob 8: JMN9928I-W (GSS) The program-name in the CALL statement includes a hyphen. In the OSIV system, hyphens are replaced by '#'.

## JMN9929I-E

**(@1@) In the OSIV system, a JAPANESE check of the class condition is not supported.**

### Parameter Explanation

@1@ : GSS,GSW

### Example

```

[P9929.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9929.
000004 ENVIRONMENT      DIVISION.
000005 DATA              DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 WDX             PIC X(2).
000008 PROCEDURE         DIVISION.
000009     IF WDX IS JAPANESE THEN
000010         DISPLAY "OK"
000011     END-IF
000012 END PROGRAM       P9929.

```

P9929.cob 9: JMN9929I-E (GSS) In the OSIV system, a JAPANESE check of the class condition is not supported.

## JMN9931I-E

**(@1@) In the OSIV system, a relational character in the START statement is not supported.**

### Parameter Explanation

@1@ : GSS,GSW

### Example

```

[P9931.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9931.
000004 ENVIRONMENT      DIVISION.
000005 INPUT-OUTPUT     SECTION.
000006 FILE-CONTROL.
000007     SELECT IXFILE1 ASSIGN TO SYS001
000008     ORGANIZATION   IS INDEXED
000009     RECORD KEY     IS WRKY1.
000010 DATA              DIVISION.
000011 FILE                SECTION.
000012 FD IXFILE1.
000013 01 IXF1REC.
000014 02 WRKY1         PIC X(2).
000015 02                PIC X(80).
000016 WORKING-STORAGE SECTION.

```

```

000017 PROCEDURE      DIVISION.
000018      START IXFILE1
000019      KEY IS LESS THAN WRKY1
000020 END PROGRAM      P9931.

```

P9931.cob 18: JMN9931I-E (GSS) In the OSIV system, a relational character in the START statement is not supported.

## JMN9932I-E

**(@1@) @2@ is not supported in the OSIV system.**

### Parameter Explanation

@1@ : GSS,GSW

@2@ : Hexadecimal numeric literal

### Example

```

[P9932.cob]
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.      P9932.
000004 ENVIRONMENT      DIVISION.
000005 DATA              DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 WNUM           PIC S9(9) BINARY.
000008 PROCEDURE        DIVISION.
000009     MOVE H"FFFF" TO WNUM.
000010 END PROGRAM      P9932.

```

P9932.cob 9: JMN9932I-E (GSS) hexadecimal numeric literal is not supported in the OSIV system.

## JMN9987I-I

**Non-ASCII characters are included in the nonnumeric literal.**

## JMN9999I-S

**'@1@' cannot be used in this system.**

### Parameter Explanation

@1@ : Relational database module(SQL),a name of intrinsic function specific to an other system,ACCEPT statement and DISPLAY statement for screen handling

## 2.2.8 ODBC

2244	7600	8004	8005	8008	8009	8016	8052	8100	8112
8116	8308	8309	8310	8323	8325	8326	8327	8328E	8329
8340	8356	8386	8408	8409	8410	8430	8431	8432	8433
8434	8435	8476	8477	8478	8486	8499	8503	8601	8718
8725	8766	8772	8773	8956	8957	8992	8994		

## ODBC-2244E

**Invalid data type of indicator variable.**

### Example

```

000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP2244.

```

```

000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007     02 PRDCTNUM   PIC S9(4) COMP-5.
000008     02 PRDCTNAM   PIC X(20).
000009 01 SQLSTATE     PIC X(5).
000010 01 SQLMSG       PIC X(128).
000011 01 VAR-IND1     PIC S9(9) COMP-5.
000012 01 VAR-IND2     PIC S9(4) COMP-3.
000013     EXEC SQL END DECLARE SECTION END-EXEC.
000014 PROCEDURE DIVISION.
000015     EXEC SQL
000016         CALL SPROCEDRE.SELECT1(:PRDCTNUM:VAR-IND1)
000017     END-EXEC
000018     EXEC SQL
000019         CALL SPROCEDRE.SELECT2(:PRDCTNAM:VAR-IND2)
000020     END-EXEC
000021     .

```

SP2244.cob (16) : JMN2633I-S The SQL statement is invalid. ODBC-2244E Invalid data type of indicator variable.

SP2244.cob (19) : JMN2633I-S The SQL statement is invalid. ODBC-2244E Invalid data type of indicator variable.

#### Explanation

Define the indicator variable using 4 digit signed binary integer data items.

### ODBC-7600E

#### Not executable SQL statement.

#### Example

```

000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP7600.
000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007     02 PRDCTNUM   PIC S9(4) COMP-5.
000008     02 PRDCTNAM   PIC X(20).
000009 01 SQLSTATE     PIC X(5).
000010 01 SQLMSG       PIC X(128).
000011 01 VAR-IND     PIC S9(4) COMP-5.
000012     EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014     EXEC SQL
000015         CREATE TABLE STOCK (PRDCT-NO INTEGER, PRDCT-NM CHAR(20))
000016     END-EXEC
000017     EXEC SQL
000018         ALLOCATE DESCRIPTOR SQLDA1 WITH MAX 25
000019     END-EXEC
000020     .

```

SP7600.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-7600E Not executable SQL statement.

SP7600.cob (18) : JMN2633I-S The SQL statement is invalid. ODBC-7600E Not executable SQL statement.

#### Explanation

A SQL statement was encountered that cannot be executed by this compiler.

### ODBC-8004E



---

**Right parenthesis corresponding to left parenthesis is missing near "@1@".**

**Parameter Explanation**

@1@: stored procedure name

**Example**

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8004.  
000003 DATA            DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007     02 PRDCTNUM   PIC S9(4) COMP-5.  
000008     02 PRDCTNAM   PIC X(20).  
000009 01 SQLSTATE     PIC X(5).  
000010 01 SQLMSG      PIC X(128).  
000011 01 VAR-IND1    PIC S9(4) COMP-5.  
000012     EXEC SQL END DECLARE SECTION END-EXEC.  
000013 PROCEDURE DIVISION.  
000014     EXEC SQL  
000015         CALL SPROCEDRE.SELECT1(  
000016     END-EXEC  
000017     EXEC SQL  
000018         CALL SPROCEDRE.SELECT2(: PRDCTNUM: VAR-IND1  
000019     END-EXEC  
000020     .
```

SP8004.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8004E Right parenthesis corresponding to left parenthesis is missing near "SPROCEDRE.SELECT1".

SP8004.cob (18) : JMN2633I-S The SQL statement is invalid. ODBC-8004E Right parenthesis corresponding to left parenthesis is missing near "SPROCEDRE.SELECT2".

**Explanation**

The right parentheses are missing from the CALL statements. Verify that each left parenthesis has a corresponding right parenthesis.

**ODBC-8005E**

---

**Format of national character literal is invalid.**

**Example**

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8005.  
000003 DATA            DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007     02 PRDCTNUM   PIC S9(4) COMP-5.  
000008     02 PRDCTNAM   PIC N(10).  
000009 01 SQLSTATE     PIC X(5).  
000010 01 SQLMSG      PIC X(128).  
000011 01 VAR-IND1    PIC S9(4) COMP-5.  
000012     EXEC SQL END DECLARE SECTION END-EXEC.  
000013 PROCEDURE DIVISION.  
000014     EXEC SQL  
000015         SELECT PRDCT-NO FROM STOCK WHERE PRDCT-NM = N'ABC'  
000016     END-EXEC  
000017     .
```

SP8005.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8005E Format of national character literal is invalid.

## Explanation

There is an error in the description of the national character string literal. Refer to "National Character String Literal" in Chapter 8 of the "NetCOBOL Language Reference".

## ODBC-8008E

### Format of embedded variables name is invalid.

#### Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8008.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007     02 PRDCTNUM   PIC S9(4) COMP-5.
000008     02 PRDCTNAM   PIC N(10).
000009 01 SQLSTATE      PIC X(5).
000010 01 SQLMSG        PIC X(128).
000011 01 VAR-IND1     PIC S9(4) COMP-5.
000012     EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014     EXEC SQL
000015         SELECT PRDCT-NO FROM STOCK WHERE :PRDCTNAM(1:4) = 'TIRE '
000016     END-EXEC
000017     .
```

SP8008.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8008E Format of embedded variables name is invalid.

## Explanation

A host variable cannot be reference modified or subscripted in a SQL statement.

## ODBC-8009E

### Format of nonnumeric literal is invalid.

#### Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8009.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007     02 PRDCTNUM   PIC S9(4) COMP-5.
000008     02 PRDCTNAM   PIC N(10).
000009 01 SQLSTATE      PIC X(5).
000010 01 SQLMSG        PIC X(128).
000011 01 VAR-IND1     PIC S9(4) COMP-5.
000012     EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014     EXEC SQL
000015         SELECT PRDCT-NO FROM STOCK WHERE :PRDCTNAM = ''
000016     END-EXEC
000017     .
```

SP8009.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8009E Format of nonnumeric literal is invalid.

## Explanation

The character string literal must contain a character string.

## ODBC-8016E

### C language comment cannot be specified.

#### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8016.  
000003 DATA            DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007     02 PRDCTNUM   PIC S9(4) COMP-5.  
000008     02 PRDCTNAM   PIC X(20).  
000009 01 SQLSTATE     PIC X(5).  
000010 01 SQLMSG      PIC X(128).  
000011 01 VAR-IND     PIC S9(4) COMP-5.  
000012     EXEC SQL END DECLARE SECTION END-EXEC.  
000013 PROCEDURE DIVISION.  
000014     EXEC SQL  
000015         /* COMMENT */  
000016     CALL SPROCEDRE.SELECT1(:PRDCTNUM:VAR-IND)  
000017     END-EXEC  
000018     .
```

SP8016.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8016E C language comment cannot be specified.

#### Explanation

C language comment indicators "/\*" and "\*/" cannot be used in SQL statements. Use "--" or "--" to indicate comments in SQL statements. Refer to "Token" in Chapter 8 of the "NetCOBOL Language Reference".

## ODBC-8052E

### Format of delimited identifier "@1@" is invalid.

#### Parameter Explanation

@1@: delimiting identifier

#### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8052.  
000003 DATA            DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007     02 PRDCTNUM   PIC S9(4) COMP-5.  
000008     02 PRDCTNAM   PIC N(10).  
000009 01 SQLSTATE     PIC X(5).  
000010 01 SQLMSG      PIC X(128).  
000011 01 VAR-IND1    PIC S9(4) COMP-5.  
000012     EXEC SQL END DECLARE SECTION END-EXEC.  
000013 PROCEDURE DIVISION.  
000014     EXEC SQL  
000015         SELECT "" FROM STOCK WHERE :PRDCTNAM = 'TIRE'  
000016     END-EXEC  
000017     .
```

SP8052.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8052E Format of delimited identifier "" is invalid.

#### Explanation

The delimiting identifier must contain a character string.

## ODBC-8100E

### SQL statement is invalid.

#### Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8100.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007 02 PRDCTNUM  PIC S9(4) COMP-5.
000008 02 PRDCTNAM  PIC N(10).
000009 01 SQLSTATE  PIC X(5).
000010 01 SQLMSG    PIC X(128).
000011 01 VAR-IND1  PIC S9(4) COMP-5.
000012     EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014     EXEC SQL
000015         DECLARE C1 CURSOR FOR
000016             SELECT PNO FROM STOCK WHERE :PRDCTNAM = 'TIRE'
000017     END-EXEC
000018     EXEC SQL OPEN C1 END-EXEC.
000019     EXEC SQL FETCH C1 :PRDCTNUM END-EXEC.
000020     DISPLAY "Product NO." PRDCTNUM
000021     EXEC SQL CLOSE C1 END-EXEC.
000022     .
```

SP8100.cob (19) : JMN2633I-S The SQL statement is invalid. ODBC-8100E SQL statement is invalid.

#### Explanation

Errors that can cause this message to be output include:

- An INTO clause is not specified for the FETCH statement (as shown in the example above).
- A FROM clause is not specified for the PREPARE statement.

## ODBC-8112E

### Format of host variable specification is invalid.

#### Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8112.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007 02 PRDCTNUM  PIC S9(4) COMP-5.
000008 02 PRDCTNAM  PIC N(10).
000009 01 SQLSTATE  PIC X(5).
000010 01 SQLMSG    PIC X(128).
000011 01 VAR-IND1  PIC S9(4) COMP-5.
000012 01 SQLSTMT  PIC X(500).
000013     EXEC SQL END DECLARE SECTION END-EXEC.
000014 PROCEDURE DIVISION.
000015     MOVE "SELECT PNO FROM STOCK WHERE PNAME = ?" TO SQLSTMT
000016     EXEC SQL PREPARE STMT1 FROM :SQLSTMT END-EXEC
000017     EXEC SQL EXECUTE STMT1 USING 'TIRE' END-EXEC
000018     .
```

SP8112.cob (17) : JMN2633I-S The SQL statement is invalid. ODBC-8112E Format of host variable specification is invalid.

## Explanation

Host variables must be specified for the USING clause.

## ODBC-8116E

### Format of argument list is invalid.

#### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8116.  
000003 DATA             DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007     02 PRDCTNUM    PIC S9(4) COMP-5.  
000008     02 PRDCTNAM    PIC X(20).  
000009 01 SQLSTATE       PIC X(5).  
000010 01 SQLMSG         PIC X(128).  
000011 01 VAR-IND1      PIC S9(4) COMP-5.  
000012     EXEC SQL END DECLARE SECTION END-EXEC.  
000013 PROCEDURE DIVISION.  
000014     EXEC SQL  
000015         CALL SPROCEDRE.SELECT1(PRDCTNUM)  
000016     END-EXEC  
000017     EXEC SQL  
000018         CALL SPROCEDRE.SELECT2(:PRDCTNUM, )  
000019     END-EXEC  
000020     .
```

SP8116.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8116E Format of argument list is invalid.

SP8116.cob (18) : JMN2633I-S The SQL statement is invalid. ODBC-8116E Format of argument list is invalid.

## Explanation

Errors that can cause this message to be output include:

- The arguments of the CALL statement are not host variables or literals (as shown in the example above).
- The argument list of the CALL statement ends with a separator.

## ODBC-8308E

### Cursor name is missing near "@1@".

#### Parameter Explanation

@1@: DECLARE

#### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8308.  
000003 DATA             DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007     02 PRDCTNUM    PIC S9(4) COMP-5.  
000008     02 PRDCTNAM    PIC N(10).  
000009 01 SQLSTATE       PIC X(5).  
000010 01 SQLMSG         PIC X(128).  
000011 01 VAR-IND1      PIC S9(4) COMP-5.  
000012     EXEC SQL END DECLARE SECTION END-EXEC.  
000013 PROCEDURE DIVISION.
```

```

000014 EXEC SQL
000015     DECLARE CURSOR C1 FOR
000016     SELECT PNO FROM STOCK WHERE :PRDCTNAM = 'TIRE'
000017     END-EXEC
000018     .

```

SP8308.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8308E Cursor name is missing near "DECLARE".

### Explanation

Errors that can cause this message to be output include:

- The cursor name is not specified immediately following DECLARE in DECLARE CURSOR (as shown in the example above).
- The cursor name is not specified for CURRENT OF.

## ODBC-8309E

### SQL statement identifier name is missing near "@1@".

#### Parameter Explanation

@1@: EXECUTE

#### Example

```

000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8309.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007 02 PRDCTNUM    PIC S9(4) COMP-5.
000008 02 PRDCTNAM    PIC N(10).
000009 01 SQLSTATE    PIC X(5).
000010 01 SQLMSG     PIC X(128).
000011 01 VAR-IND1   PIC S9(4) COMP-5.
000012 01 SQLSTMT   PIC X(500).
000013     EXEC SQL END DECLARE SECTION END-EXEC.
000014 PROCEDURE DIVISION.
000015     MOVE "SELECT PNO FROM STOCK WHERE PNAME = ?" TO SQLSTMT
000016     EXEC SQL PREPARE STM1 FROM :SQLSTMT END-EXEC
000017     EXEC SQL EXECUTE USING :PRDCTNAM END-EXEC
000018     .

```

SP8309.cob (17) : JMN2633I-S The SQL statement is invalid. ODBC-8309E SQL statement identifier name is missing near "EXECUTE".

### Explanation

A SQL statement identifier must be specified immediately following the EXECUTE.

## ODBC-8310E

### Stored procedure name is missing near "@1@".

#### Parameter Explanation

@1@: CALL

#### Example

```

000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8310.
000003 DATA           DIVISION.
000004 WORKING-STORAGE SECTION.

```

```

000005 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007 02 PRDCTNUM PIC S9(4) COMP-5.
000008 02 PRDCTNAM PIC X(20).
000009 01 SQLSTATE PIC X(5).
000010 01 SQLMSG PIC X(128).
000011 01 VAR-IND PIC S9(4) COMP-5.
000012 EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014 EXEC SQL
000015 CALL (:PRDCTNUM:VAR-IND)
000016 END-EXEC
000017 .

```

SP8310.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8310E Stored procedure name is missing near "CALL".

### Explanation

The stored procedure name must be specified immediately following the CALL.

## ODBC-8323E

### Left parenthesis is missing near "@1@".

#### Parameter Explanation

@1@: stored procedure name

#### Example

```

000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. SP8323.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007 02 PRDCTNUM PIC S9(4) COMP-5.
000008 02 PRDCTNAM PIC X(20).
000009 01 SQLSTATE PIC X(5).
000010 01 SQLMSG PIC X(128).
000011 01 VAR-IND PIC S9(4) COMP-5.
000012 EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014 EXEC SQL
000015 CALL SELECT1 :PRDCTNUM:VAR-IND)
000016 END-EXEC
000017 .

```

SP8323.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8323E Left parenthesis is missing near "SELECT1".

### Explanation

In the example above, the left parenthesis is missing from the CALL SELECT1 argument. Verify that each right parenthesis has a corresponding left parenthesis.

## ODBC-8325E

### Connect target is missing near "@1@".

#### Parameter Explanation

@1@: CONNECT, TO

## Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8325.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007     02 PRDCTNUM    PIC S9(4) COMP-5.
000008     02 PRDCTNAM    PIC X(20).
000009 01 SQLSTATE      PIC X(5).
000010 01 SQLMSG       PIC X(128).
000011 01 VAR-IND     PIC S9(4) COMP-5.
000012     EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014     EXEC SQL CONNECT DEFAULT END-EXEC
000015     EXEC SQL CONNECT TO END-EXEC
000016     EXEC SQL CALL SELECT1(:PRDCTNUM) END-EXEC
000017     .
```

SP8325.cob (14) : JMN2633I-S The SQL statement is invalid. ODBC-8325E Connect target is missing near "CONNECT".

SP8325.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8325E Connect target is missing near "TO".

## Explanation

Errors that can cause this message to be output include:

- The CONNECT statement does not have a TO specification (as shown in the example above).
- A connection target is not specified for TO.

## ODBC-8326E

**Connect object is missing near "@1@".**

### Parameter Explanation

@1@: SET CONNECTION

## Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8326.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007     02 PRDCTNUM    PIC S9(4) COMP-5.
000008     02 PRDCTNAM    PIC X(20).
000009 01 SQLSTATE      PIC X(5).
000010 01 SQLMSG       PIC X(128).
000011 01 SQLCON     PIC X(30).
000012 01 VAR-IND     PIC S9(4) COMP-5.
000013     EXEC SQL END DECLARE SECTION END-EXEC.
000014 PROCEDURE DIVISION.
000015     EXEC SQL SET CONNECTION END-EXEC
000016     EXEC SQL CALL SELECT1(:PRDCTNUM) END-EXEC
000017     .
```

SP8326.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8326E Connect object is missing near "SET CONNECTION".

## Explanation

A connection object must be specified for the SET CONNECTION statement.



## ODBC-8327E

**Disconnect object is missing near "@1@".**

### Parameter Explanation

@1@: DISCONNECT

### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8327.  
000003 DATA             DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007 02 PRDCTNUM      PIC S9(4) COMP-5.  
000008 02 PRDCTNAM     PIC X(20).  
000009 01 SQLSTATE     PIC X(5).  
000010 01 SQLMSG       PIC X(128).  
000011 01 VAR-IND      PIC S9(4) COMP-5.  
000012     EXEC SQL END DECLARE SECTION END-EXEC.  
000013 PROCEDURE DIVISION.  
000014     EXEC SQL CONNECT TO DEFAULT END-EXEC  
000015     EXEC SQL CALL SELECT1(:PRDCTNUM) END-EXEC  
000016     EXEC SQL DISCONNECT END-EXEC  
000017     .
```

SP8327.cob (16) : JMN2633I-S The SQL statement is invalid. ODBC-8327E Disconnect object is missing near "DISCONNECT".

### Explanation

A disconnection object must be specified for the DISCONNECT statement.

## ODBC-8328E

**Connection name is missing near "@1@".**

### Parameter Explanation

@1@: AS

### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8328.  
000003 DATA             DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007 02 PRDCTNUM      PIC S9(4) COMP-5.  
000008 02 PRDCTNAM     PIC X(20).  
000009 01 SQLSTATE     PIC X(5).  
000010 01 SQLMSG       PIC X(128).  
000011 01 SQLCON      PIC X(30).  
000012 01 VAR-IND      PIC S9(4) COMP-5.  
000013     EXEC SQL END DECLARE SECTION END-EXEC.  
000014 PROCEDURE DIVISION.  
000015     EXEC SQL CONNECT TO :SQLCON AS END-EXEC  
000016     EXEC SQL CALL SELECT1(:PRDCTNUM) END-EXEC  
000017     .
```

SP8328.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8328E Connection name is missing near "AS".

## Explanation

The connection name must be specified for AS of the CONNECT statement.

## ODBC-8329E

### Username is missing near "@1@".

#### Parameter Explanation

@1@: USER

#### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8329.  
000003 DATA            DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007     02 PRDCTNUM   PIC S9(4) COMP-5.  
000008     02 PRDCTNAM   PIC X(20).  
000009 01 SQLSTATE      PIC X(5).  
000010 01 SQLMSG        PIC X(128).  
000011 01 SQLCON        PIC X(30).  
000012 01 VAR-IND       PIC S9(4) COMP-5.  
000013     EXEC SQL END DECLARE SECTION END-EXEC.  
000014 PROCEDURE DIVISION.  
000015     EXEC SQL CONNECT TO :SQLCON USER END-EXEC  
000016     EXEC SQL CALL SELECT1(:PRDCTNUM) END-EXEC  
000017     .
```

SP8329.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8329E Username is missing near "USER".

## Explanation

A username must be specified for USER of the CONNECT statement.

## ODBC-8340E

### Target specification is missing near "@1@".

#### Parameter Explanation

@1@: clause

#### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8340.  
000003 DATA            DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007     02 PRDCTNUM   PIC S9(4) COMP-5.  
000008     02 PRDCTNAM   PIC N(10).  
000009 01 SQLSTATE      PIC X(5).  
000010 01 SQLMSG        PIC X(128).  
000011 01 VAR-IND1     PIC S9(4) COMP-5.  
000012     EXEC SQL END DECLARE SECTION END-EXEC.  
000013 PROCEDURE DIVISION.  
000014     EXEC SQL  
000015         DECLARE C1 CURSOR FOR  
000016             SELECT PNO FROM STOCK WHERE :PRDCTNAM = 'TIRE'  
000017     END-EXEC  
000018     EXEC SQL OPEN C1 END-EXEC.
```

```

000019 EXEC SQL FETCH C1 INTO END-EXEC.
000020 DISPLAY "Product NO." PRDCTNUM
000021 EXEC SQL CLOSE C1 END-EXEC.
000022 .

```

SP8340.cob (19) : JMN2633I-S The SQL statement is invalid. ODBC-8340E Target specification is missing near "INTO".

### Explanation

The target specification must be specified for the clause output to the message.

## ODBC-8356E

### Query expression or SQL statement identifier is missing.

#### Example

```

000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. SP8356.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007 02 PRDCTNUM PIC S9(4) COMP-5.
000008 02 PRDCTNAM PIC N(10).
000009 01 SQLSTATE PIC X(5).
000010 01 SQLMSG PIC X(128).
000011 01 VAR-IND1 PIC S9(4) COMP-5.
000012 EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014 EXEC SQL
000015 DECLARE C1 CURSOR FOR
000016 END-EXEC
000017 .

```

SP8356.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8356E Query expression or SQL statement identifier is missing.

### Explanation

Errors that can cause this message to be output include:

- A query expression is not specified for the cursor of the Declare Cursor (as shown in the example above).
- A SQL statement identifier is not specified for the Dynamic Declare Cursor.

## ODBC-8386E

### SQL statement variable is missing near "@1@".

#### Parameter Explanation

@1@: FROM, IMMEDIATE

#### Example

```

000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. SP8386.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007 02 PRDCTNUM PIC S9(4) COMP-5.
000008 02 PRDCTNAM PIC N(10).
000009 01 SQLSTATE PIC X(5).
000010 01 SQLMSG PIC X(128).
000011 01 VAR-IND1 PIC S9(4) COMP-5.

```

```

000012 01 SQLSTMT      PIC X(500).
000013      EXEC SQL END DECLARE SECTION END-EXEC.
000014 PROCEDURE DIVISION.
000015      MOVE "SELECT PNO FROM STOCK WHERE PNAME = ?" TO SQLSTMT
000016      EXEC SQL PREPARE STM1 FROM SQLSTMT END-EXEC
000017      EXEC SQL EXECUTE IMMEDIATE STM1 USING :PRDCTNAM END-EXEC
000018      .

```

SP8386.cob (16) : JMN2633I-S The SQL statement is invalid. ODBC-8386E SQL statement variable is missing near "FROM".

SP8386.cob (17) : JMN2633I-S The SQL statement is invalid. ODBC-8386E SQL statement variable is missing near "IMMEDIATE".

## Explanation

Errors that can cause this message to be output include:

- The SQL statement variables specified for FROM of the PREPARE statement are not Host variables.
- The SQL statement variables specified for the EXECUTE IMMEDIATE statement are not Host variables.

