Preface

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:

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 1 Messages Output by WINCOB and Compile Commands</td>
<td>Details of the WINCOB messages and Compile Commands messages.</td>
</tr>
<tr>
<td>Chapter 2 COBOL Compiler Messages</td>
<td>Details of the COBOL Compiler messages.</td>
</tr>
<tr>
<td>Chapter 3 COBOL Runtime System Messages</td>
<td>Details of the COBOL Runtime System.</td>
</tr>
<tr>
<td>Chapter 4 COBOL Error Report Messages</td>
<td>Details of the COBOL Error Report.</td>
</tr>
<tr>
<td>Appendix A System Error Codes</td>
<td>Details of the System Error Codes.</td>
</tr>
<tr>
<td>Appendix B SCODE Type Error Codes</td>
<td>Details of the SCODE Format Error Codes.</td>
</tr>
<tr>
<td>Appendix C COBOL File System Error Codes</td>
<td>Details of the File System Error Codes.</td>
</tr>
<tr>
<td>Appendix D Notes</td>
<td>Notes.</td>
</tr>
</tbody>
</table>

Conventions Used in this Manual

This manual uses the following typographic conventions.

<table>
<thead>
<tr>
<th>Example of Convention</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>setup</td>
<td>Characters you enter appear in bold.</td>
</tr>
<tr>
<td>Program-name</td>
<td>Underlined text indicates a placeholder for information you supply.</td>
</tr>
<tr>
<td>ENTER</td>
<td>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.</td>
</tr>
<tr>
<td>...</td>
<td>Ellipses indicate the item immediately preceding can be specified repeatedly.</td>
</tr>
</tbody>
</table>
Example of Convention | Description
--- | ---
Edit, Literal | Names of pull down menus and options appear with the initial letter capitalized.
[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 ALL | 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 TO 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:

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft(R) Windows Server(R) 2012 R2 Datacenter</td>
<td>Windows Server 2012 R2</td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2012 R2 Standard</td>
<td>Windows Server 2012 R2</td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2012 R2 Essentials</td>
<td>Windows Server 2012 R2</td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2012 R2 Foundation</td>
<td>Windows Server 2012 R2</td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 R2 Datacenter</td>
<td>Windows Server 2008 R2</td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 R2 Standard</td>
<td>Windows Server 2008 R2</td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 R2 Essentials</td>
<td>Windows Server 2008 R2</td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 R2 Foundation</td>
<td>Windows Server 2008 R2</td>
</tr>
<tr>
<td>Product Name</td>
<td>Abbreviation</td>
</tr>
<tr>
<td>----------------------------------------------------------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 R2 Foundation</td>
<td></td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 R2 Datacenter</td>
<td></td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 Foundation</td>
<td>Windows Server 2008</td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 Standard</td>
<td>or</td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 Standard without Hyper-V(TM)</td>
<td>Windows Server 2008(x64)</td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 Enterprise</td>
<td></td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 Enterprise without Hyper-V(TM)</td>
<td></td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 Datacenter</td>
<td></td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 Datacenter without Hyper-V(TM)</td>
<td></td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 R2 Foundation</td>
<td></td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 R2 Standard</td>
<td></td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 R2 Enterprise</td>
<td></td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2008 R2 Datacenter</td>
<td></td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2003, Standard x64 Edition</td>
<td>Windows Server 2003</td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2003, Enterprise x64 Edition</td>
<td>or</td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2003 R2, Standard x64 Edition</td>
<td>Windows Server 2003(x64)</td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2003 R2, Enterprise x64 Edition</td>
<td></td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2003, Standard Edition</td>
<td></td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2003 R2, Standard Edition</td>
<td></td>
</tr>
<tr>
<td>Microsoft(R) Windows Server(R) 2003 R2, Enterprise Edition</td>
<td></td>
</tr>
<tr>
<td>Windows(R) 8.1</td>
<td>Windows 8.1(x64)</td>
</tr>
<tr>
<td>Windows(R) 8.1 Pro</td>
<td></td>
</tr>
<tr>
<td>Windows(R) 8.1 Enterprise</td>
<td></td>
</tr>
<tr>
<td>Windows(R) 8</td>
<td>Windows 8(x64)</td>
</tr>
<tr>
<td>Windows(R) 8 Pro</td>
<td></td>
</tr>
<tr>
<td>Windows(R) 8 Enterprise</td>
<td></td>
</tr>
<tr>
<td>Windows(R) 7 Home Premium</td>
<td>Windows 7</td>
</tr>
<tr>
<td>Windows(R) 7 Professional</td>
<td>or</td>
</tr>
<tr>
<td>Windows(R) 7 Enterprise</td>
<td>Windows 7(x64)</td>
</tr>
<tr>
<td>Windows(R) 7 Ultimate</td>
<td></td>
</tr>
<tr>
<td>Windows Vista(R) Home Basic</td>
<td>Windows Vista</td>
</tr>
<tr>
<td>Windows Vista(R) Home Premium</td>
<td></td>
</tr>
<tr>
<td>Windows Vista(R) Business</td>
<td></td>
</tr>
<tr>
<td>Windows Vista(R) Enterprise</td>
<td></td>
</tr>
<tr>
<td>Windows Vista(R) Ultimate</td>
<td></td>
</tr>
<tr>
<td>Microsoft(R) Windows(R) XP Home Edition Operating System</td>
<td>Windows XP</td>
</tr>
<tr>
<td>Product Name</td>
<td>Abbreviation</td>
</tr>
<tr>
<td>----------------------------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Microsoft(R) Windows(R) XP Professional Operating System</td>
<td></td>
</tr>
<tr>
<td>Microsoft(R) Visual C++(R) development system</td>
<td>Visual C++</td>
</tr>
</tbody>
</table>

- The Microsoft Windows products listed below are referred to in this manual as "Windows(32)".
  - Windows Server 2008
  - Windows Server 2003
  - Windows 7
  - Windows Vista
  - Windows XP

- 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:

<table>
<thead>
<tr>
<th>Indication</th>
<th>Corresponding system</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Windows Server 2003 NetCOBOL V10</td>
</tr>
<tr>
<td></td>
<td>Windows 7 NetCOBOL V10</td>
</tr>
<tr>
<td></td>
<td>Windows Vista NetCOBOL V10</td>
</tr>
<tr>
<td></td>
<td>Windows XP NetCOBOL V10</td>
</tr>
</tbody>
</table>

| Winx64]    | Windows Server 2012 R2 NetCOBOL V11  |
|            | Windows Server 2012 NetCOBOL V11    |
|            | Windows Server 2008 R2 NetCOBOL V11  |
|            | 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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March 2014
## Contents

Chapter 1 Messages Output by WINCOB and Compile Commands.................................................................................................................. 1

Chapter 2 COBOL Compiler Messages................................................................................................................................................................. 3
  2.1 Message Format.................................................................................................................................................................................. 3
  2.2 Message Details.................................................................................................................................................................................. 4
    2.2.1 JMN0000 - JMN0999........................................................................................................................................................... 4
    2.2.2 JMN1000 - JMN1999......................................................................................................................................................... 13
    2.2.3 JMN2000 - JMN2999........................................................................................................................................................ 181
    2.2.4 JMN3000 - JMN3999........................................................................................................................................................ 489
    2.2.5 JMN5000 - JMN5999........................................................................................................................................................ 642
    2.2.6 JMN6000 - JMN6999........................................................................................................................................................ 737
    2.2.7 JMN9000 - JMN9999........................................................................................................................................................ 738
    2.2.8 ODBC............................................................................................................................................................................... 794

Chapter 3 COBOL Runtime System Messages................................................................................................................................................... 822
  3.1 Message Format.............................................................................................................................................................................. 822
  3.2 Message Explanation Format.......................................................................................................................................................... 823
  3.3 Message Details.............................................................................................................................................................................. 824
    3.3.1 JMP0000 - JMP0099........................................................................................................................................................ 824
    3.3.2 JMP0100 - JMP0199........................................................................................................................................................ 838
    3.3.3 JMP0200 - JMP0299........................................................................................................................................................ 840
    3.3.4 JMP0300 - JMP0399........................................................................................................................................................ 847
    3.3.5 JMP0400 - JMP0499........................................................................................................................................................ 865
    3.3.6 JMP0600 - JMP0699........................................................................................................................................................ 866
    3.3.7 JMP0700 - JMP0799........................................................................................................................................................ 870
    3.3.8 JMP0800 - JMP0899........................................................................................................................................................ 875
    3.3.9 JMP0900 - JMP0999........................................................................................................................................................ 879

Chapter 4 COBOL Error Report Messages....................................................................................................................................................... 884
  4.1 Message Format.............................................................................................................................................................................. 884
  4.2 Message Explanation Format.......................................................................................................................................................... 884
  4.3 Message Details.............................................................................................................................................................................. 885

Appendix A System Error Codes................................................................................................................................................................. 890

Appendix B SCODE Type Error Codes....................................................................................................................................................... 892

Appendix C COBOL File System Error Codes............................................................................................................................................... 894

Appendix D Notes..................................................................................................................................................................................... 898
  D.1 Virtual Memory Shortages........................................................................................................................................................... 898
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.

**Note**
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 a follows.

- If compile option NUMBER is enabled:
  
  ```
  [COPY-qualification-value-]user-line-number
  ```

- If compile option NONUMBER 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**

<table>
<thead>
<tr>
<th>Severity Code</th>
<th>Level</th>
<th>Meaning</th>
<th>Return Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I (INFORMATION)</td>
<td>Informational message</td>
<td>Information that may be helpful to you. An executable program will be generated.</td>
<td>0</td>
</tr>
<tr>
<td>W (WARNING)</td>
<td>Warning error</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Severity Code</td>
<td>Level</td>
<td>Meaning</td>
<td>Return Code</td>
</tr>
<tr>
<td>---------------</td>
<td>------------------------</td>
<td>--------------------------------------------------------------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>E (ERROR)</td>
<td>Recoverable error</td>
<td>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.</td>
<td>1</td>
</tr>
<tr>
<td>S (SERIOUS)</td>
<td>Serious error</td>
<td>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.</td>
<td>2</td>
</tr>
<tr>
<td>U (UNRECOVERABLE)</td>
<td>Unrecoverable error</td>
<td>An error has been encountered that prevents the compiler from proceeding any further. Compilation is terminated. An executable program will not be generated.</td>
<td>3</td>
</tr>
</tbody>
</table>

2.2 Message Details

Messages are listed in numeric order.