## ODBC-8408E

### Invalid specification after cursor name "@1@".

#### Parameter Explanation

@1@: cursor name

#### Example

```

000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8408.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005      EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007 02 PRDCTNUM      PIC S9(4) COMP-5.
000008 02 PRDCTNAM      PIC N(10).
000009 01 SQLSTATE     PIC X(5).
000010 01 SQLMSG        PIC X(128).
000011 01 VAR-IND1     PIC S9(4) COMP-5.
000012      EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014      EXEC SQL
000015          DECLARE C1 CURSOR FOR
000016              SELECT PNO FROM STOCK WHERE :PRDCTNAM = 'TIRE'
000017          END-EXEC
000018      EXEC SQL OPEN C1 END-EXEC.
000019      EXEC SQL FETCH C1 INTO :PRDCTNUM END-EXEC.
000020      DISPLAY "Product NO." PRDCTNUM
000021      EXEC SQL CLOSE C1 RELEASE END-EXEC.
000022      .

```

SP8408.cob (21) : JMN2633I-S The SQL statement is invalid. ODBC-8408E Invalid specification after cursor name "C1".

## Explanation

There is an invalid word following the cursor name of the CLOSE statement.

## ODBC-8409E

### Invalid specification after SQL statement identifier "@1@".

#### Parameter Explanation

@1@: SQL statement identifier

## Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8409.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007     02 PRDCTNUM    PIC S9(4) COMP-5.
000008     02 PRDCTNAM    PIC N(10).
000009 01 SQLSTATE      PIC X(5).
000010 01 SQLMSG        PIC X(128).
000011 01 SQLSTMT      PIC X(128).
000012 01 VAR-IND1     PIC S9(4) COMP-5.
000013     EXEC SQL END DECLARE SECTION END-EXEC.
000014 PROCEDURE DIVISION.
000015     MOVE "SELECT PNO FROM STOCK WHERE PNAME = ?" TO SQLSTMT
000016     EXEC SQL PREPARE STM1 FROM :SQLSTMT END-EXEC
000017     EXEC SQL DECLARE C1 CURSOR FOR STM1 FROM END-EXEC
000018     .
```

SP8409.cob (17) : JMN2633I-S The SQL statement is invalid. ODBC-8409E Invalid specification after SQL statement identifier "STM1".

## Explanation

Errors that can cause this message to be output include:

- There is an invalid word immediately following the SQL statement identifier of the Dynamic Declare Cursor.
- There is an invalid word immediately following the SQL statement identifier of the EXECUTE statement.

## ODBC-8410E

### Invalid specification after argument list.

## Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8410.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007     02 PRDCTNUM    PIC S9(4) COMP-5.
000008     02 PRDCTNAM    PIC X(20).
000009 01 SQLSTATE      PIC X(5).
000010 01 SQLMSG        PIC X(128).
000011 01 VAR-IND      PIC S9(4) COMP-5.
000012 01 RTCD         PIC S9(4) COMP-5.
000013     EXEC SQL END DECLARE SECTION END-EXEC.
000014 PROCEDURE DIVISION.
000015     EXEC SQL
000016     CALL SELECT1(:PRDCTNUM:VAR-IND) RETURNING RTCD
000017     END-EXEC
000018     .
```

SP8410.cob (16) : JMN2633I-S The SQL statement is invalid. ODBC-8410E Invalid specification after argument list.

## Explanation

There is an invalid word immediately following the right parenthesis of the argument list of the CALL statement.

## ODBC-8430E

---

## FOR phrase can not specify in "@1@" statement.

### Parameter Explanation

@1@: SQL statement

### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8430.  
000003 DATA            DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007     02 PRDCTNUM PIC S9(4) COMP-5 OCCURS 3.  
000008     02 PRDCTNAM PIC N(10)          OCCURS 3.  
000009 01 SQLSTATE      PIC X(5).  
000010 01 SQLMSG        PIC X(128).  
000011 01 VAR-IND1     PIC S9(4) COMP-5.  
000012     EXEC SQL END DECLARE SECTION END-EXEC.  
000013 01 CNT           PIC S9(4) COMP-5.  
000014 PROCEDURE DIVISION.  
000015     EXEC SQL  
000016         DECLARE C1 CURSOR FOR  
000017             SELECT PNO FROM STOCK WHERE PRDCTNAM = 'TIRE'  
000018     END-EXEC  
000019     EXEC SQL OPEN C1 END-EXEC  
000020     EXEC SQL FOR 3 CALL PROC.FETCH1 END-EXEC  
000021     EXEC SQL CLOSE C1 END-EXEC  
000022     .
```

SP8430.cob (20) : JMN2633I-S The SQL statement is invalid. ODBC-8430E FOR phrase can not specify in "CALL" statement.

### Explanation

The FOR clause can be used only in conjunction with the following SQL statements that specify the host variable with multiple rows specified or the host variable with a table specified:

- SELECT
- INSERT
- FETCH (searched)
- UPDATE (searched)
- DELETE
- EXECUTE

## ODBC-8431E

---

### Invalid specification of SQL statement variable in "@1@" statement.

### Parameter Explanation

@1@: SQL statement

### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8431.  
000003 DATA            DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007     02 PRDCTNUM PIC S9(4) COMP-5.
```

```

000008 02 PRDCTNAM PIC X(20).
000009 01 SQLSTATE PIC X(5).
000010 01 SQLMSG PIC X(128).
000011 01 VAR-IND PIC S9(4) COMP-5.
000012 EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014 EXEC SQL CONNECT TO DEFAULT END-EXEC
000015 EXEC SQL CALL SELECT1(:STOCK-TABLE) END-EXEC
000016 .

```

SP8431.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8431E Invalid specification of SQL statement variable in "CALL" statement.

### Explanation

Host variables other than the Host variables of a single column specified are specified to the places where only the ones of a single column specified are allowed for the Host variable specification.

## ODBC-8432E

### Invalid specification position or method of FOR phrase.

#### Example

```

000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. SP8432.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007 02 PRDCTNUM PIC S9(4) COMP-5.
000008 02 PRDCTNAM PIC N(10).
000009 01 SQLSTATE PIC X(5).
000010 01 SQLMSG PIC X(128).
000011 01 VAR-IND1 PIC S9(4) COMP-5.
000012 EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014 EXEC SQL
000015 DECLARE C1 CURSOR FOR
000016 SELECT PNO FROM STOCK WHERE :PRDCTNUM = 1
000017 END-EXEC
000018 EXEC SQL OPEN C1 END-EXEC.
000019 EXEC SQL FOR 3 FETCH C1 INTO :PRDCTNUM END-EXEC.
000020 DISPLAY "Product NO." PRDCTNUM
000021 EXEC SQL CLOSE C1 END-EXEC.
000022 .

```

SP8432.cob (19) : JMN2633I-S The SQL statement is invalid. ODBC-8432E Invalid specification position or method of FOR phrase.

### Explanation

Errors that can cause this message to be output are as follows:

- Error in the location of the FOR phrase in the statement.
- Error in the format of the host variables (single column specified) of the statement specified for the FOR clause.

## ODBC-8433E

### Value in FOR phrase exceed its value in OCCURS clause.

#### Example

```

000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. SP8433.

```

```

000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007     02 PRDCTNUM PIC S9(4) COMP-5 OCCURS 3.
000008     02 PRDCTNAM PIC N(10)          OCCURS 3.
000009 01 SQLSTATE     PIC X(5).
000010 01 SQLMSG       PIC X(128).
000011 01 VAR-IND1     PIC S9(4) COMP-5.
000012     EXEC SQL END DECLARE SECTION END-EXEC.
000013 01 CNT          PIC S9(4) COMP-5.
000014 PROCEDURE DIVISION.
000015     EXEC SQL
000016         DECLARE C1 CURSOR FOR
000017             SELECT PNO FROM STOCK WHERE PRDCTNAM = 'TIRE'
000018         END-EXEC
000019     EXEC SQL OPEN C1 END-EXEC
000020     EXEC SQL FOR 4 FETCH C1 INTO :PRDCTNUM END-EXEC
000021     EXEC SQL CLOSE C1 END-EXEC
000022     .

```

SP8433.cob (20) : JMN2633I-S The SQL statement is invalid. ODBC-8433E Value in FOR phrase exceed its value in OCCURS clause.

#### Explanation

The number specified in the FOR phrase must be less than the number of iterations specified in the OCCURS clause.

### ODBC-8434E

#### Form of host variable is different.

#### Example

```

000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8433.
000003 DATA          DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE1.
000007     02 PRDCTNUM PIC S9(4) COMP-5 OCCURS 3.
000008 01 STOCK-TABLE2.
000009     02 PRDCTNAM PIC N(10).
000010 01 SQLSTATE     PIC X(5).
000011 01 SQLMSG       PIC X(128).
000012 01 VAR-IND1     PIC S9(4) COMP-5.
000013     EXEC SQL END DECLARE SECTION END-EXEC.
000014 01 CNT          PIC S9(4) COMP-5.
000015 PROCEDURE DIVISION.
000016     EXEC SQL
000017         SELECT PNO, PNAME INTO :STOCK-TABLE1, :STOCK-TABLE2
000018         FROM STOCK WHERE PRDCTNAM = 'TIRE'
000019     END-EXEC
000020     .

```

SP8434.cob (17) : JMN2633I-S The SQL statement is invalid. ODBC-8434E Form of host variable is different.

#### Explanation

All host variables in the SQL statements must have the same format.

### ODBC-8435E

#### Invalid form of indicator variable correspondence to host variable.



## Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8435.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007 02 PRDCTNUM     PIC S9(4) COMP-5.
000008 02 PRDCTNAM     PIC X(20).
000009 01 SQLSTATE     PIC X(5).
000010 01 SQLMSG       PIC X(128).
000011 01 VAR-IND     PIC S9(4) COMP-5.
000012     EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014     EXEC SQL
000015         CALL SPROCEDRE.SELECT1(:STOCK-TABLE:VAR-IND)
000016     END-EXEC
000017     .
```

SP8435.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8435E Invalid form of indicator variable correspondence to host variable.

## Explanation

The indicator variables and the host variables must have the same format.

## ODBC-8476E

---

### Invalid specification "@1@" after connect target.

#### Parameter Explanation

@1@: word

## Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8476.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007 02 PRDCTNUM     PIC S9(4) COMP-5.
000008 02 PRDCTNAM     PIC X(20).
000009 01 SQLSTATE     PIC X(5).
000010 01 SQLMSG       PIC X(128).
000011 01 VAR-IND     PIC S9(4) COMP-5.
000012     EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014     EXEC SQL CONNECT TO DEFAULT AS END-EXEC
000015     EXEC SQL CALL SELECT1(:PRDCTNUM) END-EXEC
000016     .
```

SP8476.cob (14) : JMN2633I-S The SQL statement is invalid. ODBC-8476E Invalid specification "AS" after connect target.

## Explanation

There is an invalid word immediately following the DEFAULT specification of the CONNECT statement.

## ODBC-8477E

---

### Invalid specification "@1@" after connect object.

## Parameter Explanation

@1@: word

### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8477.  
000003 DATA            DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007    02 PRDCTNUM   PIC S9(4) COMP-5.  
000008    02 PRDCTNAM  PIC X(20).  
000009 01 SQLSTATE    PIC X(5).  
000010 01 SQLMSG     PIC X(128).  
000011 01 VAR-IND    PIC S9(4) COMP-5.  
000012     EXEC SQL END DECLARE SECTION END-EXEC.  
000013 PROCEDURE DIVISION.  
000014     EXEC SQL SET CONNECTION DEFAULT FROM STM1 END-EXEC  
000015     .
```

SP8477.cob (14) : JMN2633I-S The SQL statement is invalid. ODBC-8477E Invalid specification "FROM" after connect object.

### Explanation

There is an invalid word immediately following the connection object of the SET CONNECTION statement.

## ODBC-8478E

### Invalid specification "@1@" after disconnect object.

## Parameter Explanation

@1@: word

### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8478.  
000003 DATA            DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007    02 PRDCTNUM   PIC S9(4) COMP-5.  
000008    02 PRDCTNAM  PIC X(20).  
000009 01 SQLSTATE    PIC X(5).  
000010 01 SQLCON     PIC X(30).  
000011 01 SQLMSG     PIC X(128).  
000012 01 VAR-IND    PIC S9(4) COMP-5.  
000013     EXEC SQL END DECLARE SECTION END-EXEC.  
000014 PROCEDURE DIVISION.  
000015     EXEC SQL CONNECT TO :SQLCON END-EXEC  
000016     EXEC SQL CALL SELECT1(:PRDCTNUM) END-EXEC  
000017     EXEC SQL DISCONNECT :SQLCON RELEASE END-EXEC  
000018     .
```

SP8478.cob (17) : JMN2633I-S The SQL statement is invalid. ODBC-8478E Invalid specification "RELEASE" after disconnect object.

### Explanation

There is an invalid word immediately following the disconnection object of the DISCONNECT statement.

## ODBC-8486E

---

## Invalid specification after SQL statement variable.

### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8486.  
000003 DATA            DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007 02 PRDCTNUM      PIC S9(4) COMP-5.  
000008 02 PRDCTNAM      PIC N(10).  
000009 01 SQLSTATE      PIC X(5).  
000010 01 SQLMSG        PIC X(128).  
000011 01 VAR-IND1     PIC S9(4) COMP-5.  
000012 01 SQLSTMT      PIC X(500).  
000013     EXEC SQL END DECLARE SECTION END-EXEC.  
000014 PROCEDURE DIVISION.  
000015     MOVE "SELECT PNO FROM STOCK WHERE PNAME = ?" TO SQLSTMT  
000016     EXEC SQL PREPARE STMT1 FROM :SQLSTMT ALL END-EXEC  
000017     EXEC SQL EXECUTE IMMEDIATE :SQLSTMT USING :PRDCTNAM END-EXEC  
000018     .
```

SP8486.cob (16) : JMN2633I-S The SQL statement is invalid. ODBC-8486E Invalid specification after SQL statement variable.

SP8486.cob (17) : JMN2633I-S The SQL statement is invalid. ODBC-8486E Invalid specification after SQL statement variable.

### Explanation

Errors that cause this message to be output in the example above include:

- An invalid word immediately follows the SQL statement variables of the PREPARE statement.
- An invalid word immediately follows the SQL statement variables of the EXECUTE IMMEDIATE statement.

## ODBC-8499E

---

### Invalid specification after keyword "@1@".

#### Parameter Explanation

@1@: COMMIT, ROLLBACK

### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8499.  
000003 DATA            DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007 02 PRDCTNUM      PIC S9(4) COMP-5.  
000008 02 PRDCTNAM      PIC X(20).  
000009 01 SQLSTATE      PIC X(5).  
000010 01 SQLMSG        PIC X(128).  
000011 01 VAR-IND      PIC S9(4) COMP-5.  
000012     EXEC SQL END DECLARE SECTION END-EXEC.  
000013 PROCEDURE DIVISION.  
000014     EXEC SQL COMMIT IMMEDIATE END-EXEC  
000015     EXEC SQL ROLLBACK RELEASE END-EXEC  
000016     .
```

SP8499.cob (14) : JMN2633I-S The SQL statement is invalid. ODBC-8499E Invalid specification after keyword "COMMIT".

SP8499.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8499E Invalid specification after keyword "ROLLBACK".

## Explanation

Errors that cause this message to be output in the example above include:

- An invalid word immediately following COMMIT.
- An invalid word immediately following ROLLBACK.

Only the word WORK can be specified immediately following COMMIT or ROLLBACK.

## ODBC-8503E

**Keyword 'OF' is missing just after keyword 'CURRENT'.**

### Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8503.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007 02 PRDCTNUM      PIC S9(4) COMP-5.
000008 02 PRDCTNAM     PIC X(20).
000009 01 SQLSTATE     PIC X(5).
000010 01 SQLMSG       PIC X(128).
000011 01 VAR-IND     PIC S9(4) COMP-5.
000012     EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014     EXEC SQL
000015         DECLARE C1 CURSOR FOR
000016             SELECT PNO FROM STOCK WHERE :PRDCTNAM = 'TIRE'
000017         END-EXEC
000018     EXEC SQL OPEN C1 END-EXEC.
000019     EXEC SQL FETCH C1 INTO :PRDCTNUM END-EXEC.
000020     EXEC SQL UPDATE WHERE CURRENT C1 END-EXEC
000021     EXEC SQL DELETE WHERE CURRENT C1 END-EXEC
000022     EXEC SQL CLOSE C1 END-EXEC.
000023     .
```

SP8503.cob (20) : JMN2633I-S The SQL statement is invalid. ODBC-8503E Keyword 'OF' is missing just after keyword 'CURRENT'.

SP8503.cob (21) : JMN2633I-S The SQL statement is invalid. ODBC-8503E Keyword 'OF' is missing just after keyword 'CURRENT'.

## Explanation

In the above example, keyword OF must be specified after CURRENT in the UPDATE WHERE and DELETE WHERE clauses.

## ODBC-8601E

**Keyword 'USING' or keyword 'INTO' is duplicated.**

### Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8601.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007 02 PRDCTNUM      PIC S9(4) COMP-5.
000008 02 PRDCTNAM     PIC N(10).
000009 01 SQLSTATE     PIC X(5).
000010 01 SQLMSG       PIC X(128).
000011 01 VAR-IND1    PIC S9(4) COMP-5.
000012 01 SQLSTMT     PIC X(500).
```

```

000013 EXEC SQL END DECLARE SECTION END-EXEC.
000014 PROCEDURE DIVISION.
000015 MOVE "SELECT PNO FROM STOCK WHERE PNAME = ?" TO SQLSTMT
000016 EXEC SQL PREPARE STM1 FROM :SQLSTMT END-EXEC
000017 EXEC SQL EXECUTE STM1 USING :PRDCTNUM USING :PRDCTNAM END-EXEC
000018*
000019 EXEC SQL
000020 DECLARE C1 CURSOR FOR
000021 SELECT PNO FROM STOCK WHERE :PRDCTNAM = 'TIRE'
000022 END-EXEC
000023 EXEC SQL OPEN C1 END-EXEC.
000024 EXEC SQL FETCH C1 INTO :PRDCTNUM INTO :PRDCTNAM END-EXEC.
000025 .

```

SP8601.cob (17) : JMN2633I-S The SQL statement is invalid. ODBC-8601E Keyword 'USING' or keyword 'INTO' is duplicated.

SP8601.cob (24) : JMN2633I-S The SQL statement is invalid. ODBC-8601E Keyword 'USING' or keyword 'INTO' is duplicated.

### Explanation

The example above contains the following errors:

- Multiple USING phrases were specified in the EXECUTE statement.
- Multiple INTO phrases were specified in the FETCH statement.

### ODBC-8718E

#### INTO clause is specified in query expression.

#### Example

```

000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. SP8718.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007 02 PRDCTNUM PIC S9(4) COMP-5.
000008 02 PRDCTNAM PIC N(10).
000009 01 SQLSTATE PIC X(5).
000010 01 SQLMSG PIC X(128).
000011 01 VAR-IND1 PIC S9(4) COMP-5.
000012 EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014 EXEC SQL
000015 DECLARE C1 CURSOR FOR
000016 SELECT PNO INTO :PRDCTNUM FROM STOCK WHERE :PRDCTNUM = 1
000017 END-EXEC
000018 .

```

SP8718.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8718E INTO clause is specified in query expression.

### Explanation

In the example above, an error is generated because an INTO phrase is specified in a DECLARE CURSOR statement.

### ODBC-8725E

#### Embedded variable name "@1@" is not declared.

#### Parameter Explanation

@1@: Host variable name

## Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8725.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007     02 PRDCTNUM    PIC S9(4) COMP-5.
000008     02 PRDCTNAM    PIC N(10).
000009 01 SQLSTATE       PIC X(5).
000010 01 SQLMSG         PIC X(128).
000011 01 VAR-IND1     PIC S9(4) COMP-5.
000012     EXEC SQL END DECLARE SECTION END-EXEC.
000013 PROCEDURE DIVISION.
000014     EXEC SQL
000015         SELECT PNO INTO :PRDCTNM FROM STOCK WHERE :PRDCTNUM = 1
000016     END-EXEC
000017     .
```

SP8725.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8725E Embedded variable name "PRDCTNM" is not declared.

## Explanation

The host variable not declared is used.

## ODBC-8766E

**Invalid specification in item be subordinate to SQL statement variable"@1@".**

## Parameter Explanation

@1@: Host variable name

### Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8725.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE1.
000007     02 PRDCTNUM1    PIC S9(4) COMP-5.
000008     02 PRDCTNAM1.
000009     03 PRDCTNML1   PIC S9(4) BINARY.
000010     03 PRDCTNMS1  PIC N(8).
000011 01 STOCK-TABLE2.
000012     02 PRDCTNUM2    PIC S9(4) COMP-5.
000013     02 PRDCTNAM2    OCCURS 3 PIC X(10).
000014 01 STOCK-TABLE3.
000015     02 PRDCTNAM3    OCCURS 3 PIC X(10).
000016     02 PRDCTNUM3    PIC S9(4) COMP-5.
000017 01 STOCK-TABLE4.
000018     02 PRDCTNUM4    OCCURS 2 PIC S9(4) COMP-5.
000019     02 PRDCTNAM4    OCCURS 4 PIC X(10).
000020 01 SQLSTATE       PIC X(5).
000021 01 SQLMSG         PIC X(128).
000022 01 VAR-IND1     PIC S9(4) COMP-5.
000023     EXEC SQL END DECLARE SECTION END-EXEC.
000024 PROCEDURE DIVISION.
000025     EXEC SQL
000026         SELECT PNO INTO :STOCK-TABLE1 FROM STOCK WHERE PNAME = 'TIRE'
000027     END-EXEC
000028     EXEC SQL
```

```

000029      SELECT PNO INTO :STOCK-TABLE2 FROM STOCK WHERE PNAME = 'WHEEL'
000030      END-EXEC
000031      EXEC SQL
000032      SELECT PNO INTO :STOCK-TABLE3 FROM STOCK WHERE PNAME = 'SHIFT'
000033      END-EXEC
000034      EXEC SQL
000035      SELECT PNO INTO :STOCK-TABLE4 FROM STOCK WHERE PNAME = 'ENGIN'
000036      END-EXEC
000037      .

```

SP8766.cob (26) : JMN2633I-S The SQL statement is invalid. ODBC-8766E Invalid specification in item be subordinate to SQL statement variable"STOCK-TABLE1".

SP8766.cob (29) : JMN2633I-S The SQL statement is invalid. ODBC-8766E Invalid specification in item be subordinate to SQL statement variable"STOCK-TABLE2".

SP8766.cob (32) : JMN2633I-S The SQL statement is invalid. ODBC-8766E Invalid specification in item be subordinate to SQL statement variable"STOCK-TABLE3".

SP8766.cob (35) : JMN2633I-S The SQL statement is invalid. ODBC-8766E Invalid specification in item be subordinate to SQL statement variable"STOCK-TABLE4".

### Explanation

The following host variables cannot be used.

- Host variable which contains group item.
- Host variable where host variable with multiple columns specified exists together to host variable with multiple rows specified.
- Host variable with a table specified with different number of occurrence.

### ODBC-8772E

#### Data type of SQL statement variable "@1@" must be character string type.

#### Parameter Explanation

@1@: Host variable name

#### Example

```

000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8772.
000003 DATA            DIVISION.
000004 WORKING-STORAGE SECTION.
000005      EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007 02 PRDCTNUM      PIC S9(4) COMP-5.
000008 02 PRDCTNAM      PIC N(10).
000009 01 SQLSTATE       PIC X(5).
000010 01 SQLMSG         PIC X(128).
000011 01 VAR-IND1     PIC S9(4) COMP-5.
000012 01 SQLSTMT1     PIC X(500).
000013 01 SQLSTMT2     PIC S9(9) COMP-5.
000014      EXEC SQL END DECLARE SECTION END-EXEC.
000015 PROCEDURE DIVISION.
000016      MOVE "SELECT PNO FROM STOCK WHERE PNAME = ?" TO SQLSTMT1
000017      MOVE 9999 TO SQLSTMT2
000018      EXEC SQL PREPARE STMT1 FROM :SQLSTMT2 END-EXEC
000019      EXEC SQL EXECUTE IMMEDIATE :SQLSTMT2 END-EXEC
000020      .

```

SP8772.cob (18) : JMN2633I-S The SQL statement is invalid. ODBC-8772E Data type of SQL statement variable "SQLSTMT2" must be character string type.

SP8772.cob (19) : JMN2633I-S The SQL statement is invalid. ODBC-8772E Data type of SQL statement variable "SQLSTMT2" must be character string type.

## Explanation

Errors that can cause this message to be output include:

- The SQL statement variables of the EXECUTE IMMEDIATE statement are national item or not character strings.
- The SQL statement variables of the PREPARE statement are national item or not character strings.

SQL statement host variables must be fixed-length or variable-length character strings of alphanumeric data item for these statements.

## ODBC-8773E

### SQL statement variable "@1@" must be a fixed length character string.

#### Parameter Explanation

@1@: Host variable name

#### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8773.  
000003 DATA            DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007 02 PRDCTNUM      PIC S9(4) COMP-5.  
000008 02 PRDCTNAM      PIC N(10).  
000009 01 SQLSTATE      PIC X(5).  
000010 01 SQLMSG        PIC X(128).  
000011 01 VAR-IND1      PIC S9(4) COMP-5.  
000012 01 SQLCON1       PIC X(30).  
000013 01 SQLCON2.  
000014 02 CONLG        PIC S9(4) COMP-5.  
000015 02 CONNM        PIC X(30).  
000016     EXEC SQL END DECLARE SECTION END-EXEC.  
000017 PROCEDURE DIVISION.  
000018     MOVE 9          TO CONLG  
000019     MOVE "DBCONNECT" TO CONNM  
000020     EXEC SQL CONNECT TO :SQLCON2 END-EXEC  
000021     EXEC SQL SET CONNECTION :SQLCON2 END-EXEC  
000022     EXEC SQL DISCONNECT :SQLCON2 END-EXEC  
000023     .
```

SP8773.cob (20) : JMN2633I-S The SQL statement is invalid. ODBC-8773E Data type of SQL statement variable "SQLCON2" must be fixed length character string type.

SP8773.cob (21) : JMN2633I-S The SQL statement is invalid. ODBC-8773E Data type of SQL statement variable "SQLCON2" must be fixed length character string type.

SP8773.cob (22) : JMN2633I-S The SQL statement is invalid. ODBC-8773E Data type of SQL statement variable "SQLCON2" must be fixed length character string type.

## Explanation

Errors that can cause this message to be output include:

- The connection identifier specified for the CONNECT statement is variable length.
- The connection identifier specified for the SET CONNECTION statement is variable length.
- The connection identifier specified for the DISCONNECT statement is variable length.

The server name, connection name, and user name must each be a character string literal or a host variable whose data type is fixed-length character string.



## ODBC-8956E

### Stored procedure name "@1@" is too long.

#### Parameter Explanation

@1@: stored procedure name

#### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8956.  
000003 DATA            DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007     02 PRDCTNUM   PIC S9(4) COMP-5.  
000008     02 PRDCTNAM  PIC X(20).  
000009 01 SQLSTATE     PIC X(5).  
000010 01 SQLMSG      PIC X(128).  
000011     EXEC SQL END DECLARE SECTION END-EXEC.  
000012 PROCEDURE DIVISION.  
000013     EXEC SQL  
000014         CALL P1PPPPPPPP2PPPPPPPP3PPPPPPPP4PPPPPPPP5PPPPPPPP6PPPPPPPP7  
000015-            P8PPPPPPPP9PPPPPPPP10PPPPPPPP11PPPPPPPP12PPPPPPPP13PPPPPPPP14  
000016-            P15PPPPPPPP16PPPPPPPP17PPPPPPPP18PPP()  
000017     END-EXEC  
000018     .
```

SP8956.cob (14) : JMN2633I-S The SQL statement is invalid. ODBC-8956E Stored procedure name "P1PPPPPPPP2PPPPPPPP3PPPPPPPP4PPPPPPPP5PPPPPPPP6PPPPPPPP7PPPPPPPP8PPPPPPPP9PPPPPPPP10PPPPPPPP11PPPPPPPP12PPPPPPPP" is too long.

#### Explanation

A stored procedure name consisting of 91 or more characters is specified. A stored procedure name must be a list of alphanumeric characters of the appropriate language that does not exceed 90 characters.

## ODBC-8957E

### SQL statement is too long.

#### Example

```
000001 IDENTIFICATION DIVISION.  
000002 PROGRAM-ID.      SP8957.  
000003 DATA            DIVISION.  
000004 WORKING-STORAGE SECTION.  
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.  
000006 01 STOCK-TABLE.  
000007     02 PRDCTNUM   PIC S9(4) COMP-5.  
000008     02 PRDCTNAM  PIC N(10).  
000009 01 SQLSTATE     PIC X(5).  
000010 01 SQLMSG      PIC X(128).  
000011 01 VAR-IND1     PIC S9(4) COMP-5.  
000012 01 SQLSTMT1    PIC X(16385).  
000013     EXEC SQL END DECLARE SECTION END-EXEC.  
000014 PROCEDURE DIVISION.  
000015     EXEC SQL PREPARE STMT1 FROM :SQLSTMT1 END-EXEC  
000016     .
```

SP8957.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8957E SQL statement is too long.

## Explanation

A SQL statement is 16385 bytes or more. A SQL statement can be up to 16,384 bytes in length. The maximum length may be shorter depending on the ODBC driver environment.

## ODBC-8992E

**"@1@" is unsupported.**

### Parameter Explanation

@1@: clause

### Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8992.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007     02 PRDCTNUM    PIC S9(4) COMP-5.
000008     02 PRDCTNAM    PIC N(10).
000009 01 SQLSTATE      PIC X(5).
000010 01 SQLMSG        PIC X(128).
000011 01 VAR-IND1     PIC S9(4) COMP-5.
000012 01 SQLSTMT     PIC X(500).
000013     EXEC SQL END DECLARE SECTION END-EXEC.
000014 PROCEDURE DIVISION.
000015     MOVE "SELECT PNO FROM STOCK WHERE PNAME = ?" TO SQLSTMT
000016     EXEC SQL PREPARE STMT1 FROM :SQLSTMT END-EXEC
000017     EXEC SQL EXECUTE STMT1 USING DESCRIPTOR :PRDCTNAM END-EXEC
000018     .
```

SP8992.cob (17) : JMN2633I-S The SQL statement is invalid. ODBC-8992E "(SQL)DESCRIPTOR" is unsupported.

## Explanation

A clause that is not supported by this compiler is used. The descriptor cannot be used by this compiler.

## ODBC-8994W

**Values in OCCURS clause as each SQL statement variable are different. Minimum"@1@" is valid.**

### Parameter Explanation

@1@: Minimum value of OCCURS clause

### Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.      SP8994.
000003 DATA             DIVISION.
000004 WORKING-STORAGE SECTION.
000005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000006 01 STOCK-TABLE.
000007     02 PRDCTINF     OCCURS 2 PIC X(1).
000008     02 PRDCTNUM    OCCURS 3 PIC S9(4) COMP-5.
000009     02 PRDCTNAM    OCCURS 4 PIC X(10).
000010 01 SQLSTATE      PIC X(5).
000011 01 SQLMSG        PIC X(128).
000012 01 VAR-IND1     PIC S9(4) COMP-5.
000013     EXEC SQL END DECLARE SECTION END-EXEC.
000014 PROCEDURE DIVISION.
000015     EXEC SQL
000016     SELECT PINF,PNO,PNAME INTO :PRDCTINF, :PRDCTNUM, :PRDCTNAM
```

```
000017          FROM STOCK WHERE PNAME = 'TIRE'  
000018      END-EXEC  
000019      .
```

SP8994.cob (16) : JMN2754I-I ODBC-8994W Values in OCCURS clause as each SQL statement variable are different. Minimum"2" is valid.

### Explanation

The occurrence number specified in the subordinate items of a host variable with multiple rows specified and host variable with a table specified used in one SQL statement must all be the same. If they are not the same, the smaller number is used.

# Chapter 3 COBOL Runtime System Messages

This section explains messages written by the COBOL runtime system.

## 3.1 Message Format

COBOL runtime messages are written in the format:

```
date-and-time message-number [process-id thread-id] message-text
```

### Date-and-time

The date and time are displayed in the format:

```
YYYY-MM-DD HH:MM:SS (Year-Month-Day Hour:Minute:Second)
```

The time is displayed in local time.

### Message-number

The message number is displayed in the format:

```
JMPnnnni-w
```

- JMP : Prefix indicates a runtime system message.
- nnnn : Message serial number.
- i : Characters to indicate severity and response required.
  - I : Operator response is unnecessary.
  - A : Operator response is necessary.
- w : Severity code.

The relationship between the severity code and return code is shown in table below.

If a COBOL program is directly executed from a batch file, the return code (PROGRAM-STATUS) of the COBOL program is reflected to ERRORLEVEL immediately after execution of the COBOL program in the batch file. For how to use ERRORLEVEL, refer to the manual or on-line help of each system.

Table 3.1 Severity codes in execution-time messages

Severity Code	Level	Meaning	Effect on Return Code
I (INFORMATION)	Transmitting message	Information detected by the runtime system. The program can be executed normally.	Not affected
W (WARNING)	Warning error	The program can be executed normally. However, check whether the execution results are as expected.	Not affected
E (ERROR)	Recoverable error	There is an error, but processing is continued according to the appropriate assumption.	Affected (*1)
U (UNRECOVERABLE)	Unrecoverable error	The system stops program execution and performs termination processing.	Affected (*2) (*3)

\*1 : If an E-level message output, a return code is set when the COBOL execution unit terminates. The E-level message return code is assumed to be 12. It is compared to the value in special register PROGRAM-STATUS, and the larger value is set as the return code.

\*2 : If a U-level message is output, the program terminates abnormally. In this case, 255 is set as the return code. When the COBOL program is forced to terminate, 255 is also set as the return code.

\*3 : When a U Level message is displayed, set the COBOL Error Report to runs automatically so that the COBOL Error Report can detect errors and display a diagnostic report. Refer to "Using the COBOL Error Report" in Chapter 2 of the "NetCOBOL Debugging Guide".

## Process ID and Thread ID

The process ID and thread ID of the program in which an error is detected are indicated in the following format:

```
[PID:mmmmmmmm TID:nnnnnnnn]
```

- mmmmmmmm : Process ID of the application in which an error is detected
- nnnnnnnn : Thread ID of the application in which an error is detected

## 3.2 Message Explanation Format

The "Message Details" topic lists the messages written by the COBOL runtime system. For each message it explains the system action and appropriate programmer responses in the following format:

```
Message-number
Message-text (*1)
System action
    System action or runtime system action - for example, whether or not processing is terminated.
Explanation
    Explanation of the message text
Response
    Action to be taken by the programmer
```

\*1 : "\$n" in the message text is a parameter indicating variable information. The parameter is replaced by a program name or file name in the actual message.

When access or file names are parameters in the message text they should be interpreted as follows:

### Access name

An access name is used for connecting a program and file entity. The access name corresponds to the runtime environment variable name that specifies the file entity name at runtime. The access name also corresponds to the file identifier specified in the ASSIGN clause.

### File name

A file name is a file entity name. The file name corresponds to the file identifier literal or data name specified in the ASSIGN clause. "?" is displayed if the data name is not recognized.

If DISK or PRINTER is specified in the ASSIGN clause, the file name corresponds to the file name specified in the SELECT clause.

The file name specified in the SELECT clause is enclosed in parentheses in the message text.

### Error address

The error address indicated in a parameter providing variable information in the message text identifies the program in which an error is detected and the location in the program at which the error is detected.

The error address is indicated in the following format.

- When the error is detected by the program definition

```
PGM = external program name. LINE=[COPY-qualification-value-]user-line-number
```

- When the error is detected by the method definition

```
CLASS = name of the class in which the method is defined
METHOD = method name. LINE=[COPY-qualification-value-]user-line-number
```

For the format of COPY-qualification-value and user-line-number, refer to "Source Program Listing" in Chapter 2 of the "NetCOBOL Debugging Guide".

 **Note**

The language for Runtime Error Messages is decided when the runtime environment is established.

If there are no messages in an applicable language, Runtime Error Messages are displayed in English.

### 3.3 Message Details

Messages are listed in numeric order.

#### 3.3.1 JMP0000 - JMP0099

0001      0002      0004      0007      0009      0010      0012      0015      0016      0018  
 0019      0020      0022      0024      0026      0031      0032      0034      0035      0036  
 0061      0062      0070      0071      0072      0078      0081      0085      0086      0089  
 0092      0093      0096      0097

#### JMP0001I-U

##### OPEN ERROR. FILE=\$1.'\$2'. \$3

##### System action

Abnormally terminates the program.

##### Response

Referring to the character string specified in \$2, correct the cause of the error involving the file assigned to the access name (\$1) corresponding to the function name SYSIN or SYSOUT. Then retry the operation. The error address is set in \$3.

Table 3.2 \$2 of JMP0001I-U

\$2	Description	Programmer Response
NOT ASSIGNED	No access name (\$1) has been assigned.	Assign an access name (\$1).
INVALID ASSIGN	The keyword specified for assigning the file for SYSOUT contains an error.	Check whether the character string specified following the file name is valid for an expanded function. (*1)
INVALID PATH-NAME	The path name of the file contains an error.	Check whether the path name of the file is correctly specified.
FILE LOCK	The file assigned for SYSOUT is in the locked state.	Retry the operation. If this locking error frequently occurs, it may be an operational problem.
MEMORY SHORTAGE	There is insufficient memory for opening the file.	Refer to " <a href="#">D.1 Virtual Memory Shortages</a> ".
READ ONLY	The file assigned for SYSOUT is a read-only file.	Change the access permission to allow writing to the file.
NOT EXISTED	The file assigned for SYSIN was not found.	Create the file before executing the program.

\$2	Description	Programmer Response
LOCK FULL	Too many OPEN requests were issued for the same file, and the lock table became full.	Retry the operation. If this locking error frequently occurs, it may be an operational problem. (*2)
INVALID FILE STRUCTURE	The code system (ACP,UCS-2,UTF-8) of the file that does assign to the access name(\$1) and the runtime code set are different.	Match the code system of the file that does assign to the access name(\$1) and the runtime code set.
THREAD SYNC ABANDONED	A program terminated abnormally on Synchronization processing of the thread. The locking property was not correctly unlocked.	Determine if a thread had just been terminated abnormally. .
THREAD SYNC ERROR (0XXXX)	Synchronization processing of the thread failed.	Correct the cause of the error according to the specified error code. (*3)
ERRCD=0XXXX	Another error occurred.	Correct the cause of the error according to the specified error code. (*3)
RMERR=0XXXX	This indicates an error code received from the runtime system.	Since this is considered a system error, open a support incident to obtain assistance from a supplier.
CONVERT ERROR (0XXXX)	Changing file name code is failed	Correct the cause of the error according to the specified error code. (*3)  Error code 0xFFFFFFFF indicates that characters that are not in ACP range were used in an inappropriate area.

\*1 : Refer to "File Output Extension Function for the DISPLAY Statement" in Chapter 10 of the "NetCOBOL User's Guide".

\*2 : The maximum number of OPEN requests that can be accepted concurrently for the same file is 1024.

\*3 : For details, refer to "[Appendix A System Error Codes](#)".

## JMP0002I-U

### PROGRAM '\$1' IS RECURSIVELY CALLED.

#### System action

Abnormally terminates the program.

#### Explanation

The program (\$1) was called, and is re-called before it terminates (before execution of the STOP RUN or EXIT PROGRAM statement).

#### Response

Check the CALL statement in the called program.

## JMP0004I-U

### LAST STATEMENT IN USE FOR DEAD-LOCK EXECUTED. \$1.

#### System action

Abnormally terminates the program.

#### Response

Use the STOP RUN statement, EXT PROGRAM statement, or GO TO statement so that the end of the USE FOR DEAD-LOCK procedure will not be reached. The error address is set in \$1.

## JMP0007I-W

---

### INVALID OPTION. \$1.

#### System action

Ignores the runtime option (\$1), and continues processing.

If the specified runtime option is SWITCH, the SWITCH runtime option is enabled as follows:

If the digit count of the number in the specified numeric part is smaller than eight, the number is written left-justified.

If the digit count is greater than eight, the high-order eight digits are valid.

#### Response

Specify the correct runtime option, then re-execute.

## JMP0009I-U

---

### INSUFFICIENT STORAGE AVAILABLE. '\$1'

#### System action

Abnormally terminates the program.

#### Response

The error code is set in \$1. For the cause and action to be taken, see "D.1 Virtual Memory Shortages", "Appendix A System Error Codes", and the on-line help of Microsoft Visual C++ development system. After the action is taken, re-execute the program.

## JMP0010I-U

---

### LIBRARY WORK AREA IS BROKEN.

#### System action

Abnormally terminates the program.

#### Explanation

The work area of the COBOL runtime system is broken.

#### Response

Check the program as follows:

- If an item including a subscript, index, reference modification, or OCCURS DEPENDING ON clause is referred to, confirm that the item is within the reference range. This check can be made by specifying the CHECK option.
- If a parameter was specified for transferring data via the CALL statement, confirm that the sender and receiver have the same parameter attributes. Especially, check the length attribute.
- If a file is used, confirm that the record is referenced in the correct length. For example, if the maximum record length is used instead of the actual record length and the remaining portion is filled with spaces, the record is referenced incorrectly.

## JMP0012I-U

---

### NESTED PROGRAM IS RECURSIVELY CALLED IN PROGRAM \$1.

#### System action

Abnormally terminates the program.

#### Explanation

The nested program included in the outermost program (\$1) was called, and the nested program is re-called before it terminates (before execution of the STOP RUN or EXIT PROGRAM statement).



## Response

Check the CALL statement in the called program.

## JMP0015I-U

### CANNOT CALL PROGRAM '\$1'. \$2. \$3

#### System action

Abnormally terminates the program.

#### Explanation

Please remove the cause of the error referring to error code set to \$2, and execute it again.

Moreover, please confirm whether entry information on the program is correctly specified.

The nether table shows the meaning and the treatment of the character string set to \$2.

The error address is set to \$3.

Refer to "Entry Information for Subprograms" in the Chapter 5 of the "NetCOBOL User's Guide", "[Appendix A System Error Codes](#)", and the on-line help of Microsoft Visual C++ development system.

## Response

Eliminate the cause of the error according to the error code written for \$2, then re-execute.

Table 3.3 \$2 of JMP0015I-U

\$2	Description	Programmer Response
NO PROGRAM NAME	A program name is not entered in the CALL Statement.	Enter the program name in the CALL Statement.
LOAD=DLL name CODE=0xXXXX	DLL loading failed upon invocation. The failed DLL name is displayed in LOAD, and the error code from the system is displayed in CODE.	Please correspond referring to the table below.
GET ADDRESS CODE=0xXXXX	Calling the function failed in DLL. The error code is displayed in CODE.	Please correspond referring to the table below.

Table 3.4 Error Code from System

Code	Meanings	Programmer Response
126(0x7E)	The specified module was not found.	Please confirm the PATH of the called program is correctly specified.  Please confirm DLL of the called program exists in either of the following folders. <ul style="list-style-type: none"><li>- Folder specified for environment variable PATH</li><li>- Folder in which caller is programmed</li><li>- Current folder</li></ul> Check the specification of compilation option ALPHAL to confirm whether the called program name is lowercase or uppercase letters.
127(0x7F)	The specified procedure was not found.	The name of the called program must confirm whether EXPORT is done in DLL of the called program. (*)
193 (0xC1)	It is not a valid Win32 application.	[Win32] Please confirm that the DLL of the called program is a 32bit application.  [Win64] Please confirm that the DLL of the called program is a 64bit application.

Code	Meanings	Programmer Response
1114(0x45A)	It failed in the execution of dynamic link library (DLL) initialization routine.	<p>Please confirm whether to specify C run time library LIBCMT.LIB when DLL of the called program is linked. Please deal as follows when you specify LIBCMT.LIB.</p> <ul style="list-style-type: none"> <li>- When DLL is made only in COBOL</li> </ul> <p>Please stop the specification of LIBCMT.LIB when linking, specify option "/NOENTRY" of the link, and make DLL.</p> <ul style="list-style-type: none"> <li>- When DLL is made by COBOL and C</li> </ul> <ul style="list-style-type: none"> <li>- When making it to same DLL</li> </ul> <p>Please stop the specification of LIBCMT.LIB when linking, specify MSVCRT.LIB, and make DLL. Please translate again specifying "/MD" when the C program is translated by assembler option "/MT".</p> <ul style="list-style-type: none"> <li>- When making it to separate DLL</li> </ul> <p>Please do not specify LIBCMT.LIB when you make DLL of COBOL, specify option "/NOENTRY" of the link, and make DLL.</p> <p>Please translate assembler option "/MD" specifying it when you make DLL of C, and make DLL.</p>
1157(0x485)	One is not found among the library files necessary for the execution of this application.	<p>Please confirm DLL of the called program exists in either of the following folders.</p> <ul style="list-style-type: none"> <li>- Folder specified for environment variable PATH</li> <li>- Folder in which caller is programmed</li> <li>- Current folder</li> </ul>

- [Win32]

\* : If calling the function in the called DLL fails, check to see if the function name in the DLL can be referenced from the outside. For this purpose, the DUMPBIN command can be used. Refer to "DUMPBIN command" in Appendix I of the "NetCOBOL User's Guide".

- [Winx64]

\* : If calling the function in the called DLL fails, check to see if the function name in the DLL can be referenced from the outside. For this purpose, the LINK command /DUMP option can be used. Refer to "LINK Command /DUMP option" in Appendix I of the "NetCOBOL User's Guide".

## JMP0016I-U

---

**READ/WRITE ERROR. FILE='\$1'. '\$2'. \$3**

### System action

Abnormally terminates the program.

### Response

Referring to the character string specified in \$2, correct the cause of the error involving the file assigned to the access name (\$1), and then retry the operation. The error address is set in \$3.

Table 3.5 \$2 of JMP0016I-U

\$2	Description	Programmer Response
MAXIMUM SIZE	The maximum file size was exceeded.	Take appropriate action, such as splitting the file into multiple files so that no single file exceeds the maximum size.
NO SPACE	There is insufficient space.	Check the free disk space. If a file capacity limit has been set by a command, increase the limit value and retry the operation.
THREAD SYNC ABANDONED	A program terminated abnormally on Synchronization processing of the thread. The lock property right was not correctly unlocked.	Determine if a thread was just terminated abnormally.
THREAD SYNC ERROR (0xXXXX)	Synchronization processing of the thread failed.	Correct the cause of the error according to the specified error code. (*1)
ERRCD=0xXXXX	Another error occurred.	Correct the cause of the error according to the specified error code. (*1)
RMERR=0xXXXX	An error code was received from the runtime system.	Since this is considered a system problem, open a support incident to obtain assistance from a supplier.

\*1 : For details, refer to "[Appendix A System Error Codes](#)".

## JMP0018I-U

### CLOSE ERROR.FILE='\$1'. '\$2'. '\$3'

#### System action

Abnormally terminates the program.

#### Response

Referring to the character string specified in \$2, correct the cause of the error involving the file assigned to the access name (\$1), and then retry the operation. The error address is set in \$3.

Table 3.6 \$2 of JMP0018I-U

\$2	Description	Programmer Response
NO SPACE	There is insufficient space.	Check the free disk space. If a file capacity limit has been set by a command, increase the limit value and retry the operation.
ERRCD=0xXXXX	Another error occurred.	Correct the cause of the error according to the specified error code. (*1)
RMERR=0xXXXX	An error code was received from the runtime system.	Since this is considered a system problem, open a support incident to obtain assistance from a supplier.

\*1 : For details, refer to "[Appendix A System Error Codes](#)".

## JMP0019I-U

### EXTERNAL DATA ATTRIBUTE ERROR. '\$1'. '\$2', '\$3'

#### System action

Abnormally terminates the program.

#### Response

Confirm that the program (\$2) in which the error was detected and the program (\$3) which first defined the EXTERNAL data (\$1) have the same \$1 definition. Or, confirm that contents of compiler option RCS matches

## JMP0020I-U

### INVALID ENTRY INFORMATION. PGM=\$1.\$2

#### System action

Abnormally terminates the program.

#### Response

Check whether the entry information (DLL name, program name and the second entry point name of the called program (\$1) is correctly defined in the entry information file specified via the environment variable @CBR\_ENTRYFILE or in the initialization file for execution.

The error address is set in \$2.

Refer to "Entry Information for Subprograms" in Chapter 5 of the "NetCOBOL User's Guide".

## JMP0022I-U

### EXTERNAL FILE ATTRIBUTE ERROR. FILE=\$1. PGM=\$2,\$3. '\$4'.

#### System action

Abnormally terminates the program.

#### Response

Confirm that the program (\$2) in which the error was detected and the program (\$3) that is first defined the EXTERNAL file (\$1) have the same \$1 definition. A file name is usually written for \$1. If the file name cannot be written, the file definition number that appeared in the source program is written. Followings show the contents of \$4 of JMP0022I-U.

Table 3.7 \$4 of JMP0022I-U (Common file organizations)

\$4	Error Contents
ACCESS-MODE	Access mode
ACCESS-NAME	Access name
FILE-ORG	File organization
LOCK-MODE	LOCK MODE clause specification
MAXRL	Maximum record length
MINRL	Minimum record length
OPTIONAL	Presence or absence of OPTIONAL clause specification
RCS	Contents of compiler option RCS
REC-MODE	Record format

Table 3.8 \$4 of JMP0022I-U (Line sequential file)

\$4	Error Contents
REC-ATR	Record item attribute

Table 3.9 \$4 of JMP0022I-U (Relative/Indexed file)

\$4	Error Contents
ALT-KEY	Number of alternate record keys
KEY-ATR	Key item attribute
KEY-DISP	Displacement of the key item in a record
KEY-DUPL	Presence or absence of DUPLICATES clause specification
KEY-LEN	Key length

\$4	Error Contents
REL-ATR	Attribute of the relative key item
REL-COL	Column count of the relative key item
REL-KEY	Presence or absence of RELATIVE KEY clause specification
REL-LEN	Length of the relative key item
REL-NAME	Name of the relative key item

Table 3.10 \$4 of JMP0022I-U (Print file)

\$4	Error Contents
ADVANCING	Presence or absence of the WRITE statement in which ADVANCING is specified
CHAR-TYPE	Presence or absence of specification of how to write the CHARACTER TYPE clause for format 3
CODE	Presence or absence of specification of the CODE-SET clause
CTLCHR	Attribute of the control statement area
LINAGE	Presence or absence of specification of the LINAGE clause
LNG-ATR	Attribute and column count of the LINAGE data item
LNG1-INTEG	Integer of LINAGE data item 1
LNG1-NAME	Name of LINAGE data item 1
LNG2-INTEG	Integer of LINAGE data item 2
LNG2-NAME	Name of LINAGE data item 2
LNG3-INTEG	Integer of LINAGE data item 3
LNG3-NAME	Name of LINAGE data item 3
LNG4-INTEG	Integer of LINAGE data item 4
LNG4-NAME	Name of LINAGE data item 4
REC-LEN	Record length

Table 3.11 \$4 of JMP0022I-U (Presentation file)

\$4	Error Contents
DESTINATION	Contents of SYMBOLIC DESTINATION clause
DESTINATION1	Presence or absence of DESTINATION-1 clause
DESTINATION2	Presence or absence of DESTINATION-2 clause
DESTINATION3	Presence or absence of DESTINATION-3 clause
DEST-CNTL	Presence or absence of DESTINATION CONTROL clause or data item length
END-KEY	Presence or absence of END KEY clause
MSG-CODE	Presence or absence of MESSAGE CODE clause or data item length
MSG-MODE	Presence or absence of MESSAGE MODE clause
MSG-OWNER	Presence or absence of MESSAGE OWNER clause
PROC-CNTL	Presence or absence of PROCESSING CONTROL clause, or data item length
PROC-MODE	Presence or absence of PROCESSING MODE clause
PROC-TIME	Presence or absence of PROCESSING TIME clause
SEL-FUNC	Presence or absence of SELECTED FUNCTION clause
SESS-CNTL	Presence or absence of SESSION CONTROL clause

\$4	Error Contents
SYMBOLIC-DEST	Presence or absence of SYMBOLIC DESTINATION clause
UNIT-CNTL	Presence or absence of UNIT CONTROL clause or data item length
FMT-CNTL	Presence or absence of FORMAT CONTROL clause
FMT-CNTL1	Presence or absence of FORMAT CONTROL clause or length of data item 1
FMT-CNTL2	Presence or absence of FORMAT CONTROL clause or length of data item 2
FORMAT	Presence or absence of FORMAT clause
GROUP	Presence or absence of GROUP clause
MSG-CLASS	Presence or absence of MSG-CLASS clause

#### JMP0024I-U

---

##### USE FOR DEAD-LOCK NOT FOUND.

###### System action

Abnormally terminates the program.