2.2.1 JMN00000 - JMN09999

<table>
<thead>
<tr>
<th>JMN00007I-U</th>
<th>The source program file cannot be opened. Compilation terminated.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explanation</td>
<td>Recompile after resolving the problems causing the errors when &quot;System error '$s1' occurred on '$s2'.&quot; is displayed in addition to this message.</td>
</tr>
</tbody>
</table>

| 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 character '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

JMN00241-E

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

Parameter Explanation

@1@ : compiler option name

JMN00251-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-STOREAGE SECTION.
000007 PROCEDURE DIVISION.
000008 P-START.
000009 STOP RUN.

JMN00251-E The format of a subparameter in compile option 'INITVALUE' is invalid. Compile option 'INITVALUE' ignored.

JMN00261-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-STOREAGE SECTION.
000007 PROCEDURE DIVISION.
000008 P-START.
000009 STOP RUN.

JMN00261-E The length of a subparameter in compile option 'LINECOUNT' is invalid. Compile option 'LINECOUNT' ignored.

JMN00271-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

JMN00311-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.

JMN00311-W Since compile option 'LANGLVL(68)' is specified, 'NOCONF' is assumed.

JMN00321-I

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

Parameter Explanation
@1@ : compiler option name

JMN00331-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: JMN00331-W Compile option 'CONF(OBS)' can only be specified in a program definition. Compile option CONF is assumed.

JMN00341-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.
C0037.cob: 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
The compiler option cannot be determined from the '@1@' specified. Compiler option '@1@' is ignored.

Parameter Explanation
@1@ : compiler option name

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

Parameter Explanation
@1@ : compiler option name

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.)

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

Parameter Explanation
@1@ : compiler option name

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

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

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

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

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

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
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

**JMN0998I-U**

There was a failure in the initialization of the character code conversion processing. Please verify that the NetCOBOL Development-Execution environment is correctly installed.

### 2.2.2 JMN1000 - JMN1999
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-VERSECTION.
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-VERSECTION.
000005  01 陲涖 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. '陲' 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-VERSECTION.
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 the 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- 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-' 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 ABC 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.
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 540000000000000.0E-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 ([Win32])

The PICTURE character string has exceeded the 30 character limit. The first 30 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 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX.
000006 END PROGRAM C1018.

C1018.cob 5: JMN1018I-S The PICTURE character string has exceeded the 30 character limit. The first 30 characters are used as the PICTURE character string.

JMN1018I-S ([Win64])

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 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX.
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 "ABCDEFGHIJ".
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'.

- 22 -
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 1234567890.
000005- 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.
```

- 25 -
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
[C1].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 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

<table>
<thead>
<tr>
<th>C1076.cob</th>
</tr>
</thead>
<tbody>
<tr>
<td>000001 IDENTIFICATION DIVISION.</td>
</tr>
<tr>
<td>000002 PROGRAM-ID. C1076.</td>
</tr>
<tr>
<td>000003 DATA DIVISION.</td>
</tr>
<tr>
<td>000004 WORKING- STORAGE SECTION.</td>
</tr>
<tr>
<td>000005 COPY CBLCPY REPLACING A BY B</td>
</tr>
<tr>
<td>000006 END PROGRAM C1076.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>C1080.cob</th>
</tr>
</thead>
<tbody>
<tr>
<td>000001 IDENTIFICATION DIVISION.</td>
</tr>
<tr>
<td>000002 PROGRAM-ID. C1080.</td>
</tr>
<tr>
<td>000003 DATA DIVISION.</td>
</tr>
<tr>
<td>000004 WORKING- STORAGE SECTION.</td>
</tr>
<tr>
<td>000005 COPY C1080C REPLACING ==,== BY ==:==.</td>
</tr>
<tr>
<td>[C1080C.cbl]</td>
</tr>
<tr>
<td>000001 01 WK-DATA PIC X.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>C1081.cob</th>
</tr>
</thead>
<tbody>
<tr>
<td>000001 IDENTIFICATION DIVISION.</td>
</tr>
<tr>
<td>000002 PROGRAM-ID. C1081.</td>
</tr>
<tr>
<td>000003 DATA DIVISION.</td>
</tr>
<tr>
<td>000004 WORKING- STORAGE SECTION.</td>
</tr>
<tr>
<td>000005 REPLACE ==A== BY ==B==.</td>
</tr>
<tr>
<td>000006 01 A PIC X.</td>
</tr>
<tr>
<td>000007 REPLACE OFF.A</td>
</tr>
<tr>
<td>000008 END PROGRAM C1081.</td>
</tr>
</tbody>
</table>

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 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 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.
```

C103.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 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.

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.
000011 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

```cob
[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

```cob
[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

```cob
[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-NAME.
000006 SYMBOLIC CONSTANT
NUM1 IS 1234.
IDENTIFICATION DIVISION.
PROGRAM-ID. P1.
ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
END PROGRAM P1.
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C1114.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
CONFIGURATION SECTION.
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C1115.
ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
INPUT-OUTPUT SECTION.
INPUT-OUTPUT SECTION.
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C1116.
ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
SPECIAL-NAMES.
SPECIAL-NAMES.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
FILE-CONTROL.
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

```cob
[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

```cob
[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

```cob
[C1119.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1119.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
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

```cob
[C1121.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1121.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
```
FILE-CONTROL.
SELECT IN-F ASSIGN TO SYS000.
DATA DIVISION.
FILE SECTION.
FD IN-F REPORT RP-F.
REPORT SECTION.
RD RP-F PAGE LIMIT IS CON1.
01 RP1 TYPE RH.
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C1123.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 DATA1 PIC X(5). END
PROCEDURE DIVISION.
MOVE "ABC" TO DATA1
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 C ABC 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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C1125.
DATA DIVISION.
WORKING-RELEASE SECTION.
01 DATA1 PIC 9(4) PIC X(5).
01 DATA2 PIC 9(4) VALUE 1234 VALUE 5678.
END PROGRAM C1125.

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

The syntax of the `SIGN` clause is invalid.

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.
```

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.
```

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

```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-STOREAGE SECTION can only be specified for an external program that does not contain the INITIAL attribute.

Example

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

P1130.cob 6: JMN1130I-S The LOCAL-STOREAGE 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

```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

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

- 40 -
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.
```

C1132.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.
```

C1132.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.
```

- 41 -
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

```plaintext
[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

```plaintext
[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

```plaintext
[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

```plaintext
[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

```cob
[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

```cob
[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

```cob
[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.
```

- 44 -
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 INFMG 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 RECN01 PIC S9(8) BINARY.
000015 FD FILE2.
000016 01 REC2.
000017 02 RECN02 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 INFMNG 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 INFMNG 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".
**JMN1163I-S**

The syntax of the APPLY clause is invalid.

**Example**

```plaintext
[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**

```plaintext
[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.
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.

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.

C1167.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.

**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 DEPENDING ON LENGCNT.
000007 01 LENGCNT PIC S9(4) BINARY.
000008 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 DEPENDING ON LENGCNT.
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
00010 .
000011 DATA DIVISION.
000012 FILE SECTION.
000013 FD MSGFILE.
000014 01 INFDAT.
000015 02 INFNUM PIC S9(8) BINARY.
000016 02 INFMGR PIC X(5D).
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"
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
PROGRAM SEQUENCE.
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.
### JMN1215I-S

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

#### Example

```cob
[C1215.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1215.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
000006 SWITCH-0 IS ST0
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

```cob
[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

```cob
[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

```cob
[C1218.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1218.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-NAMES.
```

- 56 -
ALPHABET ABC IS "ABC" THRU "XYZ".

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.

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

Example

```cob
[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.

The syntax of the CLASS clause is invalid.

Example

```cob
[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.

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

```cob
[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.

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

```cob
[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

```cob
[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

```cob
[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 RNM1 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. "ABCDEFGH".
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.
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 HUG01 IS CODE-1
000007    SYMBOLIC CHARACTERS A IS 12 IN HUG01.
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.
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.

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.

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-ADDRESS 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.

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 DATA DIVISION.
000004 WORKING-STORAGE 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.
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 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.