###### Response

A deadlock exit subroutine call was executed, but the deadlock exit could not be found in the deadlocked program or a parent program that called the deadlocked program with a CALL statement. Confirm that a deadlock exit is registered using a USE FOR DEAD-LOCK statement.

#### JMP0026I-W

---

##### NO 'ON EXCEPTION' STATEMENT EXISTS, WHEN EXCEPTION OCCURRED ON '\$2 \$1' STATEMENT.

###### System action

Continues processing.

###### Response

Specify the ON EXCEPTION clause in the \$2 (ACCEPT or DISPLAY) statement corresponding to the \$1 function name (ARGUMENT-VALUE or ENVIRONMENT-VALUE).

#### JMP0031I-U

---

##### TWO OR MORE THREADS WERE EXECUTED IN SINGLETHREAD MODE.

###### System action

Abnormally terminates the program.

###### Response

To execute a program by multiple threads, server-product needs to be installed. Confirm server-product is installed.

If server-product is installed, possible causes are as follows. Eliminate the cause of error and then rerun the program.

- The program is not compiled with the compiler option THREAD (MULTI) specified.
- The environment variable @CBR\_THREAD\_MODE=SINGLE has been specified.

#### JMP0032I-U

---

##### PROGRAM '\$1' CANNOT BE EXECUTED.

### System action

Abnormally terminates the program.

### Response

- The program \$1 compiled with the compiler option THREAD (MULTI) specified may have been deleted from memory, the possible causes of which are shown below. Change the program to the dynamic program structure to ensure that it will not be removed from memory or use the CANCEL statement to remove it from memory and then rerun the program.
  - The program \$1 was removed from memory because it is linked statically or dynamically to a program removed from memory by the CANCEL statement.
  - The program \$1 was removed from memory by a system function.
- Two or more programs having the same entry name exist in a run unit, the possible causes of which are shown below. Eliminate the cause of error and return the program.
  - Different programs having the same name exist in the run unit. Change the program names in the run unit such that they are all different.
  - A program is statically linked to two or more DLLs. Change the link format of the program to be shared to the dynamic link.

## JMP0034I-U

---

### THREAD SYNCHRONIZATION FAILED. '\$1' . \$2

### System action

Abnormally terminates the program.

### Response

Remove the cause of error while referring to the character string indicated in \$1, then rerun the program. The table below provides explanations and responses of the character strings indicated in \$1. \$2 indicates an error address.

Table 3.12 \$1 of JMP0034I-U

\$1	Description	Programmer response
ABANDONED	The program in a thread terminated abnormally, and so lock ownership could not be released normally.	If a thread terminates abnormally immediately before this error, determine the cause and respond accordingly.
CODE = 0xXXXX	A system error code is indicated.	Determine the cause while referring to the explanation on the system error code and respond accordingly.

## JMP0035I-U

---

### THE SINGLETHREADED PROGRAM CANNOT BE EXECUTED IN THE MULTITHREAD MODE. '\$1'

### System action

Abnormally terminates the program.

### Response

A single thread program (\$1) cannot be executed in multithread mode. Determine whether a program compiled with the compiler option THREAD (SINGLE) specified or a program compiled by a COBOL product not supporting the multithread is included, then rerun the program.

## JMP0036I-U

---

### CANNOT RUN PROGRAM WITH COMPILER OPTION '\$1' IN THIS SYSTEM. \$2

### System action

Abnormally terminates the program.

### Response

Check for a system in which the specified program (\$2) with the compiler option set up in \$1 is operable. Then, rerun the program in that system.

## JMP0061I-U

---

### INVALID CHARACTER CODE OF THE FILE. '\$1' \$2

#### System action

Abnormally terminates the program.

#### Response

The character-code for the file is not correct. Please confirm the BOM (Byte Order Mark) of the file is set to \$1.

Refer to "Resources" in Chapter 20 of the "NetCOBOL User's Guide" for the character-code that can be used as a resource for NetCOBOL.

The error address is set to \$2.

## JMP0062I-U

---

### CODE CONVERSION LIBRARY CANNOT BE LOADED. \$1 \$2 \$3

#### System action

Abnormally terminates the program.

#### Response

Refer to the character string indicated in \$1 and \$2 and remove the cause of error. Then rerun the program. \$1 is the type of the code conversion library (ICONV or SYSTEM), and \$2 is the error code from system. \$3 indicates an error address.

The type set to \$1 shows the code conversion library specified for environment variable @CBR\_CONVERT\_CHARACTER.

Please confirm that the run time system is correctly installed when \$1 is ICONV.

Refer to "@CBR\_CONVERT\_CHARACTER(Specify the code conversion library)" in Chapter 5 of the "NetCOBOL User's Guide".

## JMP0070I-I

---

### THE OPERATION INFORMATION ON THE PROGRAM. VERSION='\$1' THREAD-MODE='\$2' INIT-FILE='\$3' SECTION='\$4'

#### System action

Continues processing.

#### Response

Because environment variable @CBR\_CBRINFO = YES is specified, information of the executing program is output. Check the version and level (\$1), thread mode (\$2), and runtime initialization file name (\$3) of the runtime system in progress from the output information. If the section of the runtime initialization file is effective, the section name (\$4) is output. If no runtime initialization file is used, the character string "NONE (EXE: folder-name DLL: folder-name)" indicating the folder searched for in a runtime initialization file is set in \$3. For information on using the runtime initialization file, refer to "Runtime Initialization File" in Chapter 5 of the "NetCOBOL User's Guide".

## JMP0071I-U

---

### WORK AREA DESTRUCTION DETECTED. \$1 \$2 BRKADR=0x\$3.



## System action

Abnormally terminates the program.

## Response

The runtime system area has been destroyed for some reasons. Investigate the cause of the destruction by referring to "COBOL Debugging Guide", "Using the Memory Check Function."

Note that the location where the area destruction has been detected is set in \$1, while the program or method name where the area destruction has been detected is set in \$2. (The location is either START indicating the start of the program or that of the procedure of the method or END indicating the end.) The address of the area destroyed is set in \$3.

## JMP0072I-U

### Forced terminated for the restriction. '\$1' \$2

## System action

Abnormally terminates the program.

## Response

A function which is outside the limits of functions for the current product was used. Review the environment referring to information of \$1. A program name or class name and method name are set to \$2.

Table 3.13 \$1 of JMP0072I-U

\$1	Description	Programmer response
PRODUCT-MISSMATCH OBJECT= Development Environment product type RUNTIME= Runtime product type	The runtime product is not equal to the level of the development environment. OBJECT is categorized by Development Environment product types. RUNTIME is categorized by operatable Runtime product types.	Please confirm each Development Environment product type to each Runtime product type.
MULTI-THREADING	Several operations of multi threads cannot run for the run time product.	A COBOL program cannot run in parallel over multiple threads for some run time products. When running a COBOL program over multiple threads, use a run time system that has no limits on functions.
ENCODE-OPTION	There is an error in the ENCODE. Unicode cannot exist together with shift JIS encode with this run time product.	Please confirm the functional restriction, and correct the program.

## JMP0078I-U

### THE PROGRAM NOT SPECIFIED THE PROGRAM WHICH SPECIFIED COMPILE OPTION RCS(UCS2,BE) WAS EXECUTED IN THE SAME PROCESS. '\$1'.

## System action

Abnormally terminates the program.

## Response

Execution of a program with the "RCS(UCS2,BE)" compilation option specified and a program without that option specified within the same process is unfeasible. Use the same compilation option in both programs.

## JMP0081I-U

---

**DIFFERENT CODE SYSTEMS EXIST IN RUN-TIME ENVIRONMENT. '\$1'****System action**

Abnormally terminates the program.

**Response**

Check the operating code system for the program (\$1). Use the same code system for the programs operating in the runtime environment.

**JMP0085I-U**

---

**CANNOT REGISTER THE ENVIRONMENT VARIABLE '\$1'.****System action**

Abnormally terminates the program.

**Response**

The environment variable '\$1' could not be registered. Correct the runtime initial file so that the statement of the total length of environment variable information used by the corresponding program does not exceed 16 kilobytes, then rerun the program.

**JMP0086I-W/U**

---

**CHARACTER CODE CONVERSION FAILED. \$1 \$2****System action**

If there is a character code conversion failure and the severity code of the error message is W, then the default character is passed through and the conversion continues. If the severity code is U, the system abnormally terminates the program.

**Response**

Data that was not in the range of valid characters for the encode method was encountered. Remove the cause of the error by referring to the error code set in \$1 and the error address is set in \$2, and then rerun the program. .

Table 3.14 \$1 of JMP0086I-W/U

\$1	Description	Programmer response
E2BIG 7(0x7)	The code row storage region was insufficient for the converted data.	Ensure the length of the data item is large enough to handle the converted data.
ENOMEM 12(0xc)	Area shortage occurred.	Refer to " <a href="#">D.1 Virtual Memory Shortages</a> ".
EINVAL 22(0x16)	An invalid code was encountered in the originating field.	Confirm that the character data stored in the data item of the originating field is neither MOVE, a partial reference, nor an imperfect condition.
EILSEQ 42(0x2a)	The data stored in the data item of the conversion origin is not in the range of the encode method.	Confirm whether to use the data item with a different encode method by overlapping (REDEFINES phrase) not to store the binary data other than the character-code.

Refer to the "Interstage Charset Manager User's Guide" when you receive an error executing environment variable @CBR\_CONVERT\_CHARACTER=FJ\_ICONV.

See [Appendix A System Error Codes](#)" and the "Visual C++ online help" for assistance with other errors.

**JMP0089I-W**

---

**CANNOT BE OUTPUT THE EVENTLOG TO COMPUTER '\$1'. 'MSGNO=\$2'**

## System action

The system outputs the event log to the user's computer and continues the process.

## Response

Verify that the computer name specified by the event log matches the environment variable information in @CBR\_MESSAGE and execute it again.

- Verify that the computer name designation is correct.
- Verify that the specified computer is active.
- [Win32] Verify that the OS used by the specified computer is Windows(32). The event log can be output only to an OS that has the event log output function.
- [Winx64] Verify that the OS used by the specified computer is Windows(x64). The event log can be output only to an OS that has the event log output function.

Refer to "@CBR\_MESSAGE(Specify the runtime message output destination)" in Chapter 5 of the "NetCOBOL User's Guide".

## JMP0092I-U

---

### CANNOT REGISTER WINDOWCLASS '\$1'.\$2 \$3

#### System action

Abnormally terminates the program.

#### Response

There may be a shortage of virtual memory or the desktop heap may be full. For details on cause and response in the case of a shortage of virtual memory, refer to "D.1 Virtual Memory Shortages" and take appropriate corrective action. For details on cause and response in the case of a full desktop heap refer to the Microsoft Website and take appropriate corrective action.

A detailed error code is set in \$2, and the error address is set in \$3.



When "Event ID243" is stored in the system event log, the space allocated for the desktop heap may not be large enough. For details, refer to "Event Log" in Chapter 18 of the "NetCOBOL User's Guide".

## JMP0093I-U

---

### CANNOT CREATE WINDOW '\$1'.\$2 \$3

#### System action

Abnormally terminates the program.

#### Response

There may be a shortage of virtual memory or the desktop heap may be full. For details on cause and response in the case of a shortage of virtual memory, refer to "D.1 Virtual Memory Shortages" and take appropriate corrective action. For details on cause and response in the case of a full desktop heap refer to the Microsoft Website and take appropriate corrective action.

A detailed error code is set in \$2, and the error address is set in \$3.



When "Event ID243" is stored in the system event log, the space allocated for the desktop heap may not be large enough. For details, refer to "Event Log" in Chapter 18 of the "NetCOBOL User's Guide".

## JMP0096I-U

---

### RUN-TIME INITIALIZATION FILE'S PATH-NAME IS INVALID.

#### System action

Abnormally terminates the program.

#### Response

Check whether the path name of the initial file for execution is specified correctly.

## JMP0097I-U

---

### COBOL RUN-TIME SYSTEM IS NOT INSTALLED PROPERLY. FILE=\$1.

#### System action

Abnormally terminates the program.

#### Response

Confirm the file(\$1) is correctly installed.

Confirm the runtime system is correctly installed. Or, confirm the installation folder of the runtime system is correctly set in the environmental variable PATH.

## JMP0099I-U

---

### FORCED TERMINATION. CODE=\$1.

#### System action

Abnormally terminates the program.

#### Response

Eliminate the cause of the error according to the level U message output before this message. If no level U message was written, check the program for the following:

- If referencing an item using a subscript, index, reference modification, or OCCURS DEPENDING ON clause, check that these are within the reference range (these can be checked by specifying the CHECK(ALL) compiler option).
- If a statement such as CALL contains a parameter for transferring, check that the parameter attributes on the receiving and sending side match (particularly the length). These can be checked by specifying the CHECK(ALL) compiler option.
- If handling a file, check that records are not being referenced with the wrong length (for example, in a variable length input file, check that padding was not inserted using the maximum length when the actual record length should have been processed).

In any other case than those listed above, an internal error probably occurred. Contact Fujitsu Software Support.

The runtime system internal error code is set in \$1.

## 3.3.2 JMP0100 - JMP0199

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0101      0102      0103      0104      0105      0106      0107

## JMP0101I-U

---

### INSUFFICIENT STORAGE AVAILABLE TO CREATE '\$1' OF CLASS '\$2'.\$3

#### System action

Abnormally terminates the program.

## Response

To allow the environment to create the factory object or object instance (\$1) of class (\$2), take the action described in "Virtual Memory Shortage" in the chapter "Executing Programs" in the "NetCOBOL User's Guide", or the following action, then re-execute the program. The error address is set in \$3.

- If environment variable @CBR\_InstanceBlock is set to USE (execution performance preferred), reduce the number of instances that can be stored (initial value or incremental value) for the class (\$2) defined in the class information file specified for @CBR\_ClassInfFile. Refer to "@CBR\_InstanceBlock Environment Variable" and "@CBR\_ClassInfFile Environment Variable" in Chapter 16 of the "NetCOBOL User's Guide".
- Specify UNUSE (memory preferred) for environment variable @CBR\_InstanceBlock. Refer to "Program Structures" in Chapter 15 of the "NetCOBOL User's Guide".

## JMP0102I-U

---

### CLASS '\$1' CANNOT BE USED.\$2.

#### System action

Abnormally terminates the program. The error address is set in \$2.

#### Response

Modify the program or execution environment so that the class used in class initialization can be used. Then re-execute the program.

Possible causes are as follows. Refer to "Notes" in Chapter 9 and "Program Structures" in Chapter 15 of the "NetCOBOL User's Guide".

- The class is implicitly deleted from the memory by the CANCEL statement or equivalent.
- Two or more executable files (including DLLs) containing the object file in the same class exist in the COBOL runtime.
- Different classes with the same class name exist in the COBOL run unit.

## JMP0103I-U

---

### CANNOT INVOKE METHOD 'CLASS=\$2' \$3.\$4

#### System action

Abnormally terminates the program.

#### Response

Eliminate the error cause according to the error code set in \$3 then re-execute the program. Also, make sure that the method entry information is specified correctly. The error address is set in \$4. See "[Appendix A System Error Codes](#)", and the on-line help of "Visual C++".

## JMP0104I-U

---

### EXCEPTION OCCURRED '\$1'.\$2

#### System action

Abnormally terminates the program.

#### Response

If \$1 is 'OBJECT', describe the USE statement that specifies the class name having the inheritance relationship with the exception object that has been generated. The error address is set in \$2.

## JMP0105I-U

---

### CANNOT LOAD CLASS '\$1'.CODE=\$2.\$3

#### System action

Abnormally terminates the program.

## Response

Eliminate the error cause according to the error code set in \$2 then re-execute the program. Also, make sure that the class entry information is specified correctly. The error address is set in \$3. See "[Appendix A System Error Codes](#)", and the on-line help of "Visual C++".

## JMP0106I-U

---

### EXCEPTION OBJECT USE PROCEDURE IS RECURSIVELY CALLED.

#### System action

Abnormally terminates the program.

#### Response

If the error handling procedure is re-executed due to occurrence of a new exception object in the exception object error handling procedure being executed, control must not reach the last statement in the preceding error handling procedure.

Do not allow the error handling procedure to be called recursively or use the EXIT PROGRAM statement, EXIT METHOD statement, or GO TO statement so that the last statement in the error handling procedure will not be reached.

## JMP0107I-U

---

### THE STOP RUN STATEMENT CANNOT BE EXECUTED DURING EXECUTION OF FINALIZE METHOD. \$1 . \$2

#### System action

Abnormally terminates the program.

#### Response

Change the STOP RUN statement written in the finalize method or the program invoked from the finalize method to the EXIT PROGRAM or EXIT METHOD statement, then rerun the program. \$2 indicates an error address.

## 3.3.3 JMP0200 - JMP0299

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0200	0201	0202	0204	0206	0207	0208	0209	0211	0212
0213	0221	0222	0223	0224	0225	0253	0254	0259	0260
0261	0262	0263							

## JMP0200I-E

---

### INSUFFICIENT DATA ACCEPTED FROM SYSIN.

#### System action

Continues processing if the remaining part of the input data area is blank.

#### Response

Prepare the number of data items that can be input by executing the ACCEPT FROM SYSIN statement.

Confirm that the ACCEPT statement is not executed a number of times equal to or greater than the number of data items.

## JMP0201A-I

---

### AWAITING A REPLY.

#### System action

After receiving response, continues processing.

## Explanation

The system asks the operator to input data by using the ACCEPT statement.

## Response

Input any necessary data.

### JMP0202A-I

---

'\$1'

## System action

After receiving response, continues processing.

## Explanation

The STOP literal statement is being executed.

## Response

Input any character. The literal specified in the STOP literal statement is written for \$1.

### JMP0204I-U

---

**STATEMENT SEQUENCE ERROR. STM=\$1. PGM=\$2. LINE=\$3. RPT=\$4.**

## System action

Abnormally terminates the program.

## Response

- [Win32] Correct the execution sequence of statements for the report or detail phrase indicated in the message, then re-execute. The type of statement (INITIATE, GENERATE, or TERMINATE) is written for \$1. The outermost program name is written for \$2. The statement number ((COPY qualification-value line-number. verb-sequence-number-in-a-line.) is written for \$3. The report name or data name (detail phrase name) is written for \$4.
- [Winx64] Correct the execution sequence of statements for the report or detail phrase indicated in the message, then re-execute. The type of statement (INITIATE, GENERATE, or TERMINATE) is written for \$1. The outermost program name is written for \$2. The statement number ((COPY qualification-value line-number) is written for \$3. The report name or data name (detail phrase name) is written for \$4.

### JMP0206I-W

---

**SCREEN ITEM SIZE IS LARGER THAN LOGICAL SCREEN.**

## System action

The screen item is displayed partially.

## Response

Specify a logical screen size large enough to display the entire item.

### JMP0207I-U

---

**LOGICAL SCREEN SIZE IS TOO LARGE.**

## System action

Abnormally terminates the program.

## Response

Specify the logical screen size so that (column count + 1) \* line count is equal to no more than 16,250, then re-execute.

## JMP0208I-E

---

### INVALID NUMERICAL VALUE ACCEPTED. \$1

#### System action

Writes zero to the receive data item, then continues processing. The error address is set in \$1.

#### Response

Specify a value for the numeric data item of the ACCEPT statement correctly, then re-execute.

## JMP0209I-U

---

### CANNOT ACCEPT/DISPLAY FROM SYSTEM CONSOLE. '\$1' \$2. \$3

#### System action

Abnormally terminates the program.

#### Response

An error was detected in the process to the system console (\$1). Remove the cause of the error by referring to the error code of the system set in \$2, and execute again. An error address is set in \$3. Refer to "[Appendix A System Error Codes](#)", and "Online help of Visual C++"

When \$2 is "6", the environment was not available when the application was started. Refer to "System Console Window" in Chapter 10 of the "NetCOBOL User's Guide".

## JMP0211I-U

---

### KEY DEFINITION FILE OPEN ERROR. FILE=\$1. \$2 \$3

#### System action

Abnormally terminates the program.

#### Response

Check the key definition file (\$1) specified by environment variable @CBR\_SCR\_KEYDEFFILE.

Eliminate the cause of the error according to the error code written for \$2, then rerun the program. The error address is set in '\$3'.

Refer to Visual C++ on-line help information.

## JMP0212I-W

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### KEY DESCRIPTION IS INVALID. '\$1' \$2

#### System action

Continues processing without setting the "KEY" in the key definition file.

#### Response

Please correct the key definition file referring to the character string set in \$1, and execute program again. Table below lists the contents of \$1. The error address is set in \$2.

Table 3.15 \$1 of JMP0212I-W

\$1	Description	Programmer Response
SECTION	The mistake is found in the description of the section name. It is judged that all keys are not specified in the key definition file.	Please confirm the section name [COBOL.KBD] of the key definition file.
KEY=key name	The mistake is found in the description of the key name. It is considered that the key set in \$1 is	Please confirm the description form of the key name in the key definition file and whether the value of the key is in the effective



\$1	Description	Programmer Response
	not specified in the key definition file.	range. Please confirm the content of the key definition. Refer to "Using Screens" in Chapter 8 of the "NetCOBOL User's Guide".

### JMP0213I-W

#### WRONG CHARACTER STRING SPECIFIED IN CONTROL CLAUSE. '\$1' \$2

##### System action

Ignores the character string specified in the CONTROL clause, and continues processing.

##### Response

The CONTROL clause contains a character string (\$1) that cannot be specified in it. Or, The specifiable character string (\$1) was specified in the CONTROL clause incorrectly. Specify a correct character string and rerun the program. Note that the error address is set in \$2.

### JMP0221I-U

#### ERROR OCCURRED IN '\$1' OF THE METHOD INVOCATION. '\$2' '\$3'

##### System action

Abnormally terminates the program.

##### Response

Eliminate the error cause according to the string set in \$2 then re-execute the program. Table below lists the text that can be set in \$2. The error address is set in \$3.

Table 3.16 \$2 of JMP0221I-U

\$2	Description	Programmer response
BIND	Binding the method failed.	Make modification so that the object identifier specified in the INVOKE statement invoking method (\$1) will be correct.
NULL	The method is invoked from the NULL object.	Set the object reference for the class that conforms to the class containing method (\$1) in the object reference data item specified in the INVOKE statement.

### JMP0222I-U

#### ERROR OCCURRED IN THE AS PHRASE. SPECIFICATION ON THE RIGHT SIDE OF THE AS PHRASE IS '\$1' \$2

##### System action

Abnormally terminates the program.

##### Response

Make sure that class name \$1 or interface name \$1 specified on the right side of object specifier AS, or selective specification of class name \$1 (FACTORY OF specification or ONLY specification), conforms to the object referenced by the object reference identifier specified by the AS specifier. The error address is set in \$2.

### JMP0223I-U

#### CONFORMANCE ERROR OCCURRED IN THE SETTING OF THE SENDING OBJECT REFERENCE DATA ITEM TO THE RECEIVING OBJECT REFERENCE DATA ITEM. \$1

##### System action

Abnormally terminates the program.

## Response

Make modification so that the object reference specified for the return item in the header of the procedure division at the sender conforms to the object reference specified for the return item at the receiver. The error address is set in \$1.

### JMP0224I-U

---

#### ERROR OCCURRED IN A PROPERTY METHOD INVOCATION. '\$1' 'NULL' \$2

##### System action

Abnormally terminates the program.

##### Response

Make the object reference specified for the object property conform to the class or interface containing the property name (\$1). The error address is set in \$2.

### JMP0225I-U

---

#### CANNOT INVOKE METHOD '\$1' WITH THE ANY LENGTH CLAUSE SPECIFICATION. '\$2' '\$3' \$4

##### System action

Abnormally terminates the program.

##### Response

Remove the cause of the error by referring to the string set to \$3, and execute again. The table below shows the string set to \$3.

Table 3.17 \$3 of JMP0225I-U

\$3	Description	Programmer Response
PARM=n	There is an error in the parameter. The called method (\$1) has an ANY LENGTH clause and the data item which is not allowed to be specified as a data item of an ANY LENGTH clause is specified to method which calls (\$4). "n" indicates the position of the parameter which has an error.	Correct the program so that the method (\$1) is called by the correct parameter.
VL	The method invoking statement specifying the ANY LENGTH clause is compiled by a compiler with a version and level not supporting it.	Re-compile the caller method (\$4) with COBOL V40L20 or later, when USING is set in \$2. Re-compile the caller method (\$4) with COBOL V50L10 or later when RETURNING is set in \$2.

### JMP0253I-U

---

#### INVALID JOBDATE FORMAT.

##### System action

Abnormally terminates the program.

##### Response

Check that the date specified in the environment variable @CBR\_JOBDATE is specified in the correct format.

### JMP0254I-E/U

---

#### ERROR IN COLLABORATION WITH GENERALIZED LOG. '\$1' '\$2' '\$3'

##### System action

Abnormally terminates the program. When closing the general-purpose log fails, an E level message is displayed and processing continues.

## Response

Remove errors in character strings \$1,\$2, and \$3 and execute again.

Table 3.18 \$2 of JMP0254I-E/U

\$2	Description	Programmer Response
LOAD-FAIL	Loading library failed for the general-purpose log feature.	Refer to the \$3 character string and confirm that the Interstage Business Application Server is installed correctly.
ENOMEM	Insufficient memory.	Check the capacity of the system free memory.
FUNCTION	An error occurred in the function of the general-purpose log link feature.	Function names are displayed in \$1 and error codes are displayed in \$3. See the Interstage Business Application Server manual.
NOT-SYMBOL	The required function is not found in the general-purpose log link feature.	If the same types of errors occur when the program is rerun, there may be a system failure. Open a support incident to obtain assistance from a supplier.
INTERNAL-ERROR	An internal error was detected.	If the same types of errors occur when the program is rerun, there may be a system failure. Open a support incident to obtain assistance from a supplier.

## JMP0259I-W/U

### DISPLAY OUTPUT FOR EVENTLOG CANNOT BE WRITTEN TO COMPUTER '\$1'. '\$2' \$3

#### System action

If the severity code is W, the system outputs the event log to the user's computer and continues the process. If the severity code is U, the system abnormally terminates the program.

#### Response

The computer name specified for event log output is in \$1. The string specified for DISPLAY statement is in \$2 and the error address is in \$3.

Verify whether the computer name specified for the following environment variables is correct.

Destination	Environment Information
COBSOLE	@CBR_DISPLAY_CONSOLE_OUTPUT
SYSOUT or not specified	@CBR_DISPLAY_SYSOUT_OUTPUT
SYSERR	@CBR_DISPLAY_SYSERR_OUTPUT

- Verify that the computer name designation is correct.
- Verify that the specified computer is active.
- [Win32] Verify that the OS used by the specified computer is Windows(32). The event log can be output only to an OS that has the event log output function.
- [Winx64] Verify that the OS used by the specified computer is Windows(x64). The event log can be output only to an OS that has the event log output function.

## JMP0260I-U

### TRANSCRIPTION OF \$2th DATA FAILED. STATEMENT='\$1' '\$3' \$4

#### System action

Abnormally terminates the program.

## Response

The character string of either STRING or UNSTRING is in \$1. The error number is in \$2 and the error address is in \$4. Correct the character string in \$3 and execute again.

Table 3.19 \$3 of JMP0260I-U

\$3	Description	Programmer Response
CONVERT ERROR=0XXXXX	When the STRING or UNSTRING statement was executed, an error was detected when changing matched type codes on the receiving side.	Refer to the system error codes.(*1)
NOT NUMERIC ITEM	Non-transferable data (non-numeric characters and invalid signs) to number items were detected during an UNSTRING execution.	Check the data item type on the receiving and sending sides.

\*1 : For details, refer to "[Appendix A System Error Codes](#)".



## Example

When transferring a receiving side item, the "Extension number" failed following execution of the UNSTRING statement. Number 5 is in the message.

```
[Statement]
UNSTRING employee-data INTO employee BY CSV-FORMAT
[Data Definition]
77 employee-data PIC X(35)
      VALUE "8701,TARO FUJITSU,38,SalesDepartment,7551-4535".
01 employee.
  02 Employee-Number PIC 9(6).
  02 Name PIC X(15).
  02 Age PIC 9(2).
  02 Department PIC X(20).
  02 Extension number PIC 9(9). *> To be written "7551-4535", a message is displayed.
```

## JMP0261I-U

### INITIAL VALUE OF 'POINTER' PHRASE IS INVALID. STATEMENT='\$1' \$2

#### System action

Abnormally terminates the program.

#### Response

The character string of either STRING or UNSTRING is in \$1. Correct the POINTER initial values and execute again. The error address is in \$2.

## JMP0262I-W

### SOME CHARACTERS HAVE BEEN LEFT IN SENDING ITEM. STATEMENT= '\$1' \$2

#### System action

The \$1 statement execution is exited, and program processing continues.

#### Response

The character string of either STRING or UNSTRING is in \$1. The error address is in \$2. Correct the error in \$1 as indicated below and execute again.

- STRING Statement

Moving to the low order end in the receiving side item has been completed, but there are still characters in the sending side item. Resize the receiving side data items so that all sending side items can be moved.

- UNSTRING Statement

There is some split data that cannot be moved from the sending side item. Increase the data item numbers on the receiving side so that all of the split data can be stored.

Use @CBR\_CSV\_OVERFLOW\_MESSAGE to suppress the display of this message without modifying the program.

Refer to "@CBR\_CSV\_OVERFLOW\_MESSAGE" in Chapter 5 of the "NetCOBOL User's Guide".

## JMP0263I-W

---

### TRUNCATION OF \$1th DATA OCCURRED. STATEMENT='UNSTRING' \$2

#### System action

The data following the moving rule is truncated, and the UNSTRING statement processing continues.

#### Response

Error numbers are in \$1. The error address is in \$2. Character strings split by the UNSTRING statement are larger than the receiving side item, so the data was truncated. Resize the receiving side item that was truncated, and execute again.

Use environment @CBR\_CSV\_OVERFLOW\_MESSAGE to suppress the display of this message without modifying the program.

Refer to "@CBR\_CSV\_OVERFLOW\_MESSAGE" in Chapter 5 of the "NetCOBOL User's Guide".



#### Example

When transferring a receiving side item, "Department" failed following execution of the UNSTRING statement. Number "4" is in the message.

```
[Statement]
UNSTRING employee data INFO employee BY CSV-FORMAT
[Data Definition]
77 employee-data PIC X(35) VALUE "8701,TARO FUJITSU,38,SalesDepartment,7551-4535".
01 employee.
   02 Employee-Number PIC 9(6).
   02 Name PIC X(15).
   02 Age PIC 9(2).
   02 Department PIC X(10). *> To be written "SalesDepartment",
   02 Extension number PIC X(10). *> a message is displayed.
```

## 3.3.4 JMP0300 - JMP0399

0301	0302	0310	0311	0313	0320	0321	0322	0323	0324
0325	0326	0327	0328	0330	0331	0340	0350	0360	0362
0363	0364	0365	0370	0371	0372	0373	0374	0375	0376
0392									

## JMP0301I-E

---

### '\$1' (\$2) OPENED BY '\$3' IS NOT CLOSED. \$3

#### System action

Terminates the program without performing close processing for the file.

## Response

Correct the program (\$3) so that the CLOSE statement is executed for the file (\$1) before termination of the program (\$3). The open mode of the file (\$1) is written for \$2. The error address is set in \$4.

### JMP0302I-U

#### CLOSE ERROR DURING PROGRAM TERMINATION. PGM=\$1. FILE=\$2.

##### System action

Abnormally terminates the program.

##### Response

Check and eliminate the cause of the error. If another message is written, refer to it to determine the cause. The program name is written for \$1. The access name or file name is written for \$2.

### JMP0310I-I/U

#### \$1 ERROR. FILE=\$2. '\$3'. \$4

##### System action

Continues program processing if the severity code is I; aborts the program if the severity code is U. The severity code is determined as follows:

- I : The FILE STATUS clause is specified for file definition.
- U : The FILE STATUS clause and error procedures are not specified.

##### Response

Eliminate the cause of the error according to the character string output in \$3, then re-execute. OPEN or CLOSE is output in \$1. The access name or file name is output in \$2. Meanings of the strings output in \$3 and actions to be taken are shown in tables below. The error address is output in \$4.

Table 3.20 \$3 of JMP0310I-I/U (1)

\$3	Description	Programmer Response
ACC-METHOD or ACC-METHOD (98XX)	The specified file access method is invalid. (*1)	Specify the file access method correctly.
BLKED-FILE	The file cannot be used because of a CLOSE statement error.	Check and eliminate the cause of the CLOSE statement error.
CNVER = xxxx	Character code conversion failed. xxxx: Hexadecimal notation	Check for and eliminate the cause of the error according to the system error code. If the error code is 0xFFFFFFFF, it indicates the location where non-shift-JIS characters were used while they were not allowed. Correct the program.
CRT-WINDOW	Creating a window failed.	The cause may be a shortage of virtual memory. Examine the cause and take measures. (*5)
ERFLD=xxxx	An error occurred while accessing the input-output file.  Error code from the system xxxx: Expressed in hexadecimal	The value set in \$3 is the error code of the input-output file. Check for and eliminate the cause of the error according to the system error code or the manuals of the file system. (*2)
ERRCD=xxxx	A presentation file access error occurred.	Check for and eliminate the cause of the error according to the manuals of the connected products. (*3)

\$3	Description	Programmer Response
EXCL-ERROR	An exclusive error occurred.	Re-execute. If the exclusive error occurs repeatedly, confirm that the error does not affect operation.
EXFH-INF	Opening the External file handler information file failed, or contents of the External file handler information file are invalid.	Check the path name or contents of the External file handler information file.
FCB	The FCB control statement is invalid	Check the FCB control statement.
FILE-LOCK	The file is exclusively used by another user, or the file cannot be used exclusively because it is being used by another user.	Re-execute. If the exclusive error occurs repeatedly, confirm that the error does not affect operation.
FONT -TABLE	The font table name specification is invalid.	Specify the correct font table name.
FTNCD=xxxx	Error code from the system xxxx: Expressed in hexadecimal	Check for and eliminate the cause of the error according to the system error code. (*2)
LOAD	The subprogram could not be loaded.	Check the program runtime environment.
LOAD=xxxxxx	Loading another product failed. xxxxxx: hexadecimal	Remove the cause of the error by referring to the set error code. (*6)
LOAD=xxxxxx type (module name)	Loading failed. xxxxxx: hexadecimal  One of the following BTRV/RDM/ EXFH/PIPE is set in the type. A called DLL name is set in the module name.	Reefer to the set error code. (*6)
LOAD-EXFH	Start environment of the External file handler failed.	Possible causes are as follows. Eliminate the cause of error and then rerun the program.  - The environment variable @CBR_EXTFH_API is not specified.  - DLL of External file handler specified for environment variable @CBR_EXFH_LOAD is not found, or is damaged.  - If the environment variable @CBR_EXFH_LOAD is not specified, the DLL is obtained by adding "dll" to an entry-name specified in @CBR_EXFH_API that is not found or is damaged.
LOCK-FULL	Many application requested a file to be opened. As a result, the lock table became insufficient.	Re-execute. If the error occurs repeatedly, confirm that the error does not affect operation. (*9)
NON-FILE	The file did not exist when the OPEN statement without OUTPUT specified was executed.	Before executing the program, create the file.
NON-REEL	The CLOSE statement with REEL or UNIT specified was executed.	Correct the program.
NOT-UNIQUE	Allocated file has a duplicate key.	Make the keys duplicate in the program specification.
OPEN-MODE	The specified file open mode is invalid.	Specify the correct open mode, then open the file.
PAPERSIZE	The paper size specified for the print information file is invalid.	Specify the correct paper size for the print information file.

\$3	Description	Programmer Response
PRTFORM	The print format specified for the print information file is invalid.	Specify the correct print format for the print information file.
READ-ONLY	A read-only file is used, or the specified file name is invalid.	Either change the access permission to allow writing to the file or specify the correct file
REC-MODE	The specified record format is invalid.	Specify the correct record format.
SESS-END	The OPEN statement was executed after session has ended or been interrupted.	Correct this so that the OPEN statement is not executed before the session has started.
RMERR=xxxx	Error code from the runtime system xxxx: Expressed in hexadecimal	A system error probably occurred. Please open a support incident to obtain assistance from a supplier. (*4)
THREAD=xxxxxx	Thread synchronization failed. XXXXXX: Hexadecimal notation	Remove the cause of error while referring to the indicated error code. (*6)
TIMEOUT	The OPEN statement was executed after the timeout.	Correct this so that the OPEN statement is not executed after the timeout.
UNSUPPORT	The file does not support the specified function.	Check the file attribute, or confirm that there is no physical error. (*7)  The multithread function is not supported in the access product, even though the program was executed in multithread mode.  A product that does not support Unicode was invoked while a program with compiler option RCS (UTF16) specified was operating. Verify that each product supports the Unicode.  Check the specified file of the file system function range. (*8)
WIN-CLASS	Registering the window class failed.	There may be a shortage of virtual memory. (*5)

\*1 : The following errors in the file accessing method may have occurred.

- Tried to access files of a different configuration.
- Tried to access index files that need to be restored.
- The file format does not match the program code-type (ACP, UTF-16, UTF-32, UTF-8) or definitions within the program.

\*2 :

- If a message is generated showing error information ERFLD=101 when a print file (without the FORMAT clause specified) is executed, ensure the following:
    - Only the required number of printer drivers are installed.
    - The FCB control statement is less than 2,048 bytes.
    - All the specified forms overlay patterns are correct.
    - All the registered forms overlay pattern names are correct.
    - The spool area is large enough.
    - Confirm the disk capacity of the environment variable (TMP.) folder.
    - Stop all other applications that are executing at the same time.
    - Confirm the size of real storage and increase it if necessary.
    - Confirm the size of virtual storage and increase it if necessary.
- If no problems are found in the above checks, a system error probably occurred.



Collect the error information, then Contact Fujitsu Software Support.

- For Btrieve file error codes, refer to the Btrieve file manual ("BTRIEVE Programmer's Manual" published by Btrieve Technologies, Inc.) or Actian PSQL manual if it is available. If you need it, please contact the systems engineer.
- See "[Appendix A System Error Codes](#)" for details on character strings indicating errors in the file message text other than that above.

\*3 : If ERRCD=90xx is output while FORMRTS is used, refer to the FORMRTS online manual for xx.

\*4 : When RMERR=177F (98xx) is output, the file cannot be used normally. For indexed files, use the file utility or indexed file recovery function to restore the file.

\*5 : See "[D.1 Virtual Memory Shortages](#)".

\*6 : See "[Appendix A System Error Codes](#)" and online help of Visual C++(R) for details.

\*7 : When a line sequential file, record sequential file, relative file, and/or index file is used, some media such as communication ports (COMn: ) not supported by COBOL may be specified as the location to which the file is allocated.

When a print file is used, it may be handled as a record sequential file because it is not included in the print file organization. In such a case, this error occurs because a local printer port (LPTn: ) or communication port (COMn: ) is to be specified for the record sequential file.

For details about the media which can be used for COBOL, refer to "File Organization Types and Characteristics" in Chapter 6 of the "NetCOBOL User's Guide". For the condition that handles the above files as print files, refer to "How to Determine Print File / Presentation File" in Chapter 7 of the "NetCOBOL User's Guide".

\*8 : When operating in multithread mode or in Unicode, check the following:

- Multithreading - Check that all invoked products support multithreading and are compatible.
- Unicode - Check that all invoked products support Unicode and are compatible.

\*9 :The maximum number of OPEN requests that can be accepted concurrently for the same file is 1024.

If the character string described in Table F.13 is displayed, check the following:

- Whether the defined contents of the program, a file, or a record are consistent with the attribute of the file actually processed.
- Whether this product was used to create the file that is actually processed.
- Whether the specified file system type is correct.

If the file that is used was created with a product other than this product (OSIV COBOL85 or another programming language) or belongs to a different file system, the following errors may occur:

Table 3.21 \$3 of JMP0310I-I/U (2)

\$3	Description	Check Item in Program
INV-BLKSZ	The block length is invalid.	Length specified in the BLOCK CONTAINS clause
INV-CODEST	The code set is invalid.	Character code specified in the CODE SET clause
INV-COLSEQ	The collating sequence is invalid.	Alphabet name specified in the PROGRAM COLLATING SEQUENCE clause
INV-DELMTR	The record delimiter is invalid.	Data specified in the ORGANIZATION, and RECORD clauses (*1)
INV-KEYDUP	Determination of whether to specify a key in duplicate (DUPLICATES) is incorrect.	Presence or absence of specification of the RECORD KEY, ALTERNATE RECORD KEY, and DUPLICATES clauses
INV-KEYLEN	The key length of the allocated file conflicts with the definition in the program.	Data name length specified in the RECORD KEY and ALTERNATE RECORD KEY clauses (*2)
INV-KEYSTR	The key structure is invalid.	Data name length and data name count specified in the RECORD KEY and ALTERNATE RECORD KEY clauses, or the relative position in the record of the data name specified in the clauses.

\$3	Description	Check Item in Program
INV-LRECL	The record length of the allocated file conflicts with the definition in the program.	Data specified in the ORGANIZATION clause. Record length specified in the RECORD CONTAINS clause.
INV-RKP	The relative key position of the assigned file conflicts with the definition in the program.	Relative position in the record of the data name specified in the RECORD KEY and ALTERNATE RECORD KEY clauses
INV-KEYRCS	The key code system of the allocated file conflicts with the operating code system in the program.	Data specified in the compiler option RCS
KEY-ATTR	The key attribute of the allocated file conflicts with the definition in the program.	Data name attribute specified in the RECORD KEY and ALTERNATE RECORD KEY clauses
NON-ESDS	A sequential file was not allocated when specified.	Data specified in the ORGANIZATION clause
NON-KSDS	An indexed file was not allocated when specified.	
NON-RRDS	A relative file was not allocated when specified.	
NON-TEXT	A text file was not allocated as a print file.	

\*1 : Check the program definition to verify that the file organization and the record format (fixed or variable record length) are consistent with the processed file.

\*2 : When two or more data items are specified for the RECORD KEY clause and the ALTERNATE RECORD KEY clause, the length of all data items should correspond to the length of each key of the allocated file.

## JMP0311I-I/U

### MISSING ALLOCATION. FILE=\$1. ' \$2' \$3

#### System action

Continues program processing if the severity code is I; aborts the program if the severity code is U. The severity code is determined as follows:

- I : The FILE STATUS clause is specified for file definition.
- U : The FILE STATUS clause and error procedures are not specified.

#### Response

Allocate the file (\$1) if necessary, or specify the file correctly, then re-execute. See the table below for more information regarding the character string in \$2. The error address is in \$3.

Table 3.22 \$2 of JMP0311I-I/U

\$2	Description	Programmer Response
NOT ASSIGNED	The environment variable is not specified for an access name, and a file name is blank.	Specify the file name of the environment variable or data name specification.
INVALID ASSIGN	An analysis error occurred in the specified character strings following the file name.	Check whether an effective character string is specified for a file function. (*1)  Check whether the combination of specified function and file organization is correct. (*2)
INVALID PATH-NAME	There is an error in the path name of the file contains or the method of specification.	Check whether the path name of the file is correctly specified.

\$2	Description	Programmer Response
		Check whether the method of specification is correctly specified. (*3)

\*1 : Refer to "Caution" in Chapter 6 of the "NetCOBOL User's Guide".

\*2 : Refer to "File Processing" and "How to Use Other File Systems" in Chapter 6 of the "NetCOBOL User's Guide".

\*3 : This error condition may be encountered when a mistake is found in the specification method for a print file without FORMAT clause. Specify correctly the printer and the parameter used referring to "File identifier(Specify the printer information file and various parameters used for the program)" in Chapter 5 of the "NetCOBOL User's Guide".

## JMP0313I-I/U

### INSUFFICIENT STORAGE AVAILABLE. STM=\$1. FILE=\$2. \$3

#### System action

Discontinues error file processing, then continues program processing if the severity code is I; aborts the program if the severity code is U. The severity code is determined as follows:

- I : The FILE STATUS clause is specified for file definition.
- U : The FILE STATUS clause and error procedures are not specified.

#### Response

For the cause and action to be taken, see "D.1 Virtual Memory Shortages". After the action is taken, re-execute the program.

The COBOL statement (OPEN, CLOSE, START, READ, WRITE, REWRITE, or DELETE) that caused the virtual storage to become insufficient is written for \$1. The file name or access name of the processed file is written for \$2. The error address is written for \$3.

## JMP0320I-I/U

### INPUT/OUTPUT ERROR. STM=\$1. FILE=\$2. '\$3'. \$4

#### System action

Discontinues error file processing, then continues program processing if the severity code is I; aborts the program if the severity code is U. The severity code is determined as follows:

- I : The FILE STATUS clause is specified for file definition.
- U : The FILE STATUS clause and error procedures are not specified.

#### Response

Eliminate the cause of the error according to the character string output for \$3. The COBOL statement (START, READ, WRITE, REWRITE, or DELETE) that caused the input-output error is output in \$1. The file name or access name of the processed file is output in \$2. Table below shows the meanings of strings to be output in \$3 and the actions to be taken. The error address is output in \$4.

Table 3.23 \$3 of JMP0320I-I/U

\$3	Description	Programmer Response
[Win32] ACC-XAP	An error occurred while accessing the digital form application framework.	Refer to the description in the XML Option Guide and fix the cause of the error.
ALTD-LEN	The record length specified in the REWRITE statement is different from the length of an existing record.	Do not change the length of an existing record when updating the record.
BLKED-FILE	The file cannot be used because of a CLOSE statement error.	If message JMP0310I-I is displayed before JMP0320I-I, eliminate the cause of the error according to message JMP0310I-I.

CNVER = xxxx	Character code conversion failed. xxxx: Hexadecimal notation	Check for and eliminate the cause of the error according to the system error code. Error code 0xFFFFFFFF indicates the location where non-ACP characters were used where they were not allowed.
ERRCD=xxxx	A presentation file access error occurred.	Check for and eliminate the cause of the error according to the manuals of the linked products. (*1)
EXCEED-LEN	The length of the record to be written exceeds the maximum record length specified in the program.	Set the record length to within the specified maximum record length.
EXCL-ERROR	An exclusive error occurred.	Re-execute. If the exclusive error occurs repeatedly, confirm that the error does not affect operation.
FCB	The FCB contents are invalid.	Check the FCB contents.
FDBK=xxxx	An error occurred while accessing the input-output file. xxxx: Expressed in hexadecimal	The value set in \$3 is the error code of the input-output file. Check for and eliminate the cause of the error according to the system error code or the manuals of the file system. (*2)
FONT	A font that did not exist in the system was specified for output. Or, the specified font table could not be opened.	Check the specified font name, and install necessary fonts in the system. Or, check if the correct font table name has been specified.
FOVL	The specified folder containing the forms overlay definition is invalid, or the forms overlay definition is invalid.	Check the initial file to determine if the folder containing the correct forms overlay definition is specified.
FTNCD=xxxx	Error code from the system xxxx: Expressed in hexadecimal	Check for and eliminate the cause of the error according to the system error code. (*2)
INV-CHAR	A line sequential file record or print file record contains an invalid character.	Check the data contents.
INV-LEN	The record length specified in the WRITE or REWRITE statement is invalid.	Specify the correct length of the record to be written.
KEY-CHANGE	The key value at request for updating the record was different from the key value at reading of the record.	Correct the program so that the key value is not changed at updating of the record.
LOAD	The subprogram could not be loaded.	Check the program runtime environment.
NO-TRANS	Some characters cannot be converted into a code set.	Check the data contents.
OVER-RECLN	The length of the print data area that was to be output from the line record exceeded the maximum length.	Correct the length of the print data area so that it is within the determined maximum length (*5).
	The length of the record that was input exceeds the maximum record length determined by the program.	Correct the program so that the length of the record to be input is within the determined maximum length.
PHYSIC-ERR	A physical error occurred.	Check the file contents (physical structure).
READ-ONLY	A read-only file is used.	Change the access permission to allow writing to the file.
REC-LOCK	The record is exclusively used by another user, or the record cannot be used exclusively because it is being used by another user.	Re-execute. If the exclusive error occurs repeatedly, confirm that the error does not affect operation.

R.KEY-ERR	The relative key contents conflict with the definition specified in the PICTURE clause during random or dynamic access.	Specify a data item size in the PICTURE clause large enough to store the maximum value of the relative key.
	The relative key item value is 0.	Specify a non-zero value for the relative key item.
RMERR=xxxx	Error code from the runtime system xxxx: Expressed in hexadecimal	A system error probably occurred. Collect the error information, then Contact Fujitsu Software Support. (*3)
RRN>R.KEY	When the READ or WRITE statement is executed for sequential processing, the relative record number exceeds the maximum value of the relative key item.	Specify a size of the relative key item large enough to store the maximum relative record number of the file
SESS-END	The READ statement was executed after session has ended or been interrupted.	Correct this so that the READ statement is not executed before the session has started.
THREAD=xxxxx x	Thread synchronization failed. XXXXXX: Hexadecimal notation	Remove the cause of error while referring to the indicated error code. (*4)
TIMEOUT	The READ or WRITE statement was executed after the timeout.	Correct this so that the READ or WRITE statement is not executed after the timeout.
UNSUPPORT	When using the External File Handler is to be used, a START statement with the FIRST phrase specified for indexed file cannot be executed.	<ul style="list-style-type: none"> <li>- If high speed file processing was used and the REWRITE statement was executed, disable the high speed file processing or modify the program so as not to use the REWRITE statement.</li> <li>- If an External File Handler was used, and the START statement with the FIRST phrase specified was executed for an index file, remove the START statement with the FIRST phrase from the program.</li> </ul>

\*1 : If ERRCD=90xx is output while FORMRTS is used, refer to the FORMRTS online manual for xx.