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. OC1 PROGRAM COLLATING SEQUENCE IS HUGO1.
000006 SPECIAL-GLOBALS.
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
000011 ALTERNATE RECORD KEY IS KEY3
000012 ALTERNATE RECORD KEY IS KEY4
000013 ALTERNATE RECORD KEY IS KEY5
000014 ALTERNATE RECORD KEY IS KEY6
000015 ALTERNATE RECORD KEY IS KEY7
000016 ALTERNATE RECORD KEY IS KEY8
000017 ALTERNATE RECORD KEY IS KEY9
000018 ALTERNATE RECORD KEY IS KEY10
000019 ALTERNATE RECORD KEY IS KEY11
000020 ALTERNATE RECORD KEY IS KEY12
000021 ALTERNATE RECORD KEY IS KEY13
000022 ALTERNATE RECORD KEY IS KEY14
000023 ALTERNATE RECORD KEY IS KEY15
000024 ALTERNATE RECORD KEY IS KEY16
000025 ALTERNATE RECORD KEY IS KEY17
000026 ALTERNATE RECORD KEY IS KEY18
000027 ALTERNATE RECORD KEY IS KEY19
000028 ALTERNATE RECORD KEY IS KEY20
000029 ALTERNATE RECORD KEY IS KEY21
000030 ALTERNATE RECORD KEY IS KEY22
000031 ALTERNATE RECORD KEY IS KEY23
000032 ALTERNATE RECORD KEY IS KEY24
000033 ALTERNATE RECORD KEY IS KEY25
000034 ALTERNATE RECORD KEY IS KEY26
000035 ALTERNATE RECORD KEY IS KEY27
000036 ALTERNATE RECORD KEY IS KEY28
000037 ALTERNATE RECORD KEY IS KEY29
000038 ALTERNATE RECORD KEY IS KEY30
000039 ALTERNATE RECORD KEY IS KEY31
000040 ALTERNATE RECORD KEY IS KEY32
000041 ALTERNATE RECORD KEY IS KEY33
000042 ALTERNATE RECORD KEY IS KEY34
000043 ALTERNATE RECORD KEY IS KEY35
000044 ALTERNATE RECORD KEY IS KEY36
000045 ALTERNATE RECORD KEY IS KEY37
000046 ALTERNATE RECORD KEY IS KEY38
000047 ALTERNATE RECORD KEY IS KEY39
000048 ALTERNATE RECORD KEY IS KEY40
000049 ALTERNATE RECORD KEY IS KEY41
000050 ALTERNATE RECORD KEY IS KEY42
000051 ALTERNATE RECORD KEY IS KEY43
000052 ALTERNATE RECORD KEY IS KEY44
000053 ALTERNATE RECORD KEY IS KEY45
000054 ALTERNATE RECORD KEY IS KEY46
000055 ALTERNATE RECORD KEY IS KEY47
000056 ALTERNATE RECORD KEY IS KEY48
000057 ALTERNATE RECORD KEY IS KEY49
000058 ALTERNATE RECORD KEY IS KEY50
000059 ALTERNATE RECORD KEY IS KEY51
000060 ALTERNATE RECORD KEY IS KEY52
000061 ALTERNATE RECORD KEY IS KEY53
000062 ALTERNATE RECORD KEY IS KEY54
000063 ALTERNATE RECORD KEY IS KEY55
000064 ALTERNATE RECORD KEY IS KEY56
000065 ALTERNATE RECORD KEY IS KEY57
000066 ALTERNATE RECORD KEY IS KEY58
000067 ALTERNATE RECORD KEY IS KEY59
000068 ALTERNATE RECORD KEY IS KEY60
000069 ALTERNATE RECORD KEY IS KEY61
000070 ALTERNATE RECORD KEY IS KEY62
000071 ALTERNATE RECORD KEY IS KEY63
000072 ALTERNATE RECORD KEY IS KEY64
000073 ALTERNATE RECORD KEY IS KEY65
000074 ALTERNATE RECORD KEY IS KEY66
000075 ALTERNATE RECORD KEY IS KEY67
000076 ALTERNATE RECORD KEY IS KEY68
000077 ALTERNATE RECORD KEY IS KEY69
000078 ALTERNATE RECORD KEY IS KEY70
000079 ALTERNATE RECORD KEY IS KEY71
000080 ALTERNATE RECORD KEY IS KEY72
000081 ALTERNATE RECORD KEY IS KEY73
000082 ALTERNATE RECORD KEY IS KEY74
000083 ALTERNATE RECORD KEY IS KEY75
000084 ALTERNATE RECORD KEY IS KEY76
000085 ALTERNATE RECORD KEY IS KEY77
000086 ALTERNATE RECORD KEY IS KEY78
000087 ALTERNATE RECORD KEY IS KEY79
000088 ALTERNATE RECORD KEY IS KEY80
000089 ALTERNATE RECORD KEY IS KEY81
000090 ALTERNATE RECORD KEY IS KEY82
000091 ALTERNATE RECORD KEY IS KEY83
000092 ALTERNATE RECORD KEY IS KEY84
000093 ALTERNATE RECORD KEY IS KEY85
000094 ALTERNATE RECORD KEY IS KEY86
000095 ALTERNATE RECORD KEY IS KEY87
000096 ALTERNATE RECORD KEY IS KEY88
000097 ALTERNATE RECORD KEY IS KEY89
000098 ALTERNATE RECORD KEY IS KEY90
000099 ALTERNATE RECORD KEY IS KEY91
000100 ALTERNATE RECORD KEY IS KEY92
000101 ALTERNATE RECORD KEY IS KEY93
000102 ALTERNATE RECORD KEY IS KEY94
000103 ALTERNATE RECORD KEY IS KEY95
000104 ALTERNATE RECORD KEY IS KEY96
000105 ALTERNATE RECORD KEY IS KEY97
000106 ALTERNATE RECORD KEY IS KEY98
000107 ALTERNATE RECORD KEY IS KEY99
000108 ALTERNATE RECORD KEY IS KEY100
000109 ALTERNATE RECORD KEY IS KEY101
000110 ALTERNATE RECORD KEY IS KEY102
000111 ALTERNATE RECORD KEY IS KEY103
000112 ALTERNATE RECORD KEY IS KEY104
000113 ALTERNATE RECORD KEY IS KEY105
000114 ALTERNATE RECORD KEY IS KEY106
000115 ALTERNATE RECORD KEY IS KEY107
000116 ALTERNATE RECORD KEY IS KEY108
000117 ALTERNATE RECORD KEY IS KEY109
000118 ALTERNATE RECORD KEY IS KEY110
000119 ALTERNATE RECORD KEY IS KEY111
000120 ALTERNATE RECORD KEY IS KEY112
000121 ALTERNATE RECORD KEY IS KEY113
000122 ALTERNATE RECORD KEY IS KEY114
000123 ALTERNATE RECORD KEY IS KEY115
000124 ALTERNATE RECORD KEY IS KEY116
000125 ALTERNATE RECORD KEY IS KEY117
000126 ALTERNATE RECORD KEY IS KEY118
000127 ALTERNATE RECORD KEY IS KEY119
000128 ALTERNATE RECORD KEY IS KEY120
000129 ALTERNATE RECORD KEY IS KEY121
000130 ALTERNATE RECORD KEY IS KEY122
000131 ALTERNATE RECORD KEY IS KEY123
000132 ALTERNATE RECORD KEY IS KEY124
000133 ALTERNATE RECORD KEY IS KEY125
000134 ALTERNATE RECORD KEY IS KEY126.

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 DEPENDING ON LENGCNT OF.
000007   01 LENGCNT PIC S9(4) BINARY.
000008   01 AREA1.
000009   02 LENGCNT PIC S9(4) BINARY.
000010 END PROGRAM C1268.
A qualifier must follow the connective word OF or IN. OF or IN is ignored.

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

```cob
[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.
```

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

```cob
[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.
```

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

```cob
[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.
```

EXEC SQL cannot be specified in the CONSTANT SECTION.
The INCLUDE @1@ statement is duplicated.

Parameter Explanation

@1@ : AQLCA

Example

```cob
[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

```cob
[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

```cob
[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.
          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.
          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.
          02 HNUM       PIC S9(4) BINARY.
000008   02 HNAME      PIC X(30).
000009   EXEC SQL END DECLARE SECTION 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.
```

- 71 -
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  SELECT IN-F ASSIGN TO INFILE.
000006  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.
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 INFNAM  PIC S9(8) BINARY.
000140   02 INFSMG  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.
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.
```

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.
```

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.
```
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 SQFKEY
000008   NOMINAL KEY IS SQFNKEY
000009   ACCESS MODE IS DYNAMIC
000010 .
000011 DATA   DIVISION.
000012 FILE   SECTION.
000013 FD  SQFILE1.
000014 01 SQFREC.
000015 02 SQFKEY PIC X.
000016 02 SQFD001 PIC X(256).
000017 02 SQFDAT  PIC X(30).
000018 WORKING-STORAGE SECTION.
000019 01 SQFNKEY  PIC X.
000020 END PROGRAM C1310.
JMN1312I-S

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

Example

```cob
[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 DATA DIVISION.
  000010 FILE SECTION.
  000012 FD IN-F.
  000013 01 IN-R PIC X(80).
000014 END PROGRAM C1312.
```

JMN1313I-S

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

Example

```cob
[C1313.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1313.
  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.
```
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
00010 .
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.

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).
The NOMINAL KEY clause can be specified only for an indexed organization file.

Example

```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.
```

The RELATIVE KEY clause can be specified only for a relative file.

Example

```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.
```

A RELATIVE KEY clause must be specified for a relative file of random or dynamic access mode.

Example

```cob
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1320.
```
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT INFILE ASSIGN TO SYS001
ORGANIZATION IS RELATIVE
ACCESS MODE IS DYNAMIC.
DATA DIVISION.
FILE SECTION.
FD INFILE.
01 INREC.
   02 KEY1 PIC X(80).
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C1321.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT IN-F ASSIGN SYS000-DA-S1-I-NAME
ACCESS MODE IS RANDOM
RECORD KEY IS IN-R
TRACK-AREA IS 32
.
DATA DIVISION.
FILE SECTION.
FD IN-F.
01 IN-R PIC X(80).
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C1322.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT INFILE ASSIGN TO SYS001
ORGANIZATION IS SEQUENTIAL
RECORD KEY IS KEY1.
DATA DIVISION.
FILE SECTION.
FD INFILE.
01 INREC.
   02 KEY1 PIC X(80).
END PROGRAM C1322.

C1322.cob 8: JMN1322I-S The RECORD KEY clause can be specified only for an indexed file.
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.

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.

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.
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     SELECT IN-F ASSIGN SYS000000.
000007 DATA            DIVISION.
000008 01  IN-R  PIC X(80).
000009 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 LANGVL(74) option, lower-case 'a' through 'z' can be specified in the CURRENCY SIGN clause as a currency symbol. For the LANGVL(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),LANGVL(85)
000002 IDENTIFICATION DIVISION.
```
C1338.cob 7: JMN1338I-I (CONF) For the LANG_LVL(74) option, lower-case 'a' through 'z' can be specified in the CURRENCY SIGN clause as a currency symbol. For the LANG_LVL(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 LANG_LVL(68) option, the editing character '/' is ignored.

Example

[C1339.cob]
000001 @OPTIONS CONF(68),LANG_LVL(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 LANG_LVL(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),LANG_LVL(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-CLASS. 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-CLASS.
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**

```cob
[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**

```cob
[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**

```cob
[C1359.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1359.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 SPECIAL-VALUES.
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
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.
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.
```

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.
```

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

```cob
[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

```cob
[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

```cob
[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.
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

```cob
[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

```cob
[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

```cob
[C1401.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1401.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
```
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 QS9.
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.
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 PV9.
000010 01 E PIC +P9.
000011 01 F PIC P99.
000012 PROCEDURE DIVISION.
000013     STOP RUN.
```

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.

**JMN1411I-S**

**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.
```

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 +Y+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

```java
[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

```java
[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.
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

```java
[C1418.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C1418.
000003 ENVIRONMENT DIVISION.
```
000004 DATA DIVISION.
000005 WORKING-STOREAGE 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 's', 't' 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-STOREAGE SECTION.
000006 01  A PIC 9.
000007 01  B PIC \+9.
000008 01  C PIC B\9.
000009 01  D PIC V\9.
000010 01  E PIC 9+P.
000011 01  F PIC 9+B.
000012 01  G PIC ++9+.
000013 01  H PIC \9\.
000014 01  I PIC +9+.
000015 PROCEDURE DIVISION.
000016 STOP RUN.

C1421.cob 6: JMN1421I-S A fixed insertion character '+' or '-' 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 '-' 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 '-' 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 '-' 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 '-' 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 '-' 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 '-' 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 '-' 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 '-' 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+22.
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.
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 (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).
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**

```cobol
[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**

```cobol
[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**

```cobol
[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.
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.

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.

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.

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.

**JMN14721I-S**

*An 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 AQL BEGIN DECLARE SECTION END-EXEC.
000007  EXEC SQL END DECLARE SECTION END-EXEC.
000008  EXEC AQL END DECLARE SECTION END-EXEC.
```

C1472.cob 7: JMN14721I-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: JMN14721I-S A SQL statement and an AQL statement must not be written in a separately compiled program. The AQL statement is ignored.