\*2 :

- If a message is output showing error information FDBK=101 when a print file (without the FORMAT clause specified) is executed, ensure the following:
  - Only the required number of printer drivers are installed.
  - The FCB control statement is less than 2,048 bytes.
  - All the specified forms overlay patterns are correct.
  - The spool area is large enough. Check the disk space for the following folder:
    - Window install folder\System32\Spool\Printers
  - Stop all other applications that are executing at the same time.
  - Confirm the size of real storage and increase it if necessary.
  - Confirm the size of virtual storage and increase it if necessary.
  - All the registered forms overlay pattern names are correct.

If no problems are found in the above checks, a system error probably occurred.

Collect the error information, then contact Fujitsu Software Support.

- For details on error codes to the Btrieve file, refer to the Btrieve file manual or Actian PSQL manual if it is available. If you need it, please contact the systems engineer.
- For details on error codes for PowerRDBconnector, refer to the "PowerRDBconnector Handbook".

- See "[Appendix A System Error Codes](#)" for details on character strings indicating errors in the file message text other than the above.

\*3 If RMERR=177F (98xx) is output, the file cannot be used normally. For the indexed file, use the file utility or indexed file recovery function to restore the file.

\*4 Refer to "[Appendix A System Error Codes](#)" and online help of Visual C++ for details.

\*5 The length of the record that can be written from the line record (though it is just a guideline) can be obtained with the following formula:

`32 Kbytes > Output record length + 2 + 100 * Number of basic items`

## JMP0321I-U

---

### AT END CONDITION. STM=READ. FILE=\$1. \$2

#### System action

Abnormally terminates the program.

#### Explanation

The file name or access name of the file with which a file end condition was produced is written for \$1. The error address is written for \$2.

#### Response

Specify AT END phrase in the READ statement to perform file end processing.

Check whether the number of input data items is correct.

## JMP0322I-U

---

### KEY SEQUENCE ERROR. STM=\$1. FILE=\$2. \$3

#### System action

Abnormally terminates the program.

#### Explanation

The file name or access name of the file with which an invalid key condition was produced is written for \$2. The error address is written for \$3.

#### Response

If \$1 is the WRITE statement, correct the program so that the key values are written in ascending order.

If \$1 is the REWRITE or DELETE statement, correct the program so that the key value of the record read by the previous READ statement is not changed.

## JMP0323I-U

---

### DUPLICATE KEY ERROR. STM=\$1. FILE=\$2. \$3

#### System action

Abnormally terminates the program.

#### Explanation

The error COBOL statement (WRITE, REWRITE or CLOSE) is written for \$1. The file name or access name of the error file is written for \$2. The error address is written for \$3.

#### Response

Correct the program so that a key is not duplicated.

## JMP0324I-U

---

### RECORD NOT FOUND. STM=\$1. FILE=\$2. \$3

#### System action

Abnormally terminates the program.

#### Explanation

The error COBOL statement (READ, REWRITE, START, or DELETE) is written for \$1. The file name or access name of the error file is written for \$2. The error address is written for \$3.

#### Response

Correct the program so that attempts to access a non-existent record are inhibited.

Correct the program by using the FILE STATUS or INVALID KEY clause so that the program checks an attempt to access a non-existent record.

## JMP0325I-I/U

---

### BOUNDARY VIOLATION ERROR. STM=\$1. FILE=\$2. \$3

#### System action

Continues program processing if the severity code is I; aborts the program if the severity code is U. The severity code is determined as follows:

- I : The FILE STATUS clause is specified for file definition.
- U : The FILE STATUS clause and error procedures are not specified.

#### Explanation

The error COBOL statement (WRITE, REWRITE, READ, START, or CLOSE) is written for \$1. The file name or access name of the error file is written for \$2. The error address is written for \$3.

#### Response

Disk space is insufficient, or maximum size of the file is exceeded. When disk space is insufficient, increase the size of disk space, then re-execute. When the maximum size of the file is exceeded, divide the file into multiple parts.

Refer to "How to Use Other File Systems" in Chapter 6 of the "NetCOBOL User's Guide".

## JMP0326I-U

---

### NO-SPACE CONDITION. STM=\$1. FILE=\$2. \$3

#### System action

Abnormally terminates the program.

#### Explanation

The error COBOL statement (WRITE, REWRITE, READ, START, or CLOSE) is written for \$1. The file name or access name of the error file is written for \$2. The error address is written for \$3.

#### Response

Increase the size of the file space or disk space, then re-execute.

## JMP0327I-U

---

### INVALID KEY CONDITION. STM=\$1. FILE=\$2. '\$3'. \$4

#### System action

Abnormally terminates the program.

## Explanation

The error COBOL statement (WRITE) is written for \$1. The file name or access name of the error file is written for \$2. The error address is written for \$4.

## Response

If \$3 is RRN>R.KEY, correct the program so that the relative record number does not exceed the maximum value permitted for the relative key item when records are written in sequential processing. Alternatively, correct the program by using the INVALID KEY clause so that processing for an invalid key condition is performed.

## JMP0328I-I/U

---

### DEPENDING ON OBJECT VALUE IS OUT OF RANGE. STM=WRITE. FILE=\$1. \$2

#### System action

Continues program processing if the severity code is I; aborts the program if the severity code is U. The severity code is determined by:

- I : The FILE STATUS clause is specified for file definition.
- U : The FILE STATUS clause and error procedures are not specified.

#### Explanation

The file name or access name of the error file is written for \$1. The error address is written for \$2.

#### Response

Correct the program so that the DEPENDING ON value is defined in the specified range.

## JMP0330I-I/U

---

### STATEMENT SEQUENCE ERROR. STM=\$1. FILE=\$2. '\$3'. \$4

#### System action

Continues program processing if the severity code is I; aborts the program if the severity code is U. The severity code is determined by:

- I : The FILE STATUS clause is specified for file definition.
- U : The FILE STATUS clause and error procedures are not specified.

#### Explanation

The COBOL statement (OPEN, CLOSE, READ, WRITE, REWRITE, START, or DELETE) with which an input-output error occurred is output in \$1. The file name or access name of the processed file is output in \$2. The character strings output for \$3 are listed in Table below. The error address is output in \$4.

#### Response

Eliminate the cause of the error according to the character string output in \$3, then re-execute.

Table 3.24 \$3 of JMP0330I-I/U

\$3	Description
AT-END	After a file at end condition was produced, the READ statement was re-executed.
DUPL-OPEN	The OPEN statement was executed for an open file.
LOCKED	After the CLOSE statement with LOCK phrase specified was executed an attempt was made to open the file.
NO-READ	The previous statement is not a successful READ statement.
NOSPACE	After a no-space condition was produced, the WRITE statement was re-executed.



\$3	Description
NOT-OPENED	An input-output statement was executed for a closed file.
OPEN-MODE	The OPEN mode is invalid or the combination of the OPEN mode and the input-output statement is invalid.
POS-ERROR	The file position indicator is undefined.

## JMP0331I-U

### THREAD SYNCHRONIZATION FAILED. FILE='\$1' FILE. '\$2'. \$3

#### System action

Abnormally terminates the program.

#### Response

Remove the cause of error while referring to the character string indicated in \$2, then rerun the program. Table below provides explanations and responses of the character string indicated in \$2. \$3 indicates an error address.

Table 3.25 \$2 of JMP0331I-U

\$2	Description	Programmer Response
ABANDONED	The program in a thread terminated abnormally, and so lock ownership could not be released normally.	If a thread terminates abnormally immediately before this error, determine the cause and respond accordingly.
CODE = 0XXXXX	A system error code is indicated.	Determine the cause while referring to the explanation on the system error code, then respond accordingly.

## JMP0340I-U

### CONTROL RECORD FORMAT ERROR. STM=WRITE. FILE=\$1. '\$2'. \$3

#### System action

Abnormally terminates the program.

#### Explanation

The file name or access name of the processed file is output in \$1. Table below lists the strings that can be written to \$2 along with the control record contents. The error address is output in \$3. When a blank is not set in RSV(system usage) region, this error message might be output. Confirm that a blank is set in the RSV region.

#### Response

Eliminate the cause of the error according to the character string written for \$2, then re-execute.

Table 3.26 \$2 of JMP0340I-U

\$2	Field Contents
BIND	Binding direction
CMOD	Copy modification module name
DOC-INFO	Document name identification information
C-NO	Number of copies
FCB	FCB name
FID	Format definition deck name
FORM	Forms code

\$2	Field Contents
FOVL	Forms overlay module name
F-NO	Number of forms overlay fields
HOP	Hopper
ID	Control record ID
LEN	Control record length
LOAD	Dynamic loading
MODE	Control mode
OFST	Print origin position
OSTK	Offset stack
PFRM	Printing format
POST	Printing surface positioning
PRTA	Unprintable area
RSV	Reserved area (not blank)
R-NO	Forms overlay printing count
SIDE	Printing surface specification
SIZE	Forms size
STK	Stacker
S-NO	Copy correction start number
T-NO	Number of character array table for copy correction
WDTH	Binding width
XTB	Name of character array table for copy correction

### JMP0350I-U

---

#### USE PROCEDURE IS RECURSIVELY CALLED.

##### System action

Abnormally terminates the program.

##### Response

If execution of an input-output statement during an error procedure causes re-execution of the error procedure, do not let control reach the last statement of the first-executed error procedure.

### JMP0360I-U

---

#### PS FILE ACCESS ERROR. CODE=\$1.

##### System action

Abnormally terminates the program.

##### Explanation

The internal code indicating detailed error information is written for \$1.

##### Response

Check the contents of the destination specified in the SYMBOLIC DESTINATION clause. If the contents are correct, a system error probably occurred. Collect the error information, then Contact Fujitsu Software Support.

## **JMP0362I-U**

---

**ORDER CREATE PROCESS ERROR. STM='\$1'. FILE='\$2'. CODE=\$3. \$4**

### System action

Abnormally terminates the program.

### Response

Check the error code set in \$3 and eliminate the cause of the error. Then, rerun the program. Note that the COBOL statement (either of OPEN, CLOSE, or WRITE) with the error is set in \$1, while the file name or access name for file processing is set in \$2. The error address is set in \$4.

## **JMP0363I-U**

---

**SYMBOLIC DESTINATION ERROR. FILE=\$1.**

### System action

Abnormally terminates the program.

### Explanation

The file name or access name is written for \$1.

### Response

Specify the destination name in the SYMBOLIC DESTINATION clause correctly, then re-execute.

## **JMP0364I-U**

---

**CLAUSE '\$1' ERROR. FILE=\$2.**

### System action

Abnormally terminates the program.

### Explanation

The file name or access name is written for \$2.

### Response

Specify the correct data item in the \$1 clause, then re-execute.

## **JMP0365I-U**

---

**DUPLICATE FONT NAMES WERE FOUND. '\$1'.\$2**

### System action

Abnormally terminates the program.

### Explanation

Multiple fonts indicated by \$1 were installed.

The error address is set in \$2.

### Response

Use the control panel font application to delete unnecessary fonts, then re-execute. Select a font for the control panel from the font-list. Delete duplicate fonts.

## **JMP0370I-U**

---

**INSUFFICIENT STORAGE AVAILABLE TO PERFORM SQL.\$1**

### System action

Abnormally terminates the program.

### Explanation

The error address is set in \$1.

### Response

For the cause and action to be taken, see "[D.1 Virtual Memory Shortages](#)". After the action is taken, re-execute the program.

## JMP0371I-U

---

### ENVIRONMENT INFORMATION FILE ERROR TO PERFORM SQL. '\$1'.\$2

### System action

Abnormally terminates the program.

### Explanation

The character string indicating the error information is output in \$1. Table below lists the texts that can be output to \$1. The error address is output in \$2.

### Response

Specify data in the environment information file correctly, then re-execute.

Table 3.27 \$1 of JMP0371I-U (with ODBC)

\$1	Description
@ODBC_Inf	No ODBC information file was specified, or the specified ODBC information file does not exist.
@SQL_DATASRC	No data source name was specified.
@SQL_SERVER	No server name was specified.
@SQL_USERID	No user ID was specified.
@SQL_PASSWORD	No password was specified.

## JMP0372I-U

---

### START ENVIRONMENT ERROR TO PERFORM SQL. '\$1'. \$2, \$3

### System action

Abnormally terminates the program.

### Explanation

Table below lists the text that can be output to \$1. The error address is set in \$3.

### Response

Eliminate the cause of the error according to the character string output for \$1, then re-execute.

Table 3.28 \$1 of JMP0372I-U

\$1	Description	Programmer Response
LOAD	The runtime library could not be loaded.	Eliminate the cause of the error according to the detail code (*1) written for \$2.
FREE	The runtime library could not be loaded.	Eliminate the cause of the error according to the detail code (*1) written for \$2.

\*1 : See "[Appendix A System Error Codes](#)", and the on-line help of "Visual C++".

## JMP0373I-I

---

### \$1 ERROR. STM=\$2. SERVER=\$3. '\$4'.

#### System action

Continues program processing.

#### Explanation

The type of the client interface is written for \$1. The error SQL statement is written for \$2. The name of the error server is written for \$3.

#### Response

Eliminate the cause of the error according to the error code written for \$4, then re-execute.

For the error code, refer to the error code manual of the client interface.

## JMP0374I-U

---

### UNRECOGNIZABLE SQL STATEMENT WAS FOUND. \$1

#### System action

Abnormally terminates the program.

#### Explanation

The error address is set in \$1.

#### Response

Delete the SQL statement that cannot be used, then re-execute. For SQL statements that cannot be used, see the requirements for each database environment and notes on the environment.

## JMP0375I-U

---

### THE SQL STATEMENT CANNOT BE EXECUTED IN ACCORDANCE WITH THE ENVIRONMENT INFORMATION FILE. '\$1' \$2

#### System action

Abnormally terminates the program.

#### Response

Remove the cause of error while referring to the character string indicated in \$1, then rerun the program. See Table below. \$2 indicates an error address.

Table 3.29 \$1 of JMP0375I-U

\$1	Description	Programmer Response
[Win32] INV-OBJECT-MODULE	A program compiled by a V40 or earlier compiler is executed in an operating environment where OBJECT_INSTANCE is specified for the connection scope in the ODBC information file.	Recompile the program with a V50 or later compiler.
INV-SCOPE-THREAD	An embedded SQL statement written in the class definition is executed in an operating environment where THREAD is specified for the connection scope in the ODBC information file.	Change the value specified for the connection scope. Alternatively, change the program so that only the embedded SQL statement written in the program definition is executed.
INV-SCOPE-OBJECT-INSTANCE	An embedded SQL statement written in the program definition is executed in an operating environment where OBJECT_INSTANCE is	Change the value specified for the connection scope. Alternatively, change the program so that only the

	specified for the connection scope in the ODBC information file.	embedded SQL statement written in the class definition is executed.
--	--	---

### JMP0376I-U

#### ERROR OCCURRED BY OPENING THE ENVIRONMENT OF SymfoWARE TO EXECUTE SQL STATEMENT IN THE MULTITHREAD MODE. '\$1'

##### System action

Abnormally terminates the program.

##### Response

Remove the cause of error while referring to the character string indicated in \$1, then rerun the program. See Table below.

Table 3.30 \$1 of JMP0376I-U

\$1	Description	Programmer response
NOT-INSTALLED	The SymfoWARE client is not installed normally.	Ensure that the SymfoWARE client is installed normally.
ENVIRONMENT-ERROR: SymfoWARE error message	A SymfoWARE operation error has occurred.	A SymfoWARE error message is output simultaneously, so respond accordingly while referring to the SymfoWARE/RDB Message Reference Manual.

### JMP0392I-U

#### THE NETWORK DATABASE FUNCTION CANNOT BE USED.

##### System action

Abnormally terminates the program.

##### Response

Change the program so that it does not use functions specific to GS-series hosts.

When the distributed development support function is used, rerun the program under a debugger.

## 3.3.5 JMP0400 - JMP0499

0400      0410      0420

### JMP0400I-U

#### ACCESS ENVIRONMENT ERROR OCCURRED. SYS=\$1,FILE=\$2,BLK=\$3,\$4=\$5

##### System action

Abnormally terminates the program.

##### Explanation

A system error probably occurred. The following information is written for \$1 to \$5:

- \$1 : Error information from the system, or the character string NONE if the system sends no error information
- \$2 : System information
- \$3 : Control block address at which the error was detected
- \$4 : ERR or REQ

- \$5 : The following is set as the internal error information:

If \$4 is ERR : Error-detected location

If \$4 is REQ : Processing code

#### Response

Collect the error information, then Contact Fujitsu Software Support.

### JMP0410I-U

---

#### STOP RUN STATEMENT MUST NOT BE EXECUTED USING JMPCINT2.

#### System action

Abnormally terminates the program.

#### Response

Replace the STOP RUN statement in the application program with the EXIT PROGRAM statement.

### JMP0420I-I

---

#### CANNOT OBTAIN WINDOW HANDLE. '\$1'.\$2

#### System action

Returns -1.

#### Explanation

The character string indicating the error information is output in \$1. Table below lists the strings that can be output to \$1.

#### Response

Eliminate the cause of the error, then re-execute.

Table 3.31 \$1 of JMP0420I-I

\$1	Description	Programmer Response
ACC-ERROR	A window handle allocation error occurred.	Check for and eliminate the cause of the error according to the FORM RTS code written for \$2. (*1)
INV-ENV	An operating environment error occurred.	Check the COBOL operating environment.
INV-KIND	The file type corresponding to the specified file-identifier is invalid.	Specify the presentation file-identifier.
NON-FILE	The file corresponding to the specified file-identifier does not exist.	Specify the file-identifier correctly, or check if the file was opened normally.

\*1 : Refer to the FORMRTS online manual.

### 3.3.6 JMP0600 - JMP0699

0600      0601      0608      0609      0612      0613      0614      0615      0616

### JMP0600I-I/U

---

#### INSUFFICIENT STORAGE AVAILABLE TO PERFORM SORT OR MERGE STATEMENT. \$1

#### System action

Continues program processing if the severity code is I; aborts the program if the severity code is U. The severity code is determined as follows:

- I : SORT-STATUS is referred to for file definition.
- U : SORT-STATUS is not referred to.

**Explanation**

The error address is set in \$1.

**Response**

For the cause and action to be taken, see "D.1 Virtual Memory Shortages". After the action is taken, re-execute the program.

**JMP0601I-I/U**

**SORT OR MERGE STATEMENT ERROR. \$1. \$2**

**System action**

Continues program processing if the severity code is I; aborts the program if the severity code is U. The severity code is determined as follows:

- I : SORT-STATUS is referred to for file definition.
- U : SORT-STATUS is not referred to.

**Explanation**

The file information (file name or access name) or detailed information is output for \$1. The error address is output for \$2. Table below explains the values output for \$1.

Values of detail information, meanings, and actions to be taken are listed in Table below.

**Response**

Eliminate the cause of the error according to the value output for \$1, then re-execute.

Table 3.32 \$1 of JMP0601I-I/U

\$1	Description	Programmer Response
0	16 is set in the special register SORT-STATUS.	Check "how to use sort".
50	Memory is insufficient	Modify the environment to allocate enough memory (*1)
51	An error occurred during input processing for the record to be sorted.	If the same error occurs when the program is re-executed, a system error probably occurred. Collect the error information, then Contact Fujitsu Software Support.
52	Memory is insufficient.	Modify the environment to allocate enough memory. (*1)
53 54 56 59 62	An error occurred during input processing for the record to be sorted.	If the same error occurs when the program is re-executed, a system error probably occurred. Collect the error information, then Contact Fujitsu Software Support.
100	An error occurred in the sort-merge program.	
101	An error occurred during input processing for the record to be sorted.	
102	An error occurred during output processing for the record to be sorted.	
103	An error occurred during input processing for the record to be merged.	
110	The address of the record to be sorted could not be obtained.	



\$1	Description	Programmer Response
111	The record length is invalid.	Check whether the record length complies with the COBOL specification.
112 113	An error occurred during input processing for the record to be sorted.	If the same error occurs when the program is re-executed, a system error probably occurred. Collect the error information, then Contact Fujitsu Software Support.
114	An error occurred during input processing for the record to be merged.	Correct the program so that it merges the records in the target file after sorting.
208	An error occurred when a temporary file (for sorting and merging) was opened.	The work area may be insufficient. Use environment variable BSORT_TMPDIR and specify a work folder.  Modify the environment to allocate a large enough temporary file. If the same error occurs when the program is re-executed, a system error probably occurred. Collect the error information, then Contact Fujitsu Software Support.
212	The size of the temporary file (for sorting and merging) is insufficient.	Modify the environment (e.g., hard disk) to allocate a large enough temporary file.
214	A temporary file (for sorting and merging) cannot be created.	Modify the environment (e.g., hard disk) to allocate a large enough temporary file.
224	An error occurred during write to a temporary file (for sorting and merging).	If the same error occurs when the program is re-executed, a system error probably occurred. Collect the error information, then Contact Fujitsu Software Support.
250	A sort-merge program error occurred.	
Other	A PowerBSORT error occurred while using PowerBSORT.	Refer to "Error Detail Codes of BSORT Function (errdetail)" in the "PowerBSORT User's Guide"

\*1 : For the action to be taken, see "[D.1 Virtual Memory Shortages](#)".

## JMP0608I-I/U

### RELEASE STATEMENT CANNOT BE EXECUTED IN OUTPUT PROCEDURE. \$1

#### System action

Continues program processing if the severity code is I; aborts the program if the severity code is U. The severity code is determined as follows:

- I : SORT-STATUS is referred to for file definition.
- U : SORT-STATUS is not referred to.

#### Explanation

The error address is written for \$1.

#### Response

Correct the program.

## JMP0609I-I/U

### RETURN STATEMENT CANNOT BE EXECUTED IN INPUT PROCEDURE. \$1

#### System action

Continues program processing if the severity code is I; aborts the program if the severity code is U. The severity code is determined as follows:

- I : SORT-STATUS is referred to for file definition.

- U : SORT-STATUS is not referred to.

#### Explanation

The error address is written for \$1.

#### Response

Correct the program.

### JMP0612I-I/U

---

#### RETURN STATEMENT CANNOT BE EXECUTED AFTER AT END. \$1

##### System action

Continues program processing if the severity code is I; aborts the program if the severity code is U. The severity code is determined as follows:

- I : SORT-STATUS is referred to for file definition.
- U : SORT-STATUS is not referred to.

#### Explanation

The error address is written for \$1.

#### Response

Correct the program so that the RETURN statement is not executed after a file at end condition is produced.

### JMP0613I-I/U

---

#### SORT/MERGE LIBRARY CANNOT BE LOADED. \$1 \$2 \$3

##### System action

Continues program processing if the severity code is I; aborts the program if the severity code is U. The severity code is determined as follows:

- I : SORT-STATUS is referred to for file definition.
- U : SORT-STATUS is not referred to.

#### Explanation

The library file name is set in \$1 and the error code is set in \$2.

Refer to "[Appendix A System Error Codes](#), and the on-line help of Microsoft Visual C++.

#### Note

.....  
If \$1 and \$2 are not output, confirm whether or not PowerBSORT is correctly installed. The error address is set in \$3.  
.....

#### Response

Remove the cause of the error, then re-execute.

### JMP0614I-I/U

---

#### SORT/MERGE STATEMENT CANNOT BE EXECUTED IN AN INPUT/OUTPUT PROCEDURE.\$1

##### System action

Continues the program process if the severity code is I but terminates the program abnormally if the severity code is U.

The severity code is I if special register SORT-STATUS is referenced in the program. Otherwise, the severity code is U.

## Explanation

The error address is set in \$1.

## Response

Modify the program so that the SORT statement or MERGE statement will not be executed while the input or output procedure described in the SORT or MERGE statement is in progress.

### JMP0615I-I/U

---

#### THREAD SYNCHRONIZATION FAILED DURING THE SORT/MERGE STATEMENT. '\$1'. \$2

## System action

Continues program processing if the severity code is I but terminates the program abnormally if the severity code is U. The severity code is I if special register SORT-STATUS is referenced in the program; otherwise, the severity code is U.

## Response

Remove the cause of error while referring to the character string indicated in \$1, then rerun the program. Table below provides explanations and responses of the character string indicated in \$1. \$2 indicates an error address.

Table 3.33 \$1 of JMP0615I-I/U

\$1	Description	Programmer Response
ABANDONED	The program in a thread terminated abnormally, and so lock ownership could not be released normally.	If a thread terminated abnormally immediately before this error, determine the cause of error and respond accordingly.
CODE = 0XXXXX	A system error code is indicated.	Determine the cause of error while referring to the explanation on the system error code, then respond accordingly.

### JMP0616I-U

---

#### THREAD SYNCHRONIZATION FAILED. \$1

## System action

Abnormally terminates the program.

## Response

An error was detected during thread synchronization. If the error occurs frequently, a system failure is assumed. Collect data and contact a supplier. \$1 indicates an error address.

### 3.3.7 JMP0700 - JMP0799

0701    0702    0703    0704    0705    0724    0725    0726    0727    0771  
0772    0773    0774    0775    0776

### JMP0701I-U

---

#### GCB IS BROKEN.

## System action

Abnormally terminates the program.

## Response

The area (GCB) used by the COBOL runtime system is destroyed. Check for the following items, correct the program and rerun it.

- If an item including a subscript, index, reference modification, or OCCURS DEPENDING ON clause is referred to, confirm that the item is within the allowable reference range.
- If there is a parameter for transferring data through the CALL statement, confirm that the sender and receiver have the same parameter attributes. (Be sure to check the length attribute.)
- If a file is used, confirm that the correct record length is referenced. (For example, if SPACE clear processing is performed with the maximum record length instead of the actual record length when a variable-length input file is used, the record length referenced is incorrect.)

#### **JMP0702I-U**

---

##### **LIA IS BROKEN.**

###### System action

Abnormally terminates the program.

###### Response

The area (LIA) used by the COBOL runtime system is destroyed. See "[JMP0701I-U](#)".

#### **JMP0703I-U**

---

##### **RCB IS BROKEN.**

###### System action

Abnormally terminates the program.

###### Response

The area (RCB) used by the COBOL runtime system is destroyed. See "[JMP0701I-U](#)".

#### **JMP0704I-U**

---

##### **DEBUG TABLE IS BROKEN.**

###### System action

Abnormally terminates the program.

###### Response

See "[JMP0701I-U](#)".

#### **JMP0705I-W**

---

##### **INSUFFICIENT STORAGE AVAILABLE. FUNC=\$1.**

###### System action

Cancels the '\$1' function, then continues processing.

###### Explanation

The function name of the debug function is set in \$1.

###### Response

For the cause and action to be taken, see "[D.1 Virtual Memory Shortages](#)". After the action is taken, re-execute the program.

#### **JMP0724I-W**

---

##### **FILE CANNOT BE OPENED. FILE=\$1. '\$2' OPTION IGNORED.**

### System action

Continues processing without outputting '\$2' information.

### Response

- Verify whether the allocation of the file is correct.
- Verify whether the file attribute is correct.
- Verify whether the debugging information is output from two or more processes to the same file.

\$1 indicates the access name of the failing file, and \$2 indicates the debug function name.

## JMP0725I-W

---

### FILE CANNOT BE OPENED. '\$1' OPTION IGNORED. \$2

### System action

Stop outputting '\$1' information to continue processing.

### Explanation

The debug function name is written for \$1.

### Response

Correct the error in the character string in \$2, then rerun the program.

Table 3.34 \$2 of JMP0725I-W

\$2	Description	Programmer Response
ERRCD = 0XXXXX	A system error code (error) is indicated.	Refer to the system error code description.

## JMP0726I-W

---

### THE VALUE OF ENVIRONMENT VARIABLE '\$1' IS INVALID. '\$2' OPTION IGNORED.

### System action

The output of the '\$2' information is canceled, and program processing continues.

### Response

Specify a correct value for the environment variable '\$1,' and retry the operation.

## JMP0727I-W

---

### MAXIMUM SIZE OF THE FILE IS EXCEEDED. FILE='\$1'. '\$2' OPTION IGNORED.

### System action

Output of '\$2' information is canceled, and program processing is continued.

### Response

Check the size of the file specified for the environment variable '\$1,' and retry the operation.

## JMP0771I-W

---

### THE VALUE OF ENVIRONMENT VARIABLE '\$1' IS INVALID.

### System action

Processing continues as though the environment variable (\$1) was not specified.

## Response

- [Win32] Refer to "@CBR\_ATTACH\_TOOL (TOOL(Invoke debugger or COBOL Error Report from application)" and "@CBR\_JUSTINTIME\_DEBUG (Specify inspection using the debugger or the COBOL Error Report at abnormal termination)" in Chapter 5 of the "NetCOBOL User's Guide".
- [Winx64] Refer to "@CBR\_JUSTINTIME\_DEBUG (Specify inspection using the COBOL Error Report at abnormal termination)" in Chapter 5 of the "NetCOBOL User's Guide", and the descriptions about @CBR\_ATTACH\_TOOL in the "NetCOBOL Studio User's Guide".

## JMP0772I-W

### THE INVOKE OF THE \$1 FAILED. '\$2'. '\$3'

#### System action

Processing continues as though the environment variable @CBR\_ATTACH\_TOOL or @CBR\_JUSTINTIME\_DEBUG was not specified.

#### Response

Remove the cause of the error by referring to the string specified to \$2, and execute again.

The line that indicates the tool (COBOL DEBUGGER or COBOL ERROR REPORT) is set to \$1.

Detailed information on the cause of the error is set to \$3.

The table below shows the string set to \$2 and \$3.

Table 3.35 \$2 and \$3 of JMP0772I-W

\$2	Description	Detailed information (\$3)	Programmer Response
SNAP ERROR	COBOL ERROR REPORT did not operate correctly.	COBOL ERROR REPORT could not operate correctly.  Specify @CBR_JUSTINTIME_DEBUG= NO to stop COBOL ERROR REPORT, and re-execute the application.  API=api-name, CODE=errorcode (in hexadecimal)	If an error message is displayed, refer to the contents of the displayed message and troubleshoot the problem.  If logging of COBOL ERROR REPORT is necessary, review the runtime environment, including the following: <ul style="list-style-type: none"> <li>- Whether COBOL is correctly installed</li> <li>- Whether there is sufficient memory</li> <li>- Whether the system is in a state other than the busy state</li> </ul>
API ERROR	A system error was detected.	API=API-name, CODE=error-code (hexadecimal)	Please open a support incident to obtain assistance from a Supplier.
LOGON FAILED	Logon failed.	DOMAIN=domain-name, USER=user-name, PASSWORD=password	Please open a support incident to obtain assistance from a Supplier.
SERVICE NOT RUN	Service is not activated.	NAME=service-name	Open Service from the Control panel and activate the service (\$3).
SERVICE BUSY	Service is in busy state.	NAME=service-name	Execute again. If errors repeatedly occur, determine if there is an operational problem.

## JMP0773I-W

### THE COBOL DEBUGGER DID NOT RESPOND THOUGH PASSED THE TIME-OUT INTERVAL.

#### System action

- [Win32] The system ends COBOL debugger, and then regards that the environment variable @CBR\_ATTACH\_TOOL was not specified, and continues the process.
- [Winx64] The system ends remote debugging that uses NetCOBOL Studio, and then regards that the environment variable @CBR\_ATTACH\_TOOL was not specified, and continues the process.

#### Response

- [Win32] There is no response to the request from COBOL debugger activated. Execute again and respond to the request from COBOL debugger.
- [Winx64] There is no response to the request from NetCOBOL Studio activated. Execute again and respond to the request from COBOL debugger.

## JMP0774I-W

### REMOTE DEBUG ERROR, CONNECTING CLIENT FAILED. \$1. \$2

#### System action

- [Win32] Processing continues as though the environment variable @CBR\_ATTACH\_TOOL or @CBR\_JUSTINTIME\_DEBUG was not specified.
- [Winx64] Processing continues as though the environment variable @CBR\_ATTACH\_TOOL was not specified.

#### Response

Refer to the information set in \$1, fix the cause of the error, and then re-execute. The meaning and corrective action procedure for the information set in \$1 is shown in table below. Detailed information is set in \$2.

Table 3.36 \$1 of JMP0774I-W

\$1	Description	Programmer Response
0	[Win32] The remote debugger resources have not been installed correctly.  [Winx64] The NetCOBOL Studio resources have not been installed correctly.	Install NetCOBOL correctly.
1	winsoc1.1(TCP/IP) is not supported.	Re-execute in an environment that can use winsoc1.1.
2	[Win32] There is an error in the investigation procedure in the environment variable @CBR_ATTACH_TOOL or @CBR_JUSTINTIME_DEBUG.  [Winx64] There is an error in the investigation procedure in the environment variable @CBR_ATTACH_TOOL.	\$2 is not supported in remote debugging. Specify a supported format. The string specified in the environment variable is set in \$2.
10	[Win32] There is an error in the access destination in the environment variable @CBR_ATTACH_TOOL or @CBR_JUSTINTIME_DEBUG.  [Winx64] There is an error in the access destination in the environment variable @CBR_ATTACH_TOOL.	Check that there are no spelling mistakes in the host name for accessing the client.  Check that the host name for accessing the client has been defined.
11		Check that there are no errors in the IP address definition for resolving the host name.  Check that there are no mistakes in the format for the IP address.

\$1	Description	Programmer Response
12		There is a value that is outside the range that can be set for the port number. Set a range from 1024 to 65535.
20	Access to the client failed.	Check that the client remote debugger connector runs on a computer specified in the access destination.  Check that the access is permitted according to the client remote debugger connector access restriction.
21	The version of the remote debugger is not appropriate.	Make sure that the versions of the client and server debuggers are compatible.

## JMP0775I-W

### REMOTE DEBUG ERROR, CLIENT WAS DISCONNECTED. \$1

#### System action

- [Win32] Processing continues as though the environment variable @CBR\_ATTACH\_TOOL or @CBR\_JUSTINTIME\_DEBUG was not specified.
- [Winx64] Processing continues as though the environment variable @CBR\_ATTACH\_TOOL was not specified.

#### Response

Refer to the information set in \$1, fix the cause of the error, and then re-execute. The meaning and corrective action procedure for the information set in \$1 is shown in table below.

Table 3.37 \$1 of JMP0775I-W

\$1	Description	Programmer Response
0	The packet might have been falsified, so access to the client was interrupted.	Verify with the network administrator that the environment is secure.
1	Access to the client was interrupted.	Check whether access was denied because of a restriction on access to the client remote debugger connector.  Access was interrupted because the client application was closed. Verify that the client remote debugger connector has started.  Verify that the network can be used.

## JMP0776I-W

### REMOTE DEBUG ERROR OCCURRED AT '\$2' IN '\$1'. \$3. \$4

#### System action

- [Win32] Processing continues as though the environment variable @CBR\_ATTACH\_TOOL or @CBR\_JUSTINTIME\_DEBUG was not specified.
- [Winx64] Processing continues as though the environment variable @CBR\_ATTACH\_TOOL was not specified.

#### Response

Re-execute. If the problem continues, open a support incident to obtain assistance from a Supplier. The following is set in \$1 to \$4.

- \$1 : Module name
- \$2 : API name
- \$3 : Error code (decimal notation)
- \$4 : Error code description



### 3.3.8 JMP0800 - JMP0899

---

0810      0811      0812      0820      0821      0822      0828      0829      0899

#### JMP0810I-E/U

---

**FAILURE IN \$2 PARAMETER OF THE '\$1' METHOD. \$3 \$4 LINE=\$5**

##### System action

Uses the parameter as it is and continues processing if the severity code is E.

Abnormally terminates the program if the severity code is U.

##### Explanation

The following information is set in \$1 through \$5:

- \$1 : Name of the method with an incorrect parameter is specified.
- \$2 : Parameter specification (USING or RETURNING)
- \$3 : USING specified parameter error details  
    'NUMBER' : The number of parameters is incorrect  
    PARAMETER=n : The n-th parameter is incorrect.
- \$4 : External program name or method name
- \$5 :

[Win32] Statement number (line information [COPY qualification-value] line number.verb-sequence-number-in-a-line)

[Winx64] Statement number (line information [COPY qualification-value] line number)

##### Response

Modify the program so that the method (\$1) indicated by the message will be called with the correct parameter then re-execute the program.

#### JMP0811I-E/U

---

**FAILURE IN CALLING CONVENTIONS OR PARAMETERS OF THE '\$1' PROGRAM. \$2.  
LINE=\$3.**

##### System action

If the severity code is E, the system uses the calling conventions or parameters as-is and continues processing.

If the severity code is U, the system abnormally terminates the program.

##### Response

- [Win32] Correct the program so it can invoke the program (\$1) output in the message with a correct calling conventions or parameters, then rerun it. Note that the external program name or method name is set in \$2, while the statement number (including the line information [COPY qualification-value] line number.verb-sequence-number-in-a-line) is set in \$3.
- [Winx64] Correct the program so it can invoke the program (\$1) output in the message with a correct calling conventions or parameters, then rerun it. Note that the external program name or method name is set in \$2, while the statement number (including the line information [COPY qualification-value] line number) is set in \$3.

#### JMP0812I-E/U

---

**FAILURE IN '\$1' OF CALL STATEMENT. \$2. LINE=\$3.**

##### System action

Continues processing when the severity code is E level, while still using invocation rules or parameters as they are.

Abnormally terminates the program when the severity code is U level.

## Response

Based on the content indicated by \$1, perform the action described in table below.

Table 3.38 \$1 of JMP0812I-E/U

\$1	Programmer Response
USING PARAMETER NUMBER	Match the number of USING phrase parameters
USING nTH PARAMETER (nTH = 1ST, 2ND, 3RD, 4TH...)	Match the size of the nth USING phrase parameters
RETURNING PARAMETER	Match the size of the RETURNING phrase parameters

The following information is specified in \$2 and \$3:

- \$2 : A program name, or a class name and method name
- \$3 :
  - [Win32] The statement number (line-information [COPY qualification-value] line-number.verb-sequence-number-in-a-line).
  - [Winx64] The statement number (line-information [COPY qualification-value] line-number).

## JMP0820I-E/U

---

**SUBSCRIPT/INDEX IS OUT OF RANGE. \$1. LINE=\$2. OPD=\$3 (\$4)**

### System action

Severity code E level: Uses the subscript or index value as is, then continues processing.

Severity code U level: Abnormally terminates the program.

### Explanation

The following information is set in \$1 through \$4:

- \$1 : the outermost program name or method name
- \$2 :
  - [Win32] The statement number (line-information[COPY qualification-value]line-number.verb-sequence-number-in-a-line)
  - [Winx64] The statement number (line-information[COPY qualification-value]line-number)
- \$3 : The data name
- \$4 : the number of dimensions

### Response

Specify a correct value for the subscript or index indicated in the message, then re-execute.

## JMP0821I-E/U

---

**REFERENCE MODIFIER IS OUT OF RANGE. \$1. LINE=\$2. OPD=\$3.**

### System action

Severity code E level: Performs reference with an incorrect value, then continues processing.

Severity code U level: Abnormally terminates the program.

### Explanation

- \$1 : the outermost program name or method name

- \$2 :
  - [Win32] The statement number (line-information[**COPY** qualification-value]line-number.verb-sequence-number-in-a-line)
  - [Winx64] The statement number (line-information[**COPY** qualification-value]line-number)
- \$3 : The data name

### Response

Correct the program so that reference modification of the data item indicated in the message is performed within the specified range.

### JMP0822I-E/U

---

**ODO OBJECT VALUE IS OUT OF RANGE. \$1. LINE=\$2. OPD=\$3. ODO=\$4.**

### System action

Severity code E level: Uses the object value specified in the OCCURS DEPENDING ON clause as is, then continues processing.

Severity code U level: Abnormally terminates the program.

### Explanation

The following information is set in \$1 through \$4:

- \$1 : The outermost program name or method name
- \$2 :
  - [Win32] The statement number (line-information[**COPY** qualification-value]line-number.verb-sequence-number-in-a-line)
  - [Winx64] The statement number (line-information[**COPY** qualification-value]line-number)
- \$3 : The name of the data that refers to the data including the OCCURS DEPENDING outermost-program-name ON clause
- \$4 : The object name specified in the ODO clause

### Response

Specify a correct value for the object (in the OCCURS DEPENDING ON clause) indicated in the message, then re-execute.

### JMP0828I-E/U

---

**INVALID VALUE SPECIFIED. \$1. LINE=\$2. OPD=\$3.**

### System action

Uses the incorrect value as it is and continues processing if the severity code is E.

Abnormally terminates the program if the severity code is U.

### Explanation

The following information is set in \$1 through \$3:

- \$1 : External program name or method name
- \$2 :
  - [Win32] Statement number (line information [**COPY** qualification-value]line-number.verb-sequence-number-in-a-line)
  - [Winx64] Statement number (line information [**COPY** qualification-value]line-number)
- \$3 : Data name

### Response

Modify the program so that the reference modification of the data name indicated by the message will not exceed the range then re-execute the program.

## JMP0829I-E/U

---

### DIVIDED BY ZERO. \$1. LINE=\$2. OPD=\$3.

#### System action

Uses zero as the divisor as it is and continued processing if the severity code is E. The result of dividing by zero depends on the system.  
Abnormally terminates the program if the severity code is U.

#### Explanation

The following information is set in \$1 through \$3:

- \$1 : External program name or method name
- \$2 :  
[Win32] Statement number (line information [COPY qualification-value]line- number.verb-sequence-number-in-a-line)  
[Winx64] Statement number (line information [COPY qualification-value]line- number)
- \$3 : Data name

The operand name is not set if the divisor is a value of an arithmetic expression or a function.

#### Response

Set a value that does not make the divisor zero for the operand indicated by the message then re-execute the program.

## JMP0899I-U

---

### LOGICAL ERROR.

#### System action

Abnormally terminates the programs.

#### Response

The program or dynamic area may be damaged because of a program error. Check for the cause of the error in the same manner as when JMP0701I-U is written.

## 3.3.9 JMP0900 - JMP0999

---

0901	0902	0903	0904	0905	0930	0931	0932	0933	0934
0935	0936	0937							

## JMP0901I-E

---

### FUNCTION \$1 ERROR, ARGUMENT ABSOLUTE VALUE IS MORE THAN 3.53E+15.\$2

#### System action

Returns 0, then continues processing.

#### Explanation

The name of the error function (SIN or COS) is written for \$1.

The error address is set in \$2.

#### Response

Specify the absolute value of the argument within the calculation enabled range, then re-execute.

## JMP0902I-E

---

**FUNCTION \$1 ERROR, ARGUMENT ABSOLUTE VALUE IS MORE THAN 1.0. \$2****System action**

Returns 0, then continues processing.

**Explanation**

The name of the error function (ASIN or ACOS) is written for \$1.

The error address is set in \$2.

**Response**

Specify the absolute value of the argument that can be stored in the definition area, then re-execute.

**JMP0903I-E**

---

**FUNCTION \$1 ERROR, ARGUMENT VALUE IS OUT OF RANGE. \$2****System action**

Returns 0, then continues processing.

**Explanation**

The name of the error function (LOG, LOG10, ANNUITY, FACTORIAL, RANDOM, SQRT, or TAN) is written for \$1.

The error address is set in \$2.

**Response**

Specify the value of the argument that can be stored in the definition area, then re-execute.

**JMP0904I-E**

---

**FUNCTION \$1 ERROR, ARGUMENT VALUE IS INVALID. \$2****System action**

Returns 0, then continues processing.

**Explanation**

The name of the error function is written for \$1.

The error address is set in \$2.

**Response**

Specify the value of the argument that satisfies the condition of each function, then re-execute.

**JMP0905I-E**

---

**FUNCTION ANNUITY ERROR, ARITHMETIC EXCEPTION. \$1****System action**

Returns 0, then continues processing.

**Explanation**

The error address is set in \$1.

**Response**

Specify the value of the argument that satisfies the condition of each function, then re-execute.

**JMP0930I-E/U**

---

**ERROR OCCURRED IN THE '\$2' METHOD OF THE SPECIAL CLASS '\$1'. SCODE=\$3 \$4 \$5 \$6****System action**

If the severity code is E, the system continues processing.

If the severity code is U, the system abnormally terminates the program.

**Explanation**

The following information is set in \$1 through \$6:

- \$1 : Special class name
- \$2 : Method name
- \$3 : Error code of SCODE type posted from COM
- \$4 : The following cases are considered:
  - EXCEPTION CODE=nnnn : Error code posted from the COM server
  - EXCEPTION SCODE=XXXXXXXX (hexadecimal) : Error code of SCODE type posted from the COM server
- \$5 : The following cases are considered:
  - DESCRIPTION=message : Detailed error message posted from the COM server
- \$6 : Error address

\$4 and \$5 are set only if an error occurs on the COM server. However, \$5 is not set unless the COM server posts the detailed error message. See "[Appendix A System Error Codes](#)" and the on-line help or manual of the application (including the COM server).

**Response**

Eliminate the error cause according to the error message in \$3 then re-execute the program.

**JMP0931I-U**

---

**INSUFFICIENT STORAGE AVAILABLE FOR THE '\$2' METHOD OF THE SPECIAL CLASS '\$1'.\$3****System action**

Abnormally terminates the program .

**Explanation**

The error address is set in \$3.

**Response**

For the cause and action to be taken, see "[D.1 Virtual Memory Shortages](#)". After the action is taken, allow the execution environment for method (\$2) to acquire the area then re-execute the program.

**JMP0932I-E/U**

---

**FAILURE IN \$3 PARAMETER OF THE '\$2' METHOD OF THE SPECIAL CLASS '\$1'.\$4 \$5****System action**

If the severity code is E, the system continues processing.

If the severity code is U, the system abnormally terminates the program.

**Explanation**

The following is set in \$1 through \$5:

- \$1 : Special class name
- \$2 : Name of the method with an incorrect parameter is specified.
- \$3 : Parameter specification (USING or RETURNING)

- \$4 : USING specified parameter error details  
    'NUMBER' : The number of parameters is incorrect.  
    PARAMETER=n : The n-th parameter is incorrect.
- \$5 : Error address

#### Response

Modify the program so that the parameter in the method (\$2) indicated by the message will be an attribute usable in the special class and conform to the interface for the calling method then re-execute the program.

#### JMP0933I-E/U

---

### TYPE CONVERSION ERROR OCCURRED IN \$3 PARAMETER OF THE '\$2' METHOD OF THE SPECIAL CLASS '\$1'. \$4 \$5

#### System action

- If the severity code is E, the system continues processing.
- If the severity code is U, the system abnormally terminates the program.

#### Explanation

The following information is set in \$1 through \$5. See the on-line help or manual of the application (including the COM server).

- \$1 : Special class name
- \$2 : Name of the method whose the incorrect parameter attribute is specified
- \$3 : Parameter specification (USING or RETURNING)
- \$4 : USING specified parameter error details  
    PARAMETER=n : The attribute of the n-th parameter is incorrect.
- \$5 : Error address

#### Response

Modify the program so that the parameter corresponding to the attribute for the parameter in the method (\$2) for the COM server will be specified then re-execute the program.

#### JMP0934I-U

---

### ERROR OCCURRED BY THE SPECIFICATION OF THE ELEMENT IN THE '\$1' METHOD OF THE SPECIAL CLASS '\*OLE-ARRAY'. \$2

#### System action

Abnormally terminates the program.

#### Explanation

The error address is set in \$2.

#### Response

Modify the program so that the parameter used to call the method for the \*OLE-ARRAY class object will specify the element that does not conflict with the actual array then re-execute the program.

The possible causes are as follows:

- The specified number of dimensions is incorrect.
- The specified dimension size is incorrect.

#### JMP0935I-U

---

**TOO MANY ITEMS WERE REGISTERED. SPECIAL CLASS=\$1. \$2****System action**

Abnormally terminates the program.

**Response**

Correct the program so that the number of data items to register does not exceed the maximum allowed. Execute again.

- Increase the maximum number of data items to register specified when the object of the special class (\$1) is created. The number should be increased according to the number of data items to register.
- Decrease the number of data items to register to the object of the special class (\$1).

An error address is set to \$2.

**JMP0936I-U**

---

**SPECIAL CLASS '\$1' CANNOT INVOKE IN MULTITHREAD MODE. \$2****System action**

Abnormally terminates the program.

**Response**

Correct the program or operating environment so that a class using COM can be used. Then rerun the program. \$2 indicates an error address.

- Correct the operating environment so that COM can be used in multithread mode.
- Compile the COBOL program with the compiler option THREAD(SINGLE), then run it in single thread mode.

**JMP0937I-U**

---

**INSUFFICIENT STORAGE AVAILABLE FOR TREATING THE SPECIAL CLASS '\$1'. \$2****System action**

Forcibly terminates the program.

**Response**

For details about the cause and corrective action, refer to "[D.1 Virtual Memory Shortages](#)". Take corrective action, and then re-execute the program. Special class name is set in \$1 and also the error address is set in \$2.



# Chapter 4 COBOL Error Report Messages

This section explains messages that may be generated by the COBOL Error Report.

## 4.1 Message Format

COBOL error report messages are written in the format:

```
message-number message-text
```

### Message number

A message number is displayed as:

```
JMWnnnnI-W
```

- JMW : Identifies a message displayed by the COBOL Error Report.
- nnnn : Message sequence number
- I : Operator intervention not required
- W : Severity code

The meanings of severity codes are given in the table below.

Table 4.1 Meanings of severity codes appearing in COBOL Error Report messages

Severity code	Level	Meaning
I (INFORMATION)	Informational message	This information is generated when a report file or a dump file has been created.
W (WARNING)	Minor error	A report file or a dump file is created, but it is necessary to verify whether the execution result is as intended by the user.
E (ERROR)	Medium error	No report file and no dump file are created.
U (UNRECOVERABLE)	Fatal error	The execution is canceled and the program terminated abnormally.

### Message text

Explains the content of the error.

## 4.2 Message Explanation Format

The body of each COBOL Error Report message, the response by the COBOL Error Report, and the programmer response are described in the following format:

```
Message number
Message body (*1)
COBOL Error Report action
    The response by the COBOL Error Report
Programmer response
    The response by the programmer
```

\*1 : "\$n" in the body of each message is a parameter that represents variable information. A character string that denotes a file name in the actual output message replaces this parameter.

## 4.3 Message Details

Messages are listed in numeric order.

0001      0002      0003      0004      0005      0006      0007      0008      0009      0010  
0011      0012      0013      0014      0015      0099

## JMW00011-I

---

**THE ERROR WAS DETECTED IN '\$1'.**

**'\$2'.**

**'\$3'.**

**'\$4'.**

**REPORT FILE:**

**'\$5'**

**DUMP FILE:**

**'\$6'**

### COBOL Error Report action

The COBOL Error Report writes the status of the application to a report file and writes the status of the memory to a dump file.

### Programmer response

Refer to the report file to remove the cause of the error.

- \$1 : the file name of the application file in which the error occurred
- \$2 : the time at which the error occurred
- \$3 : an error type
- \$4 : an error code
- \$5 : the report file name
- \$6 : the dump file name

Either 'APPLICATION ERROR' (application error) or 'COBOL RUN-TIME MESSAGE' (run-time message) is indicated as the error type. For an application error, an exception code and a character string denoting the exception code are generated as an error code; and for a run-time message, a run-time message body is generated. When the occurring error is an object of the dump output, the dump file name is output.

Refer to "COBOL Error Report overview" in the "NetCOBOL Debugging Guide".

## JMW00021-E

---

**THE ERROR WAS DETECTED IN '\$1'.**

**'\$2'.**

**'\$3'.**

**'\$4'.**

**THE OUTPUT TO REPORT FILE FAILED:**

**'\$5'**

**THE OUTPUT TO DUMP FILE FAILED:**

**'\$6'**

### COBOL Error Report action

The COBOL Error Report continues with its processing by generating a message.