**JMN14751I-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  PIC X.
000007  あああああ
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 "C1476C1476C1476C1476C1476C1476C1476C1476C1476C1476C1476C1476C1476".
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.

- 107 -


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.

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 "AAAAAAAAAABBBBBBBBBCCCCCCCCCCDDDDDDDDDDEEEEEEEEEE"
000008 & "FFFFFFFFFFFFGGGGGGGGGGHHHHHHHHHHIIIIIIIIIIJJJJJJJJJJ"
000009 & "KKKKKKKKKKLLLLLLLLLLMMMMMMMMMMNNNNNNNNNNOOOOOOOOOO"
000010 & "PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPQRRRRRRRRRRRRRRRRRRRRRRR".
```

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.

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.
```
WORKING-STORAGE SECTION.
01 FFFFFFFFFF PIC X(10) VALUE IS "FFFFFFFFFF".
01 FFFFFFFFFF PIC X(10) VALUE IS "FFFFFFFFFF".
PROCEDURE DIVISION.
01 FFFFFFFFFF PIC X(10) VALUE IS "FFFFFFFFFF".
01 FFFFFFFFFF PIC X(10) VALUE IS "FFFFFFFFFF".

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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C1481.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT MSGFILE ASSIGN TO I-INFILE
ACCESS MODE IS RANDOM
RECORD KEY IS INFNUM
NOMINAL KEY IS WINF
TRACK-AREA IS 256 CHARACTERS
.
FILE SECTION.
FD MSGFILE.
FD INFDAT.
01 INFNUM PIC S9(8) BINARY.
02 INFMSG PIC X(50).
 WORKING-STORAGE SECTION.
01 WINF PIC S9(8) BINARY.
01 SQLSTATE PIC X(5).
02 INFNUM PIC S9(8) BINARY.
03 INFMSG PIC X(50).
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C1482.
DATA DIVISION.
WORKING-STORAGE SECTION.
EXEC SQL BEGIN DECLARE SECTION END-EXEC.
01 SQLSTATE PIC X(5).
01 AAAAAAAAAAAAAAAAAAAAAAAAAAAA.
02 BBBBBBBBBBBBBBBBBBBBBBBBBBBBBB.
03 CCCCCCCCCCCCCCCCCCCCCCCCCCC.
04 DDDDDDDDDDDDDDDDDDDDDDDDDDDDD.
05 EEEEEEEEEEEEEEEEEEEEEEEEEEEEE.
06 FFFFFFFFFFFFFFFFFFFFFFFFFFFFFF.

- 109 -
### EXEC SQL END DECLARE SECTION END-EXEC.

```cobol
PROCEDURE DIVISION.
EXEC SQL
   DECLARE CUR1 CURSOR FOR
      SELECT S1.TABLE
END-EXEC.
EXEC SQL
   FETCH CUR1 INTO
      :AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA.
      BBBBBBBBBBBBBBBBBBBBBBBBBBBBBB.
      CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC.
      DDDDDDDDDDDDDDDDDDDDDDDDDDDDDD.
      EEEEEEEEEEEEEEEEEEEEEEEEEEEEE.
      FFFFFFFFFFFFFFFFFFFFFFFFFFFFFF.
      GGGGGGGGGGGGGGGGGGGGGGGGGGGG.
      HHHHHHHHHHHHHHHHHHHHHHHHHHHH.
      IIIIIIIIIIIIIIIIIIIIIIIIIIIIII
END-EXEC.
```

C1482.cob 23: JMN1482I-I 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**

```cobol
[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**

```cobol
[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
```

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]
000001 @OPTIONS ENCODE(UTF8)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P1490.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 PROCEDURE DIVISION.
000007 DISPLAY NC"A" & NX'3044'
000008 .
000009 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.
**JMN15001-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 INFIL.
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: JMN15001-S In the TYPE clause, HEADING or FOOTING must be specified immediately after REPORT, PAGE, or CONTROL.

**JMN15011-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 INFIL.
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: JMN15011-S 0 cannot be specified as the integer in the COLUMN NUMBER clause. 1 is assumed.

**JMN15021-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 INFIL.
000007 DATA        DIVISION.
000008 FILE        SECTION.
000009 FD IN-F REPORT RPT-F.
```
JMN15031-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: JMN15031-S Data-name or FINAL must be specified for RESET in the SUM clause. RESET is ignored.

JMN15041-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.
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.
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.
C1511.cob 11: JMN1511-S In the PAGE clause, DETAIL must be specified immediately after FIRST or LAST. The PAGE clause description after FIRST or LAST is ignored.

JMN1512-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: JMN1512-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.

JMN1513-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.
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 NEXT GROUP 1000.
000013 01 FOOT01 TYPE IS RF.
000014 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.
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**

```cob
[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**

```cob
[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 NEXT GROUP IS NEXT GROUP.
000014 01 FOOT01 TYPE IS RF.
000015 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 TYPE RH
000014 LINE 2
000015 COLUMN 3
000016 PIC S9(4) SIGN IS LEADING
000017 VALUE 10.
000018 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.
```
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 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.
```

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.
```
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 REPORT          SECTION.
000010 RD  RPT-F EXTERNAL.
000011 01  HEAD01 TYPE IS RH.
000012 01  FOOT01 TYPE IS RF.
000013 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 REPORT          SECTION.
000011 WORKING- storage SECTION.
000012 RD  RPT-F EXTERNAL.
000013 01  HEAD01 TYPE IS RH.
**JMN1529I-S**

**FILLER cannot be specified in a report group description entry.**

**Example**

```cob
[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**

```cob
[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 FILLER TYPE IS RH.
000014 01 FOOT01 TYPE IS RF.
000015 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 HEADD1 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 FOOTD1 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.
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

```assembly
[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

```assembly
[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
```
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 B: 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.
```
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@ : ANSI85

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 ANSI85 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 ASSIGN TO "ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZ".
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 'ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZ' 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.
000006 FILE-CONTROL.
000007 SELECT IN-F ASSIGN TO INFILE.
000008 1-O-CONTROL.
000009 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 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000005 EXEC SQL
000006 INCLUDE SQLDA HAVING 5 COLUMNS
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.
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 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                   DEPENDING ON 1.
000012 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 KYOKASHOTAI.
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 DATA           DIVISION.
000009 FILE          SECTION.
000010 FD  AFILE.
000011 01  A-REC     PIC X(10).
000012 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.
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(8) TO AA
000009 FULL
000010 JUSTIFIED.
000011 END PROGRAM C1583.

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 SCREEN SECTION.
000008 01 A PIC X(2) FROM AA VALUE "AAA".
000009 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(B) 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.
In the SCREEN SECTION, the PICTURE clause must be specified in the item which has a FROM, TO or USING phrase.

Example

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. C1592.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
   01 AA PIC X(2).
SCREEN SECTION.
   01 BBB AUTO FROM AA BELL.
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.

@2@ must be specified in a '@1@' clause.

Parameter Explanation

@1@ : LINE NUMBER, COLUMN NUMBER

@2@ : identifier or integer literal

Example

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. C1593.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
   01 ZZZ PIC X(8).
SCREEN SECTION.
   01 AAA PIC X(80) LINE FROM ZZZ.
END PROGRAM C1593.
```

'C1593.cob' 8: JMN1593I-S 'identifier or integer literal' must be specified in a 'LINE NUMBER' clause.

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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. C1594.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
   01 ZZZ PIC X(8).
```
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.
```
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. "1998-2007"
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"B35483938376838Z"
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 are the most likely causes:

- 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.

- Charset Manager is not installed or the environment is not set properly. Charset Manager requires the following conditions in the compiler environment:
  
  - Includes a screen form descriptor, and
  - The generate codes in the screen form descriptor are not SJIS, and
  - The source file code system is UTF-8.

  In addition, please verify that environment variable PATH is set correctly.

  More information about the NetCOBOL and Charset Manager can be found in the "NetCOBOL Software Release Guide".

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 DEFINITION

[Winx64]

@1@ : TYPE/ TYPEDEF/ GLOBAL
@2@ : BASED-STORAGE SECTION, FILE SECTION, WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION, CONSTANT SECTION, LINKAGE SECTION and PROGRAM DEFINITION

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
ORGANIZATION LINE SEQUENTIAL.
DATA DIVISION.
FILE SECTION.
FD IN-FILE.
01 IN-REC.
   02 I-CODE PIC X.
END OBJECT.
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]
IDENTIFICATION DIVISION.
CLASS-ID. C1689.
ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
SUBSCHEMA-NAME. "CHKICSBN".
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]
IDENTIFICATION DIVISION.
CLASS-ID. C1690.
ENVIRONMENT DIVISION.
FACTORY.
DATA DIVISION.
WORKING-STORAGE SECTION.
EXEC DCSQL BEGIN DECLARE SECTION END-EXEC.
SQLSTATE PIC X(5).
EXEC DCSQL END DECLARE SECTION END-EXEC.
PROCEDURE DIVISION.
END FACTORY.
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.
```
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.

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.

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 OBJECT.
000004 PROCEDURE DIVISION.
000005 METHOD-ID. M1699.
000006 DATA DIVISION.
000007 IDENTIFICATION DIVISION.
000008 ENVIRONMENT DIVISION.
000009 OBJECT.
000010 PROCEDURE DIVISION.
000011 END METHOD M1699.
000012 TYPEDEF.
000013 01 TYPEDEF.
000014 END CLASS C1699.

C1699.cob 8: JMN1699I-S The @1@ clause cannot be specified for a filler item. The @1@ clause is ignored.
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

```cob
[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

```cob
[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

```cob
[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

```cob
[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

```cob
[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

```cob
[M1715.cob]
000001 IDENTIFICATION DIVISION.
000002 METHOD-ID.     M1715 PROTOTYPE.
000003 PROCEDURE      DIVISION.
000004 END METHOD     M1715.
```
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.
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.

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.

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.

Explanation

The definition of the end header is not suitable for the IDENTIFICATION DIVISION.
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.

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.

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.
```

C1745.cob 10: JMN1745I-S No corresponding end header is specified. The compiler skips to the next element.
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 is 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.
```
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.
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]
00001 IDENTIFICATION DIVISION.
00002 CLASS-ID. C1756A.
00003 FACTORY.
00004 PROCEDURE DIVISION.
00005 METHOD-ID. M1.
00006 END METHOD M1.
00007 END FACTORY.
00008 END CLASS C1756A.
00009**

[C1756B.cob]
00001 IDENTIFICATION DIVISION.
00002 CLASS-ID. C1756B.
00003 FACTORY.
00004 PROCEDURE DIVISION.
00005 METHOD-ID. M1.
00006 DATA DIVISION.
00007 LINKAGE SECTION.
00008 01 P1 PIC X(4).
00009 PROCEDURE DIVISION USING P1.
00010 END METHOD M1.
00011 END FACTORY.
00012 END CLASS C1756B.
00013**

[C1756C.cob]
00001 IDENTIFICATION DIVISION.
00002 CLASS-ID. C1756C INHERITS C1756A C1756B.
00003 ENVIRONMENT DIVISION.
00004 CONFIGURATION SECTION.
00005 REPOSITORY.
00006  CLASS C1756A
00007  CLASS C1756B.
00008 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

[CBASE.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

```cob
[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

```cob
[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

```cob
[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.
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.
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 9: JMN1772I-S The PROPERTY clause cannot be specified if the data name begins with a '@1@': The PROPERTY clause is ignored.
C1772.cob: 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: 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: 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.
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.

éné The nonnumeric literal in the CLASS clause cannot contain national characters. It is assumed to be a space.

'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.

'DEFINITION' and 'REFERENCE' cannot specify the EXTERNAL clause when compiler option 'THREAD(MULTI)' and 'NOSHREXT' are being used. 'DEFINITION' or 'REFERENCE' is ignored.

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.
```
WORKING-STORAGE SECTION.
01 A PIC 9(4) VALUE H'FFF'.
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.
Explanation

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

**JMN18471-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.*

**JMN18521-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: **JMN18521-S** In the ENCODING clause, the alphabet name for the encoding format was not defined. The ENCODING clause is disabled.

**JMN18531-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: **JMN18531-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.

[C1855CP.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.
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.

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**

```cob
[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**

```cob
[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
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
```
The report description entry requires a report group description. The report description entry is ignored.

Example

```
[P2000.cob]
000001 IDENTIFICATION DIVISION.
000003 ENVIRONMENT    DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA           DIVISION.
000009 FILE            SECTION.
000010 FD REPFILE REPORT REP1.
000011 REPORT          SECTION.
000012 RD REP1.
000013 PROCEDURE      DIVISION.
000014 END PROGRAM    P2000.
```

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.

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.
000003 ENVIRONMENT    DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
```
SELECT SQFILE1 ASSIGN TO SYS001
ORGANIZATION IS SEQUENTIAL
FILE STATUS IS WFS1.
I-O-CONTROL.
DATA DIVISION.
FILE SECTION.
FD SQFILE1.
WORKING-STORAGE SECTION.
01 WFS1 PIC X(2).
PROCEDURE DIVISION.


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]
IDENTIFICATION DIVISION.
PROGRAM-ID. P2002.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT REPFILE ASSIGN TO SYS001.
I-O-CONTROL.
DATA DIVISION.
FILE SECTION.
FD REPFILE REPORT REP1.
01 REPREC PIC X(80).
REPORT SECTION.
RD REP1.
01 TYPE DE LINE PLUS 1.
02 COLUMN 1 PIC X(10) VALUE SPACE.
PROCEDURE DIVISION.
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]
IDENTIFICATION DIVISION.
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.
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.
```

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.
      02           PIC X(80).
000009 02 PIC X(80).
000010 WORKING-STORAGE SECTION.
000011 03 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**

```cob
[P2007.cob]
000001 IDENTIFICATION DIVISION.
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-STOREAGE 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**

```cob
[P2008.cob]
000001 IDENTIFICATION DIVISION.
000003 DATA           DIVISION.
000004 WORKING-STOREAGE SECTION.
000005 01 G1 SIGN LEADING.
000006    02 E1        PIC X(1D).
000007    02 E2        PIC 9(1D).
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 contain 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: 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.
```
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-STOREAGE 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-STOREAGE SECTION.
  000006 01 WNUM PIC X(1D) 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.
   02 WE1       PIC X(1).
   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.
```
The JUSTIFIED clause can only be specified for an alphabetic, alphanumeric, or national item.

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 SQFIREC.
000012 02 PIC X(80).
000013 01 REDEFINES SQFIREC.
000014 02 PIC N(40).
000015 PROCEDURE DIVISION.
000016 END PROGRAM P2019.

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.

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(2D).
000008 02.
000009 03 RDA1 REDEFINES DA1
000010 01 PIC N(1D).
000011 PROCEDURE DIVISION.
000012 END PROGRAM P2020.

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 REDEFINE 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 WRELMM 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

```cob
[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

```cob
[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 SQFIREC.
000011   02           PIC X(80) VALUE SPACE.
000012   03           PIC X(2) VALUE SPACE.
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**

```cob
[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**

```cob
[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 2,229 VALUE 12.
```
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.
```
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

```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

```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"11100000".
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 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.
**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, PROCESSING 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 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@ : 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,
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 01 IXF1REC.
000013   02 WRKY1      PIC X(2).
000014   02            PIC X(80).
000015 01 TFS TYPEDEF PIC X(2).
000016 PROCEDURE      DIVISION.
000017 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

```cobol
[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 RLFILE1
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

```cobol
[P2067.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.  P2067.
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 RECORD CONTAINS 0.
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 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.
The CODE-SET clause can only be specified for a sequential file.

Example

```cobol
IDENTIFICATION DIVISION.
PROGRAM-ID.    P2079.
ENVIRONMENT    DIVISION.
CONFIGURATION SECTION.
SPECIAL-NAMES.
     ALPHABET CD1 IS STANDARD-1.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
      SELECT IXFILE1 ASSIGN TO CR-SYS001
      ORGANIZATION IS INDEXED
      RECORD KEY IS RKEY.
DATA DIVISION.
FILE SECTION.
FD IXFILE1
   CODE-SET CD1.
01 IXF1REC.
   02 RKEY      PIC X(8).
   02           PIC X(80).
WORKING-STORAGE SECTION.
PROCEDURE DIVISION.
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.

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

```cobol
IDENTIFICATION DIVISION.
PROGRAM-ID.    P2080.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 GRP CHARACTER TYPE MODE-1.
   02 PIC N(10).
   02 CHARACTER TYPE MODE-2.
   03 PIC N(10).
PROCEDURE DIVISION.
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.

**JMN20811-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) CHARACTER TYPE MODE-1 BY PH1.
000012 02 A2        PIC X(5).
000013    02 N1        PIC N(5) CHARACTER TYPE MODE-1 BY PH2.
000014 PROCEDURE DIVISION.
000015 END PROGRAM P2081.
```

P2081.cob 12: JMN20811-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: JMN20811-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.

**JMN20821-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) CHARACTER TYPE MODE-3 BY PH1.
000013 02 A2        PIC X(5).
000014    02 N1        PIC N(5) CHARACTER TYPE MODE-3 BY PH2.
000015 END PROGRAM P2081.
```
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

```cob
[ 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

```cob
[ 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
```
**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

```cob
[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 SQFILE1.
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

```cob
[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).
```

P2097.cob 8: JMN20971-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(1D).
000007 88 CD1     VALUE SC1.
000008 PROCEDURE    DIVISION.
000009 END PROGRAM    P2101.
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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2102.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 D1 PIC X(10).
88 CD1 VALUE ZERO.
01 D2 PIC A(10).
88 CD2 VALUE ZERO.
PROCEDURE DIVISION.
END PROGRAM P2102.
```

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 are 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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2103.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 D1 PIC 9(10).
88 CD1 VALUE "A".
PROCEDURE DIVISION.
END PROGRAM P2103.
```

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.
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

```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.
```

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

```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.
```

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

```cob
[P2106.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2106.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
00006 01 D1 PIC X.
00007 88 CD1 VALUE "A" THRU "Z".
00008 88 CD2 VALUE "a" THRU "z".
00009 PROCEDURE DIVISION.
00010 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

```cob
[P2107.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2107.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
00006 01 D1 PIC N(1).
00007 88 CD1 VALUE N"あ".
00008 88 CD2 VALUE N"い".
00009 PROCEDURE DIVISION.
00010 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-VALLUE 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

```cob
[P2108.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2108.
```

- 213 -
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
  01 D1          PIC 1(4).
  88 CD1         VALUE B"0000".
  88 CD2         VALUE B"1111".
  88 CD3         VALUE B"0000" THRU B"1111".
PROCEDURE DIVISION.
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

```
IDENTIFICATION DIVISION.
PROGRAM-ID.    P2109.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
  SELECT SQFILE1 ASSIGN TO SYS001.
  SELECT SQFILE2 ASSIGN TO SYS001.
I-O-CONTROL.
  SAME RECORD AREA SQFILE1 SQFILE2.
DATA DIVISION.
FILE SECTION.
  FD SQFILE1.
    01 SQF1REC.
      02           PIC X(80).
  FD SQFILE2 RECORD CONTAINS 0.
    01 SQF2REC.
      02           PIC X(80).
WORKING-STORAGE SECTION.
  01 WFS1        PIC X(2).
PROCEDURE DIVISION.
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

```
IDENTIFICATION DIVISION.
PROGRAM-ID.    P2111.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
  SELECT SQFILE1 ASSIGN TO SYS001.
I-O-CONTROL.
  DATA     SQFILE1.
    01 SQF1REC.
      02           PIC X(80).
    FD SQFILE2 RECORD CONTAINS 0.
      01 SQF2REC.
      02           PIC X(80).
WORKING-STORAGE SECTION.
  01 WFS1        PIC X(2).
PROCEDURE DIVISION.
END PROGRAM P2111.
```

- 214 -
P2111.cob 10: JMN2111-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

```cobol
[2112.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).
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

```cobol
[2113.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).
```
WORKING-STORAGE SECTION.
01 WFS1 PIC X(2).
PROCEDURE DIVISION.
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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2116.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 D1 PIC X(20).
66 R1 RENAMES D1.
PROCEDURE DIVISION.
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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2117.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 GR1.
   02 GR2.
     03 E1 PIC X(5).
   66 R1 RENAMES E1 THRU E1 OF GR2.
PROCEDURE DIVISION.
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.
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    02 E1       PIC X(5).
000010 66 R1 RENAMES OCC1.
000011 PROCEDURE      DIVISION.
000012 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).
```
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

```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

```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 2147483647 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 03 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.
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.
```
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 SQFIREC.
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 OS1V-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 VS-SYS001
000007       RESERVE 256 AREA.
000008 I-O-CONTROL.
000009 DATA           DIVISION.
000010 FILE            SECTION.
000011 FD SQFILE1.
000012 01 SQFIREC.
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.
```

P2143.cob 7: JMN2143I-S The data-name in the PADDING CHARACTER clause must not be defined in the FILE SECTION and REPORT SECTION.
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 SQFIREC.
000014 02 WPD PIC X(1).
000015 02 PIC X(8D).
000016 FD SQFILE2.
000017 01 SQFIREC.
000018 02 PIC X(8D).
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 SQFIREC.
000013 02 PIC X(8D).
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

```cobol
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 SQFREC.
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

```cobol
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 I-O-CONTROL.
000009 DATA             DIVISION.
000010 FILE             SECTION.
000011 FD IXFILE1.
000012 01 IXFREC.
000013   02 WDPND     PIC S9(4).
000014   02 WRKY1.
000015       03         PIC X(1)
000016                OCCURS 10 DEPENDING ON WDPND.
000017 02           PIC X(80).
000018 WORKING-STORAGE SECTION.
000019 PROCEDURE      DIVISION.
000020 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.