### Programmer response

Remove the cause of the error.

- \$1 : the file name of the application file in which the error occurred
- \$2 : the time at which the error occurred
- \$3 : an error type

- \$4 : an error code
- \$5 : the cause to which an error report is not output
- \$6 : the cause to which a dump is not output

Either 'APPLICATION ERROR' (application error) or 'COBOL RUN-TIME MESSAGE' (run-time message) is indicated as the error type. For an application error, an exception code and a character string denoting the exception code are generated as an error code; and for a run-time message, a run-time message body is generated. When the occurring error is an object of the dump output, the cause to which the dump cannot be output is output.

Refer to "COBOL Error Report overview" in the "NetCOBOL Debugging Guide".

## JMW0003I-W

---

### THE START PARAMETER OF THE COBOL ERROR REPORT IS INVALID. '\$1'

#### COBOL Error Report action

The COBOL Error Report continues with its processing by ignoring the specified start parameter (\$1).

#### Programmer response

Specify the valid start parameter.

## JMW0004I-W

---

### THE OUTPUT OF THE ERROR DETECTION MESSAGE TO COMPUTER '\$1' FAILED IN THE COBOL ERROR REPORT. '\$2'

#### COBOL Error Report action

The COBOL Error Report continues with its processing by writing a message box or event log to the local computer.

#### Programmer response

Check the output destination (\$2) and the computer name (\$1) specified in the environment variable information @CBR\_JUSTINTIME\_DEBUG. Either 'MESSAGE BOX' (message box) or 'EVENT LOG' (event log) is generated as an output destination.

- Verify the validity of the computer name. Correct as required.
- Check to see if the specified computer is active. If inactive, turn on the computer.

Refer to "@CBR\_JUSTINTIME\_DEBUG" in Chapter 5 of the "NetCOBOL User's Guide".

## JMW0005I-U

---

### THE ERROR OCCURRED IN THE COBOL ERROR REPORT. '\$1'

#### COBOL Error Report action

The COBOL Error Report terminates abnormally by aborting the affected application.

#### Programmer response

If \$1 is 'INTERNAL ERROR =xxxx,' contact the technical support. "xxxx" denotes an internal error code (decimal).

If \$1 is 'OUT-MEMORY,' one of the following conditions is conceivable:

- Little memory available
  - Add to memory as needed.
- Little virtual memory available
  - Add to virtual memory as needed.

- Memory shared by a concurrently running application
  - Shut down the concurrently running application.

If \$1 is SYSTEM ERROR=xxxx, it indicates an error code (hexadecimal) from the system and the meaning of the error code. Refer to "[Appendix A System Error Codes](#)" to determine the cause of the error and remove its cause.

## JMW0006I-U

---

### FAILED TO ATTACH TO THE PROCESS: \$1 (\$2)

#### COBOL Error Report action

The COBOL Error Report terminates abnormally by continuing the application.

#### Programmer response

The \$2 indicates the system error code (hexadecimal). The \$1 indicates the meaning of the error code.

- **[Win32]** If the COBOL Error Report was started for applications that do not respond, check that the process ID specified in the start parameter -p is correct.
- Set "NO" to the environment variable @CBR\_JUSTINTIME\_DEBUG, and execute again. The error message that became a chance that COBOL Error Report starts is displayed, and deal referring to the error message.

Refer to "@CBR\_JUSTINTIME\_DEBUG" in Chapter 5 of the "NetCOBOL User's Guide".

## JMW0007I-U

---

### THE PROCESS IS TERMINATED DURING THE ERROR DIAGNOSIS.

#### COBOL Error Report action

The COBOL Error Report outputs the message and terminates abnormally.

#### Programmer response

Set "NO" to the environment variable @CBR\_JUSTINTIME\_DEBUG, and execute again. The error message that became a chance that COBOL Error Report starts is displayed, and deal referring to the error message.

Refer to "@CBR\_JUSTINTIME\_DEBUG" in Chapter 5 of the "NetCOBOL User's Guide".

## JMW0008I-I

---

### DIAGNOSED AN APPLICATION WITH NO RESPONSE. REPORT FILE: '\$1'

#### COBOL Error Report action

The COBOL Error Report generates the status of the application in the report file.

#### Programmer response

Check the report file and remove the cause of the error. The \$1 indicates the report file name.

## JMW0009I-E

---

### DIAGNOSED AN APPLICATION WITH NO RESPONSE, BUT FAILED TO OUTPUT A REPORT FILE. '\$1'

#### COBOL Error Report action

The COBOL Error Report outputs the message and continues processing.

#### Programmer response

Remove the cause of output failure. The \$1 is a character string in the format shown below. The system error code is a hexadecimal value.

'SYSTEM ERROR = system error code (error code meaning)'

Specify a folder to which you have access rights in the start parameter "-r" when the cause of the report file failure is: 'SYSTEM ERROR = 0x00000005 (Access is denied.)'

Refer to "Start parameter" in the "NetCOBOL Debugging Guide".

#### JMW0010I-I

---

**WATCHED THE WRITING OF AN AREA.  
REPORT FILE:  
'\$1'**

##### COBOL Error Report action

The COBOL Error Report writes historical information concerning the overwritten area in the report file.

##### Programmer response

Check the report file and remove the cause of the area destruction. The \$1 indicates the name of the created report file.

#### JMW0011I-E

---

**WATCHED THE WRITING OF AN AREA, BUT FAILED TO OUTPUT A REPORT FILE. '\$1'**

##### COBOL Error Report action

The COBOL Error Report outputs the message and continues processing.

##### Programmer response

Remove the cause of output failure. The \$1 is a character string in the format shown below. The system error code is a hexadecimal value.

'SYSTEM ERROR = system error code (error code meaning)'

Specify a folder to which you have access rights in the start parameter "-r" when the cause of the report file output failure is: 'SYSTEM ERROR = 0x00000005 (Access is denied.)'

Refer to "Start parameter" in the "NetCOBOL Debugging Guide".

#### JMW0012I-U

---

**THE ADDRESS OF THE WATCH AREA IS NOT SPECIFIED.**

##### COBOL Error Report action

The COBOL Error Report outputs the message and terminates abnormally.

##### Programmer response

Use the start parameter "-w" to specify the watch area address in environment variable @CBR\_ATTACH\_TOOL. Then, execute again.

#### JMW0013I-W

---

**THE ERROR OCCURRED IN '\$1'.  
'\$2'.  
'\$3'.  
'\$4'.  
REPORT FILE:  
'\$5'  
THE OUTPUT TO DUMP FILE FAILED:  
'\$6'**

##### COBOL Error Report action

Though the COBOL Error Report made the report file, it failed in the dump file creation. The message is output, and processing is continued.

## Programmer response

Remove the cause to which the dump file is not output.

- \$1 : the file name of the application file in which the error occurred
- \$2 : the time at which the error occurred
- \$3 : an error type
- \$4 : an error code
- \$5 : the report file name
- \$6 : the cause to which dump file is not output

Either 'APPLICATION ERROR' (application error) or 'COBOL RUN-TIME MESSAGE' (run-time message) is indicated as the error type. For an application error, an exception code and a character string denoting the exception code are generated as an error code; and for a run-time message, a run-time message body is generated.

## JMW0014I-W

---

**THE ERROR OCCURRED IN '\$1'.**

**'\$2'.**

**'\$3'.**

**'\$4'.**

**THE OUTPUT TO REPORT FILE FAILED:**

**'\$5'**

**DUMP FILE:**

**'\$6'**

## COBOL Error Report action

Though the COBOL Error Report made the dump file, it failed in the report file creation. The message is output, and processing is continued.

## Programmer response

Remove the cause to which the report file is not output.

- \$1 : the file name of the application file in which the error occurred
- \$2 : the time at which the error occurred
- \$3 : an error type
- \$4 : an error code
- \$5 : the cause to which an error report is not output
- \$6 : the dump file name

Either 'APPLICATION ERROR' (application error) or 'COBOL RUN-TIME MESSAGE' (run-time message) is indicated as the error type. For an application error, an exception code and a character string denoting the exception code are generated as an error code; and for a run-time message, a run-time message body is generated.

## JMW0015I-W

---

**THE ERROR OCCURRED IN '\$1'.**

**'\$2'.**

**'\$3'.**

**'\$4'.**

**REPORT FILE:**

**'\$5'**

**DUMP FILE:**

**'\$6'**

**Could not delete the dump file:'\$7'.  
Please confirm the access authority of the folder and the dump file.**

#### COBOL Error Report action

A COBOL Error Report and dump file were created, but failed to delete the oldest dump file dump to the output folder. A message is output, and processing continues.

#### Programmer response

Remove the cause to which the dump file is not delete.

- \$1 : the file name of the application file in which the error occurred
- \$2 : the time at which the error occurred
- \$3 : an error type
- \$4 : an error code
- \$5 : the report file name
- \$6 : the dump file name
- \$7 : the dump file name that failed to delete

Either 'APPLICATION ERROR' (application error) or 'COBOL RUN-TIME MESSAGE (run-time message) is indicated as the error type. For an application error, an exception code and a character string denoting the execution code are generated as an error code, and for a run-time message, a run-time message body is generated.

#### **JMW0099I-U**

---

**THE APPLICATION ERROR OCCURRED. '\$1'. '\$2'. '\$3'. '\$4'.**

#### COBOL Error Report action

Though the COBOL Error Report generated the dump file, the report file creation failed. The message is output, and processing is continued.

#### Programmer response

Remove the cause.

- \$1 : the file name of the application file in which the error occurred
- \$2 : the module name of the application file in which the error occurred
- \$3 : the position in which the error occurred
- \$4 : an exception code

# Appendix A System Error Codes

The system error codes are listed in the table below.

Table A.1 System error codes

CODE	Explanation	Programmer Response
2 (0x02)	Specified file cannot be found.	[Win32] Verify the runtime environment information @CBR-SCR-KEYDEFFILE is specified correctly.
4 (0x04)	The file cannot be accessed.	Verify the runtime environment.
5 (0x05)	Access is denied.	Verify whether the file is allocated correctly.
6 (0x06)	Invalid handle.	Verify the runtime environment.
8 (0x08)	Command cannot be processed because the applicable storage area is insufficient.  Not enough storage is available to process this command.	Do the following, then re-execute: <ul style="list-style-type: none"> <li>- Stop all applications that are executing at the same time</li> <li>- Confirm the size of real storage and increase it if necessary</li> <li>- Confirm the size of virtual storage and increase it if necessary</li> </ul>
13 (0x0d)	The file is read-only.	Verify the file attribute.
15 (0x0F)	The system cannot find the drive specified.	Verify whether the drive name is correct.
19 (0x13)	The media is write protected.	Verify the disk.
20 (0x14)	A disk unit is defective.	Confirm that the disk unit is not damaged.
21 (0x15)	The drive is not ready.	Verify the drive.
34 (0x22)	The incorrect disk is in the drive.	Verify the disk.
53 (0x35)	The network path was not found.	Verify the specified network path name.
59 (0x3B)	An unexpected network error occurred.	Verify whether the network environment is set up correctly.
86 (0x56)	The specified network password is not correct.	Verify the specified network password.
126 (0x7E)	The specified module could not be found.	Verify to see if the DLL for the called program exists in any of the following folders: <ul style="list-style-type: none"> <li>- The folders specified in the environment variable PATH</li> <li>- The folder in which the calling program resides</li> <li>- Current folder</li> </ul> A called program DLL imports a calling program. Please verify the calling program name (*1) and existence of the called program DLL in one of the above folders.
127 (0x7F)	The specified procedure could not be found.	Verify to see if the program name is exported in the DLL for the called program. (*1)
206 (0xCE)	The file name is too long.	Verify the file name.
193 (0xC1)	It is not a valid Win32 application.	[Win32] Please confirm that the DLL of the called program is a 32bit application.  [Win64] Please confirm that the DLL of the called program is a 64bit application.
1157 (0x485)	One of the library files needed to run this application cannot be found.	Verify to see if the DLL for the called program exists in any of the following folders.



CODE	Explanation	Programmer Response
		<ul style="list-style-type: none"> <li>- The folders specified in the environment variable PATH</li> <li>- The folder of the calling program</li> <li>- Current folder</li> </ul>
1224 (0x4c8)	The demanded operation cannot be executed in the file in the user map section.	<p>The file is used exclusively. Verify the following:</p> <ul style="list-style-type: none"> <li>- A file with an error was used with exclusive software (e.g. virus verify software ,OS).</li> <li>- The batch file program cannot be synchronized.(*2)</li> </ul>
1231 (0x4CF)	The network location cannot be accessed.	Verify that the network environment is set up correctly.
1785 (0x6F9)	The disk may be not formatted.	Verify that the disk is formatted.

- \*1 :

- [Win32] You can verify using the DUMPBIN command.
- [Winx64] You can verify using the LINK command / DUMP option.

For details, refer to "Other Commands" in Appendix I of the "NetCOBOL User's Guide". For description and details on other error codes, refer to the Visual C++ on-line help.

- \*2 : Use the "/WAIT" option to synchronize the batch file program.

## Appendix B SCODE Type Error Codes

[Win32] The contents of SCODE type error codes are shown in the table below.

Table B.1 SCODE type error codes

Code	Description	Response
Ox80004002 (-2147467262)	COM server CREATE-OBJECT method does not support the Automation Function.	COBOL accesses the COM server by using the Automation Function. Therefore, specify a COM server which supports the Automation Function.
Ox8001ffff (-2147352577)	An unexpected error occurred.	Execute the program again after you confirm if the COM server works correctly.
Ox80020003 (-2147352573)	A method that the COM server does not define is going to be called, or the read only property is going to be set.	Correct the program so that the program matches with the interface of the method to call.
Ox80020005 (-2147352571)	The attribute of the argument of the method is incorrect.	
Ox80020006 (-2147352570)	The method COM server does not define is going to be called.	Correct the program so that the method defined by the COM server is called.
Ox80020009 (-2147352567)	COM server detected an error during the execution of a method.	Solve the problem by referring to the detailed information of the error set by COM server. When this code is notified by the system, "0 (exception occurred)" is returned by GET-ERROR-TYPE method and the code notified by COM server is returned by GET-SCODE method if exception process of exception object of COM-EXCEPTION class is defined. If exception process of exception object of COM-EXCEPTION class is not defined, this code and the detailed information of the error is displayed in an error message. (*1)
Ox8002000a (-2147352566)	The attribute of the argument of the method is incorrect.	Correct the program so that it matches with the interface of the method to call.
Ox8002000b (-2147352565)	The dimension or element of the array of *COM-ARRAY class object is incorrect.	Correct the program so that the element consistent with the actual array is specified.
Ox8002000d (-2147352563)	Object cannot be updated or deleted because the array of *COM-ARRAY class object is used by the COM server.	Correct the program so that object is updated or deleted after the COM server releases the array.
Ox8002000e (-2147352562)	The number of the argument of the method is incorrect.	Correct the program so that it matches with the interface of the method to call.
Ox80030005 (-2147287035)	You cannot access to the file specified by GET-OBJECT method.	Confirm if the file exists in the path specified in the program.
Ox8004000e (-2147221490)	OLE2.DLL cannot be initialized because COMOBJ.DLL is old.	Confirm that the COM server is installed correctly.
Ox80040151 (-2147221167)	The key could not be written to the registry.	Execution environment registry may be destroyed. Confirm the contents of the registry file.
Ox80040154 (-2147221164)	The COM server specified by CREATE-OBJECT method is not registered to the registry.	Confirm that the COM server is installed correctly.

Code	Description	Response
Ox800401e0 (-2147221024)	You could not be connected via network to the file specified by GET-OBJECT method or the COM server associated with the file.	Confirm that the network is connected correctly.
Ox800401e4 (-2147221020)	The file name specified by GET-OBJECT method is incorrect.	Correct the program so that the correct name is specified.
Ox800401e5 (-2147221019)	The file specified by GET-OBJECT method or the COM server associated with the file cannot be found.	Confirm that the file specified to the execution environment and the COM server associated with the file exist.
Ox800401e7 (-2147221017)	The COM server associated with the file specified by GET-OBJECT method does not support Automation Function.	COBOL accesses to the COM server by using the Automation Function. Therefore specify a COM server which supports the Automation Function.
Ox800401f3 (-2147221005)	The PROGRAM-ID specified by CREATE-OBJECT is incorrect.	Correct the program so that the correct PROGRAM-ID is specified by CREATE-OBJECT method.
0x8004E002 (-2147164158)	Transaction aborted.	This is not an error. It is reported as an exception when the entire transaction is aborted while the Commit method is invoked.
0x8004E004 (-2147164156)	This object has no linked context.	This object may not be the one that was created using the CreateInstance method for context objects.
0x8004E005 (-2147164155)	The specified class is not registered as a transaction component.	Register the specified class to MTS.
0x8004E00C (-2147164148)	The roll specified in arguments does not exist.	Specify a correct roll.
0X8007000E (-2147024882)	This processing cannot be performed because there is no free space in the virtual storage area used for server application execution.	Determine the cause of error and respond accordingly, then retry. (*2)
Ox80070057 (-2147024809)	The number of argument of the method or attribute is incorrect.	Correct the program so that it matches with the interface of the method to call.
Ox80080005 (-2146959355)	Executing the server application failed.	Confirm that the COM server is installed and works correctly.

- \*1 : See "`*COM_EXCEPTION` class" for the exception object of `*COM_EXCEPTION` class.

- \*2 : For the cause of error and a suitable response, see "[D.1 Virtual Memory Shortages](#)".

The methods described in the table above include the processes of reference/set of the COM server properties.

Notification of a code except the above may mean the `SCODE` assigned by the COM server independently was notified, or a system failure occurred. In that case, confirm that the COM server works correctly, and then contact the developer of the COM server.

## Appendix C COBOL File System Error Codes

This section explains the details of error codes that may be output by the COBOL file system when invoked from other products such as PowerBSORT. Although these error codes are similar to the appendix "I-O Status List" of the "NetCOBOL User's Guide", there are differences and these codes are not returned in the FILE STATUS item.

Table C.1 COBOL file system runtime error codes

Code (Hexadecimal Number)		Explanation	Programmer Response
High	Low		
10		Requested to make an entry after the end of a file or before the beginning of a file.	Check whether the number of input character items are correct.
21		An error was found in the order of a primary key.	Correct the program so that the key values are written in ascending order, or so that the record key values read by the preceding READ statement are not changed.
22		A new record key was duplicated in a file in which the duplicate keys are not allowed.	Correct the program so that the key is not duplicated.
23		The specified record does not exist.	Change the logic so that no attempt is made to operate on a record that does not exist.
24		Insufficient disk space.	Add more disk space and try again.
24	01	The record number specified for writing a relative record file was invalid (zero).	Specify a value for the relative record number.
24	02	Writing a record caused the maximum file size to be exceeded.	Split the file so that the file does not exceed the maximum file size.
30	01 mm nn 02 mm nn	The COBOL file system encountered an operating system error.	Correct the error returned from OS specified in nn mm.
30	01 01	Memory acquisition failed.	Increase the available memory or virtual memory (swap).
30	03 0A	No single record exists.	Store at least one record.
30	04 0A	More files than accepted exist.	Contact NetCOBOL Support. (*)
30	05 0A	Handle name error.	Contact NetCOBOL Support. (*)
35		A file with the specified file name does not exist.	Confirm if the specified file name or path name exists.
37		Access was mismatched against the file property.	Contact NetCOBOL Support. (*)
37	07	Issued an open output or I-O instruction against a read-only file.	Confirm the file attribute.
38		Cannot open a file closed with a lock.	Do not operate on a file after it is closed with a lock.
39		Cannot open a file because of a mismatch of file properties.	The file property specified in a parameter or option must match with that of the physical file.
39	01	Mismatched file organization.	The file organization specified in a parameter or option must match with that of the physical file.

Code (Hexadecimal Number)		Explanation	Programmer Response
High	Low		
39	02	Mismatched minimum record length.	The minimum record length specified in a parameter or option must match with that of the physical file.
39	03	Mismatched maximum record length.	The maximum record length specified in a parameter or option must match with that of the physical file.
39	04	Mismatched minimum block length.	Contact NetCOBOL Support. (*)
39	05	Mismatched maximum block length.	Contact NetCOBOL Support. (*)
39	06	Mismatched record delimiter.	When the file property specified in a parameter or option is record sequential variable-length format, confirm that the physical file is the same format. If not, contact NetCOBOL Support.
39	07	Mismatched code set.	Contact NetCOBOL Support. (*)
39	08	Mismatched collation sequence.	Contact NetCOBOL Support. (*)
39	09	Mismatched record format.	Contact NetCOBOL Support. (*)
39	0A	Mismatched padding character.	Contact NetCOBOL Support. (*)
39	30-7F	Mismatched properties (an offset, size, WITH DUPLICATES, etc.) for a key item in an indexed file.	The key property of an indexed file must match with that of the physical file.
43		An error occurred in the final reading.	Contact NetCOBOL Support. (*)
90	01	Contradiction of access with open processing.	Contact NetCOBOL Support. (*)
90	04	Contradiction of access with the file organization.	Contact NetCOBOL Support. (*)
90	05	Contradiction of the file truncate instruction with another user.	Contact NetCOBOL Support. (*)
90	06	A server session is rejected.	Contact NetCOBOL Support. (*)
90	07	Invalid access against a read-only file.	Contact NetCOBOL Support. (*)
90	08	Unsupported access.	Contact NetCOBOL Support. (*)
90	09	Insufficient message area.	Contact NetCOBOL Support. (*)
90	10	Invalid session ID.	Contact NetCOBOL Support. (*)
92		Unclosed file.	Contact NetCOBOL Support. (*)
92	01	Open issue against a file already opened.	Contact NetCOBOL Support. (*)
93		Invalid file.	Contact NetCOBOL Support. (*)
93	02	A file is locked with another file's connector.	Delete the record locking state from the other file's connector.
93	06	Cannot open because a file already exists.	Use a folder without a file or use a different file name.
94		Cannot open the file because the file attributes do not match.	Make sure that the attributes specified in parameters and options match the attributes of the physical file.

Code (Hexadecimal Number)		Explanation	Programmer Response
High	Low		
94	21	The file organizations do not match.	Make sure that the file organization specified in parameters and options matches the file organization of the physical file.
94	22	The minimum record lengths do not match.	Make sure that the minimum record length specified in parameters and options matches the minimum record length of the physical file.
94	23	The maximum record lengths do not match.	Make sure that the maximum record length specified in parameters and options matches the maximum record length of the physical file.
94	24	The minimum block lengths do not match.	Contact NetCOBOL Support. (*)
94	25	The maximum block lengths do not match.	Contact NetCOBOL Support. (*)
94	26	The record delimiters do not match.	Make sure that the maximum record length specified in parameters and options matches the maximum record length of the physical file. If the file attribute specified in parameters and options is a record sequential file of variable-length format, make sure that the physical file is a record sequential file of variable-length format. In any other case, contact NetCOBOL Support.
94	27	The code sets do not match.	Contact NetCOBOL Support. (*)
94	28	The collation sequences do not match.	Contact NetCOBOL Support. (*)
94	29	The record formats do not match.	Contact NetCOBOL Support. (*)
94	2A	The embedded characters do not match.	Contact NetCOBOL Support. (*)
94	30-5F	Attributes of indexed file key items (such as offset, size, and WITH DUPLICATES setting) do not match.	Make sure that the attributes of indexed file keys match the attributes of the physical file.
94	60	Insufficient disk space to create the file.	Increase the available memory or virtual memory (swap).
94	61	Insufficient disk space to create the file.	Increase the available disk space and try again.
94	64	There is an error in the specified file name.	Make sure that the file name does not include any invalid characters.
96		Undefined file position.	Contact NetCOBOL Support. (*)
97	01	An inappropriate character exists in the record of the line sequential file.	Contact NetCOBOL Support. (*)
97	02	Inappropriate character.	Contact NetCOBOL Support. (*)
97	03	A record area shorter than the minimum record length is specified.	Contact NetCOBOL Support. (*)
97	04	A record area longer than the maximum record length is specified.	Contact NetCOBOL Support. (*)
97	07	Mismatched record length.	Contact NetCOBOL Support. (*)
98		Invalid file structure.	Contact NetCOBOL Support. (*)
99		A file is locked with another file's connector.	Delete the record locking state from the other file's connector.

\* : Open a support incident to obtain assistance from a NetCOBOL Support Engineer.

# Appendix D Notes

## D.1 Virtual Memory Shortages

Virtual memory shortages when COBOL programs are executing may be caused by one of the problems listed below. In each case, the process is to review the environment and program structure at the time of the memory shortage, and apply the appropriate remedy.

### Environmental Problems

- Too little installed memory.  
Extend the memory.
- Too little virtual memory.  
Increase the space available for virtual memory.
- Other applications executing at the same time are consuming the available memory.  
Stop one or more of the other applications.

### Program Structural Problems

- Too many files open at the same time in the execution unit.  
Reduce number of files open at the same time.
- Too many data items or file declarations use the EXTERNAL phrase in the execution unit.  
Reduce the use of EXTERNAL data.
- Too many objects (instances) are used simultaneously in the execution unit.  
Reduce the number of simultaneously active objects.

### Others

- **[Win32]** The executed application destroys the memory area.  
Use the interactive debugger, CHECK function, or memory check function to investigate the cause and correct the program. Refer to "How to Use the Interactive Remote Debugger", "Using the CHECK Function", and "Using the Memory Check Function" in the "NetCOBOL Debugging Guide".
- **[Winx64]** The executed application destroys the memory area.  
Use the remote debugging function of NetCOBOL Studio, CHECK function, or memory check function to investigate the cause and correct the program. For the remote debugging function of NetCOBOL Studio, refer to the "NetCOBOL Studio User's Guide". For the CHECK Function and the Memory Check Function, refer to the "NetCOBOL Debugging Guide".