JMN2158-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 ISIndexed
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 IXFIREC.
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 "DPB".
000008       PROCESSING CONTROL WPCT.
000009 I-O-CONTROL.
000010 DATA DIVISION.
```

- 226 -
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

```cob
[P2163.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2163.
000003 ENVIRONMENT    DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
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 RLFILE1 PIC X(80).
000013 02 PIC X(80).
000014 01 RLFILE1 PIC X(8).
000015 01 RKEY PIC X(8).
000016 PROCEDURE      DIVISION.
000017 END PROGRAM    P2163.
```

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

```cob
[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.
```
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**

```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 RLFILE1.
000016   02 PIC X(80).
000017 PROCEDURE DIVISION.
000018 END PROGRAM P2165.
```

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**

```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-LOCAL-STORAGE SECTION.
000012 01 RKEY PIC 9(2).
000013 FILE SECTION.
000014 FD RLFILE1.
000015 01 RLFILE1.
000016   02 PIC X(80).
000017 PROCEDURE DIVISION.
000018 END PROGRAM P2165.
```
The data-name in the RELATIVE KEY clause must be defined in the WORKING-STORAGE, LOCAL-STORAGE, LINKAGE, or FILE SECTION.

The data-name in the RELATIVE KEY clause must not be defined in a record of that file.

Example

```
[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.]
```

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.

The data-name in the RELATIVE KEY clause must be an unsigned integer item without the symbol 'P'.

Example

```
[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   02 WORKING-STORAGE SECTION.
  000016 01 RKEY PIC 9(2).
  000017 PROCEDURE DIVISION.
  000018 END PROGRAM P2167.]
```
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).
```

- 230 -
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 SQFIREC.
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.

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.
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.
```

- 232 -
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   02 WRECL     PIC 9(4).
000016 PROCEDURE      DIVISION.
000017 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  01 RECLB PIC X(80).
000015  01 RECLB PIC X(80).
000016 WORKING-STORAGE SECTION.
000017 PROCEDURE DIVISION.
000018 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: JMN21831-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 REPFILE 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 REPFILE
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**

```cob
[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 WPAGE PIC X(80).
000014 PROCEDURE DIVISION.
000015 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**

```cob
[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 DET1 TYPE IS DETAIL.
000018   02 LINE NUMBER PLUS 3.
000019   03 DATA1 COLUMN 10 PIC X(PIC1).
000020 VALUE "DETAIL REPORT GROUP-1".
```

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- 236 -
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.
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.
```
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]
00001 IDENTIFICATION DIVISION.
00002 PROGRAM-ID.    P2194.
00003 ENVIRONMENT    DIVISION.
00004 DATA           DIVISION.
00005 WORKING-STORAGE SECTION.
00006 01 WGRP.
00007   02 WOCC OCCURS 10 ASCENDING KEY IS WKEY1 WKEY2.
00008 03 WKEY2 PIC X(1).
00009 02 WKEY1 PIC X(1).
00010 PROCEDURE      DIVISION.
00011 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]
00001 IDENTIFICATION DIVISION.
00002 PROGRAM-ID.    P2195.
00003 ENVIRONMENT    DIVISION.
00004 DATA           DIVISION.
00005 WORKING-STORAGE SECTION.
00006 01 WGRP.
00007   02 WKEY2 OCCURS 10 ASCENDING KEY IS WKEY1 WKEY2.
00008 03 WKEY1 PIC X(1).
00009 PROCEDURE      DIVISION.
00010 END PROGRAM    P2195.
```
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**

```cob
[2196.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2196.
000003 ENVIRONMENT    DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STOREAGE 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.
```

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 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**

```cob
[2197.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2197.
000003 ENVIRONMENT    DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STOREAGE 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.
```

The data-name 'WKEY1' in the KEY IS phrase must not exceed 256 bytes in length. The data-name is ignored.

**Explanation**

Since the data-name is not the first item of the KEY IS phrase, it cannot used with the OCCURS clause.
Explanation

The data-name used in the KEY IS phrase cannot exceed 256 bytes in length.

JMN22001-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 "ABC".
000007 02 PIC N.
000008 02 PIC X(3).
000009 PROCEDURE DIVISION.
000010 END PROGRAM P2200.
```

P2200.cob 6: JMN22001-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.

JMN22011-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-PROTECTION SECTION.
000006 01 WGRP VALUE B"111100011".
000007 02 PIC N.
000008 02 PIC X(3).
000009 PROCEDURE DIVISION.
000010 END PROGRAM P2201.
```

P2201.cob 6: JMN22011-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.

JMN22021-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.
```
P2202.cob: 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/DESCENDING 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 IXFIREC.
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: 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

```
[02206.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

```
[02207.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 PROCEDURE DIVISION.
000016 WORKING-STORAGE SECTION.
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

[Example COBOL code]

```
IDENTIFICATION DIVISION.
PROGRAM-ID. P2210.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
  01 WGRP.
    02 WOCC1 OCCURS 10.
    03 WOCC2 OCCURS 10.
    04 WOCC3 OCCURS 10.
    05 WOCC4 OCCURS 10.
    06 WOCC5 OCCURS 10.
    07 WOCC6 OCCURS 10.
    08 WOCC7 OCCURS 10.
    09 WOCC8 OCCURS 10.
    10 PIC X.
PROCEDURE DIVISION.
END PROGRAM P2210.
```

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

[Example COBOL code]

```
IDENTIFICATION DIVISION.
PROGRAM-ID. P2212.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
  SELECT RLFILE1 ASSIGN TO SYS001
    ORGANIZATION IS RELATIVE.
DATA DIVISION.
FILE SECTION.
  FD RLFILE1
    LINAGE 66.
  01 RLF1REC.
    02 PIC X(80).
WORKING-STORAGE SECTION.
  01 WFS1 PIC X(2).
PROCEDURE DIVISION.
END PROGRAM P2212.
```

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 file.
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.
```
**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 I-O-CONTROL.
000008   SELECT SQFILE2 ASSIGN TO SYS002.
000009 I-O-CONTROL.
000009 SAME RECORD AREA SQFILE1 SQFILE2.
0000010 DATA DIVISION.
000010 FILE SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC.
000013   02          PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 FD SQFILE2 IS GLOBAL.
000016 01 SQF2REC.
000017   02          PIC X(80).
000018 WORKING-STORAGE SECTION.
```

**P2221.cob 11: 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.
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

```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

```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

```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.
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

```
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.
```

The PRINTING POSITION clause can only be specified for an item with a CHARACTER TYPE clause or its subordinate item.

Example

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2228.
000003 ENVIRONMENT     DIVISION.
000004 DATA           DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WGRP.
000007   02 WNC.
```

- 250 -
JMN2229I-S

The PRINTING POSITION clause cannot be specified for an item with an OCCURS clause or its subordinate item.

Example

```
[02299.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.IOB 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

```
[022231.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.IOB 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

```
[02232.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2232.
000003 ENVIRONMENT    DIVISION.
```
**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-STOREAGE 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-STOREAGE SECTION.
000006 01 GR1.
000007  02 OCC1 OCCURS 10 ASCENDING KEY IS E2.
000008     03 E1      PIC X.
```

P2234.cob 7: JMN2234I-S Data-name 'E2' of the KEY IS clause is undefined. The data-name is ignored.
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.
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

```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 SQFIREC.
000015   02 PIC X(79).
000016 WORKING-STORAGE SECTION.
000017 01 WFS1PIC X(2).
000018 PROCEDURE      DIVISION.
000019 END PROGRAM    P2239.
```

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

```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 SQFIREC.
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 01 SQF1REC.
000012   02 PIC X(80).
000013 WORKING-STORAGE SECTION.

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.

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 WDPEND PIC S9(3).
000008   02 WOCC OCCURS 10 INDEXED BY IX1
000009   PIC 1(1) BIT.
000010 PROCEDURE DIVISION.
000011 END PROGRAM P2252.

JMN2269I-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

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.

JMN2255I-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

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.
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 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    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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2271.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
  01 WGRP.
    02 WOCC OCCURS 10 DEPENDING ON WTYP1.
    03         PIC X.
  01 WTYP1 TYPEDEF PIC X.
PROCEDURE DIVISION.
END PROGRAM P2271.
```

P2271.cob 7: JMN2271I-S 'WTYP1' 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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2273.
ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
SPECIAL-NAMES.
  ALPHABET CD1 IS STANDARD-1.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
  SELECT SQFILE1 ASSIGN TO SYS001
       ORGANIZATION IS SEQUENTIAL.
DATA DIVISION.
FILE SECTION.
  FD SQFILE1
       CODE-SET CD1.
  01 SQF1REC.
    02           PIC S9(4).
    02           PIC X(80).
PROCEDURE DIVISION.
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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2274.
ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
```

- 258 -
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 DATA           DIVISION.
000009 FILE            SECTION.
000010 FD SQFILE1 IS EXTERNAL.
000011 01 SQF1REC.
000012   02           PIC S9(4) BINARY.
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 DATA DIVISION.
000010 FILE SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC.
000013 02 PIC X(80).
000014 FD SQFILE2.
000015 01 SQF2REC.
000016 02 PIC X(80).
000017 WORKING-STORAGE SECTION.
000018 01 WSVAR PIC X(80).
000019 PROCEDURE DIVISION.
000020 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

```cob
[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 SQFIREC.
000013    02 PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE DIVISION.
000016     PERFORM WITH NO LIMIT
000017       WRITE SQFIREC
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

```cob
[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 SQFIREC.
```
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.
```
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

```cob
[ 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

```cob
[ 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
000010       RECORD VARYING IN SIZE
000011   DEPENDING ON LRECL.
000012 01 SQFREC.
000013   02            PIC X(8).
000014   02            PIC N(10)
000015                 CHARACTER TYPE MODE-1.
000016   02            PIC X(60) .
000017 WORKING-STORAGE SECTION.
000018 01 LRECL       PIC 9(2).
```
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

```cobol
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 01 WORKING-Storage SECTION.
000015   01 WSVAR PIC X(80).
000016 01 RSVAR REDEFINES WSVAR
000017   02 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

```cobol
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 01 SQF1REC.
000013   02           PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 01 WPAGE PIC 9(2).
000016 PROCEDURE DIVISION.
000017 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

```cob
[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.
```

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

```cob
[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.
```

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

```cob
[P2335.cob]
000001 IDENTIFICATION DIVISION.
```
P2335.cob: 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: 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 X(5).
000009   02 WELM3     PIC X(5).
000010 PROCEDURE DIVISION.
000011 END PROGRAM P2337.
```

P2337.cob: 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.
PROCEDURE DIVISION.
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.
JMN2341I-S

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.

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 01 SQF1REC.
000013   02 PIC X(80).
000014 PROCEDURE DIVISION.
000015 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
        PIC X(2).
000009 01 EXNM  IS EXTERNAL
        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
        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 01 SQF1REC.
000012   02           PIC X(80).
000013 PROCEDURE      DIVISION.
000014 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

```cob
[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 SQFREC.
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

```cob
[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.

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.
```

- 273 -
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 IXF1REC.
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: JMN2385I-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 SQREC.
000014   02 PIC X(80).
000015 CONSTANT SECTION.
000016   01 WFS1 PIC X(2) VALUE SPACE.
```

- 275 -
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 \[[\text{Win64}]\]

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.
```

JMN2394I-S \[[\text{Win32}]\]

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

```
[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.
```

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.
P2394.cob 8: JMN2394I-S Data-name 'WFS2' in the FILE STATUS clause must be defined in the WORKING-SPACE 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-SPACE SECTION, LOCAL-SPACE 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-SPACE 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-SPACE SECTION, LOCAL-SPACE 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
```

- 277 -
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**

```cobol
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(4).
000017 01 WFS2        PIC X(6).
000018 PROCEDURE      DIVISION USING WFS1.
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

```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

```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).
  000015 WORKING-STORAGE SECTION.
  000016 01 WFS1        PIC X(2).
  000017 01 WFS2        PIC X(2).
  000018 PROCEDURE      DIVISION.
  000019 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.
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.

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 REPFILE1 ASSIGN TO SYS001.
000007        SYMBOLIC DESTINATION IS "ABC".
000008 DATA           DIVISION.
000009 FILE            SECTION.
000010 FD REPFILE1.
000011 01 REP1REC.
000012   02           PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE      DIVISION.
000015 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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE 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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE 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.
```

- 281 -
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 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 01 WCTL PIC X(5).
000017 02 LINE 01 COLUMN 35 PIC N(6) SOURCE LABEL1.
000018 PROCEDURE DIVISION.
000019 LABEL1.
000020 END PROGRAM P2403.
```

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.
```
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**

```
IDENTIFICATION DIVISION.
PROGRAM-ID. P2405.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT REPFILE ASSIGN TO SYS001.
DATA DIVISION.
FILE SECTION.
FD REPFILE REPORT REP1.
WORKING-STORAGE SECTION.
01 WITM PIC 9(5).
REPORT SECTION.
01 REP1 PAGE 46
01 HEADING 1
01 FIRST DETAIL 7
01 LAST DETAIL 44.
01 TYPE PAGE HEADING.
02 LINE 01 COLUMN 35 PIC 9(5) SUM WITM.
PROCEDURE DIVISION.
END PROGRAM P2405.
```

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**

```
IDENTIFICATION DIVISION.
PROGRAM-ID. P2406.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT REPFILE ASSIGN TO SYS001.
DATA DIVISION.
FILE SECTION.
FD REPFILE REPORT REP1.
WORKING- STORAGE SECTION.
01 WITM PIC X(5).
REPORT SECTION.
01 REP1 PAGE 46
```
**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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2407.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
   SELECT REPFILE ASSIGN TO SYS001.
DATA DIVISION.
FILE SECTION.
   FD REPFILE REPORT REP1.
WORKING-STORAGE SECTION.
   01 WCTL PIC X(5).
   01 WITM PIC X(5).
   01 WITM PIC X(5).
REPORT SECTION.
   RD REP1 PAGE 46
   HEADING 1
   FIRST DETAIL 7
   LAST DETAIL 44
   CONTROL WCTL.
   01 TYPE CF WCTL.
   02 LINE 43 COLUMN 35 PIC 9(5) SUM WITM.
PROCEDURE DIVISION.
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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2408.
ENVIRONMENT DIVISION.
```

- 284 -
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 REPF1 ASSIGN TO SYS001.
000007 SELECT REPF2 ASSIGN TO SYS001.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD REPF1 REPORT REPF.
000011 FD REPF2 REPORT REPF.
000012 WORKING- STORAGE SECTION.
000013 REPORT SECTION.
000014 CONTROL WCTL.
000015 01 TYPE PAGE HEADING.
000016    02 LINE 01 COLUMN 35 PIC N(6) VALUE SPACE.
000017 PROCEDURE DIVISION.
000018 LABEL1.
000019 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

```cob
[P2410.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2410.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006    SELECT REPFILE1 ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE1 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

```cob
[P2411.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2411.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 DATA DIVISION.
000007 FILE 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

```cob
[P2412.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2412.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
    000006 SELECT REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE REPORT REP1.
000010 WORKING-STORAGE SECTION.
000011 01 WCTL PIC X(5).  
000012 REPORT SECTION.
000013 RD REP1 PAGE 46
000014 01 HEADING 1
000015 01 FIRST DETAIL 7
000016 01 LAST DETAIL 44
000017 01 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

```cob
[P2413.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2413.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA DIVISION.
```

- 287 -
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 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 REPFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA      DIVISION.
000009 FILE     SECTION.
000010 FD REPFILE1
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 REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA      DIVISION.
000009 FILE     SECTION.
000010 FD REPFILE
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
```

- 289 -
**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 REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD PIC 9(2).
000014 REPORT SECTION.
000015 RD REP1 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.
```
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

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2420.
000003 ENVIRONMENT    DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006    SELECT REPFILE ASSIGN TO SYS001
000007    ORGANIZATION IS RELATIVE.
000008    I-O-CONTROL.
000009    DATA DIVISION.
000010    FILE SECTION.
000011    FD REPFILE
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 DE-1 TYPE DE.
000019    02 LINE PLUS 1.
000020    03 COLUMN 1D
000021    PIC S9(4) SOURCE TARGET.
000022    01 TYPE CF CTLD.
000023    02 LINE PLUS 1.
000024    03 TARGET COLUMN 5 PIC X(10) VALUE SPACE.
000025    03 SCI COLUMN 20 PIC S9(4) SUM CTLD.
000026    PROCEDURE DIVISION.
000027    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 REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD REPFILE
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 REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD REPFILE
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 REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD REPFILE
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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE 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 WCCTL.
000017 01 TYPE PAGE HEADING.
000018 02 LINE 01 COLUMN 35 PIC X(5) VALUE SPACE.
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 REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD REPFILE
000011 REPORT IS REP1.
000012 WORKING- STORAGE SECTION.
000013 01 CTLD PIC S9(9).
000014 01 CTLD PIC S9(9).
000015 REPORT SECTION.
000016 RD REP1 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 REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD REPFILE
000011 REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD PIC S9(9).
000014 02 WPEND PIC S9(2).
```
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 REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA DIVISION.
000009 FILE SECTION.
00010 FD REPFILE
00011 REPORT IS REP1.
00012 WORKING-STORAGE SECTION.
00013 01 .
00014 02 CTLD OCCURS 10
00015     PIC X.
00016 REPORT SECTION.
00017 RD REP1 PAGE 66
00018     CONTROL CTLD.
00019 01 TYPE DE.
00020 PROCEDURE DIVISION.
00021 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

```cob
[02428.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2428.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD REPFILE
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

```cob
[02429.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2429.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD REPFILE
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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
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 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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
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 8.
000018   03 COLUMN 10 PIC X(10) SOURCE WSO1.
000019   03 LINE 9
000020 PROCEDURE DIVISION.
000021 END PROGRAM P2431.
```
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 REPFILe ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILe
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 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.
```

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 REPFILe ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILe
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.
```
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**

```cob
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2434.
000003 ENVIRONMENT    DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFILE ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFILE REPORT IS REP1.
000010 WORKING-STORAGE SECTION.
000011 01 WPPT         PROCEDURE-POINTER.
000012 01 WDATE        PIC 9(4).
000013 REPORT          SECTION.
000014 RD REP1 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.
```

Control data-name ‘WPPT’ in the CONTROL clause must not be a procedure pointer data-item.

**Example**

```cob
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2435.
000003 ENVIRONMENT    DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFILE ASSIGN TO SYS001.
```

If a PAGE clause is not specified in a report description entry, an absolute value LINE clause cannot be specified.

**Example**

```cob
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2435.
000003 ENVIRONMENT    DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFILE ASSIGN TO SYS001.
```
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 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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
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.
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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
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.

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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
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.
```
JMN244I-S

The NEXT GROUP clause cannot be specified in a report footing report group or a page heading report group.

Example

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2441.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT REPFILE ASSIGN TO SYS001.
DATA DIVISION.
FILE SECTION.
FD REPFILE REPORT IS REP1.
WORKING-STORAGE SECTION.
01 WSO1 PIC X(10).
01 WSO2 PIC X(10).
REPORT SECTION.
RD REP1 PAGE 66
HEADING 2
FIRST DETAIL 6.
01 TYPE PH NEXT GROUP PLUS 1.
02 LINE 3.
03 COLUMN 10 PIC X(10) SOURCE WSO1.
PROCEDURE DIVISION.
END PROGRAM P2441.
```

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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2442.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT REPFILE ASSIGN TO SYS001.
DATA DIVISION.
FILE SECTION.
FD REPFILE REPORT IS REP1.
WORKING-STORAGE SECTION.
01 WSO1 PIC X(10).
01 WSO2 PIC X(10).
REPORT SECTION.
RD REP1 PAGE 66
```
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

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2443.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
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.
000016 01 TYPE PH.
000017 02 LINE PLUS 1.
000018 03 COLUMN 10 PIC X(10) SOURCE WS01.
000019 PROCEDURE DIVISION.
000020 END PROGRAM P2443.
```

P2443.cob 16: JMN2444I-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 REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA    DIVISION.
000009 FILE   SECTION.
000010 FD REPFILE
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 REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA    DIVISION.
000009 FILE   SECTION.
000010 FD REPFILE
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 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 REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA        DIVISION.
000009 FILE       SECTION.
000010 FD REPFILE
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 REPFILE.
000019 PROCEDURE DIVISION.
000020 LABEL01.
000021 END PROGRAM    P2446.
```

P2446.cob 18: JMN2446I-S 'REPFILE' 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 REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA        DIVISION.
000009 FILE       SECTION.
000010 FD REPFILE
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 CTLD.
000018 01 TYPE CF FINAL.
000019 PROCEDURE DIVISION.
000020 LABEL01.
000021 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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2449.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT REPFILE ASSIGN TO SYS001.
DATA DIVISION.
FILE SECTION.
FD REPFILE
REPORT IS REP1.
WORKING-STORAGE SECTION.
01 WSO1 PIC X(10).
01 WSO2 PIC X(10).
REPORT SECTION.
RD REP1 PAGE 66.
01 TYPE DE.
02 LINE 12.
03 COLUMN 10 PIC X(15) SOURCE WSO1.
03 COLUMN 20 PIC X(10) SOURCE WSO2.
PROCEDURE DIVISION.
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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2450.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT REPFILE ASSIGN TO SYS001.
DATA DIVISION.
FILE SECTION.
FD REPFILE
REPORT IS REP1.
WORKING-STORAGE SECTION.
01 WSO1 PIC X(10).
01 WSO2 PIC X(10).
REPORT SECTION.
RD REP1 PAGE 66.
01 TYPE PH GROUP INDICATE.
02 LINE 2.
03 COLUMN 10 PIC X(15) SOURCE WSO1.
PROCEDURE DIVISION.
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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
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 SOURCE WSO1 PIC X(10).
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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
```

- 308 -
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 REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA            DIVISION.
000009 FILE            SECTION.
000010 FD REPFILE
000011 REPORT IS REP1.
000012 WORKING-STOREAGE SECTION.
000013 01 CTLD        PIC X(1).
000014 REPORT          SECTION.
000015 RD REP1 PAGE 66.
000016 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

```cobol
IDENTIFICATION DIVISION.
PROGRAM-ID. P2458.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
     SELECT REPFILE ASSIGN TO SYS001.
I-O-CONTROL.
DATA DIVISION.
FILE SECTION.
FD REPFILE
       REPORT IS REP1.
WORKING-STORAGE SECTION.
 01 CTLD         PIC X(1).
REPORT SECTION.
RD REP1 PAGE 66
 01 TYPE CF CTLD.
PROCEDURE DIVISION.
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

```cobol
IDENTIFICATION DIVISION.
PROGRAM-ID. P2459.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
     SELECT REPFILE ASSIGN TO SYS001.
I-O-CONTROL.
DATA DIVISION.
FILE SECTION.
FD REPFILE
       REPORT IS REP1.
WORKING-STORAGE SECTION.
 01 CTLD         PIC X(1).
 01 CTLD         PIC X(2).
REPORT SECTION.
RD REP1 PAGE 66
 01 TYPE CF CTLD.
 01 TYPE CF CTLD.
PROCEDURE DIVISION.
LABEL01.
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 REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD REPFILE
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 REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD REPFILE
000011   REPORT IS REP1.
000012 WORKING-STORAGE SECTION.
000013 01 CTLD PIC X(1).
000014 01 CTLD PIC X(2).
```
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 REPFILE ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFILE
000010     REPORT IS REP1.
000011 01 WSO1        PIC X(10).
000012 01 WSO2        PIC X(10) SOURCE WSO1(1:5) WSO2.
000013 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.
000021 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

```cobol
IDENTIFICATION DIVISION.
PROGRAM-ID. P2463.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT REPFILE ASSIGN TO SYS001.
DATA DIVISION.
FILE SECTION.
FD REPFILE REPORT IS REP1.
WORKING-STORAGE SECTION.
01 WSO1 PIC X(10).
01 WSO2 PIC X(10).
REPORT SECTION.
RD REP1 PAGE 66.
01 TYPE DE.
   02 LINE 10.
     03 COLUMN 10 PIC X(10) SOURCE WSO1 WSO2.
PROCEDURE DIVISION.
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

```cobol
IDENTIFICATION DIVISION.
PROGRAM-ID. P2464.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT SQFILE1 ASSIGN TO SYS001.
I-O-CONTROL.
DATA DIVISION.
FILE SECTION.
FD SQFILE1 REPORT IS REP1.
WORKING-STORAGE SECTION.
01 CTLD PIC 9(2).
REPORT SECTION.
RD REP1 PAGE 66
01 TYPE DE.
   02 LINE 12.
     03 COLUMN 10 PIC X(10) SOURCE WSO1 WSO2.
PROCEDURE DIVISION.
END PROGRAM P2464.
```
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 REP1.
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.
```

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 .
```
P2466.cob 20: JMN2466I-S Invalid word '-2' appeared in the subscript of the SUM clause. Subscript 1 is assumed.

A right parenthesis is missing in the subscript or reference modifier. A right parenthesis is assumed.

Example

```
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 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 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

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2468.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFILE ASSIGN TO SYS001.
```
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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
000010 REPORT IS REP1.
000011 WORKING-STOREAGE 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(-1:10).
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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
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(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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
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.
```

- 317 -
**JMN2471-I**

**A RESET clause cannot be specified in a report without a CONTROL clause.**

**Example**

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2472.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT SQFILE1 ASSIGN TO SYS001.
000008 DATA DIVISION.
FILE SECTION.
FD SQFILE1 REPORT IS REP1.
000111 REPORT IS REP1.
00012 WORKING-STORAGE SECTION.
00013 01 WITM1 PIC 9(2).
00014 01 WITM2 PIC 9(2).
00015 REPORT SECTION.
00016 RD REP1 PAGE 66.
00017 01 TYPE CF WITM1.
00018 02 PIC S9(4) SUM WITM1 RESET WITM2.
00019 PROCEDURE DIVISION.
00020 END PROGRAM P2472.
```

**P2472.cob 18: JMN2471-I 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.

**JMN2473-I**

**If FINAL is specified in the RESET clause, FINAL must also be specified in the CONTROL clause.**

**Example**

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2473.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT SQFILE1 ASSIGN TO SYS001.
000008 DATA DIVISION.
FILE SECTION.
FD SQFILE1 REPORT IS REP1.
000111 REPORT IS REP1.
00012 WORKING-STORAGE SECTION.
00013 01 WITM1 PIC 9(2).
00014 01 WITM2 PIC 9(2).
```

- 318 -
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 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 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.
```
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 REPFILE ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFILE
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 NEXT GROUP PLUS 1.
000019 02 .
000020 03 PIC X(10) SOURCE WSO1.
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 REPFILE ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFILE
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 NEXT GROUP PLUS 1.
000019 02 .
000020 03 PIC X(10) SOURCE WSO1.
000021 PROCEDURE      DIVISION.
000022 END PROGRAM    P2477.
```
JMN2478I-S

The COLUMN clause and the PRINTING POSITION clause cannot both be specified the same report group. Compilation continues.

Example

```
[PC2478.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2478.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
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 LINE 12 DISPLAY.
000016 02 PIC X SOURCE WSO1.
000017 PROCEDURE DIVISION.
000018 END PROGRAM P2478.
```

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 REPFILE ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008 DATA DIVISION.
000009 FILE SECTION.
000010 FD REPFILE
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 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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
000010 REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 CTLD
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(20) SOURCE WSO1().
000019 PROCEDURE DIVISION.
000020 LA.
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.
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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
000010     REPORT IS REP1.
000011 WORKING- STORAGE SECTION.
000012 01 .
000013   02 WSO1       PIC X(10) OCCURS 10 INDEXED BY WIX.
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 LB.
000021 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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
000010     REPORT IS REP1.
000011 WORKING- STORAGE SECTION.
000012 01 .
000013   02 WSO1       PIC X(10) OCCURS 10
A PICTURE clause must be specified in the report group description entry at the third level.

**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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
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 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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
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 PIC X(10).
000019 PROCEDURE DIVISION.
000020 LB.
000021 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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
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 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 REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
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 LINE 12.
000017 02 PIC X.
000018 DISPLAY SOURCE WSO1.
000019 PROCEDURE DIVISION.
```

- 326 -
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

```cobol
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 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 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

```cobol
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 REPFILE ASSIGN TO SYS002.
000008 I-O-CONTROL.
000009 SAME RECORD AREA SQFILE1 REPFILE.
000010 DATA DIVISION.
```
**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**

```cobol
P2493.cob
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2493.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006 SELECT REPFILE ASSIGN TO SYS001.
000007 DATA DIVISION.
000008 FILE SECTION.
000009 FD REPFILE
000010 RECORD VARYING IN SIZE
000011 DEPENDING ON LRECL
000012 REPORT IS REP1.
000013 WORKING-STORAGE SECTION.
000014 01 LCREL PIC 9(2).  
000015 01 WITM PIC 9(2).
000016 REPORT SECTION.
000017 RD REP1 PAGE 66.
000018 01 CONTROL LCREL.
000019  02 WSC1 PIC 9(4) SUM 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**

```cobol
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 REPFILE ASSIGN TO SYS002.
000008 I-O-CONTROL.
```
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

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2495.
000003 ENVIRONMENT    DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFILE ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFILE
000010       REPORT IS REP1.
000011 WORKING-STORAGE SECTION.
000012 01 WITM         PIC N(20).
000013 REPORT          SECTION.
000014 RD REP1 PAGE 66.
000015 01 DE-REC TYPE DE.
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

```
000001 IDENTIFICATION DIVISION.
```

- 329 -
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**

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2497.
000003 ENVIRONMENT    DIVISION.
000004 INPUT-OUTPUT    SECTION.
000005 FILE-CONTROL.
000006     SELECT REPFILE ASSIGN TO SYS001.
000007 DATA           DIVISION.
000008 FILE            SECTION.
000009 FD REPFILE
000010     REPORT IS REP1.
000011 WORKING-STOREAGE 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**

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    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 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

```cob
[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

```cob
[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.

JMN25021-S

'@2@' in the @1@ statement must be @3@. '13' 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 000009 COMPUTE 13 = 12 + 1
     END PROGRAM P2502.
```

P2502.cob 8: JMN25021-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.

JMN25031-S

User word '13' 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.
```

-333-
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

```cobol
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

```cobol
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2506.
000003 ENVIRONMENT    DIVISION.
000004 DATA           DIVISION.
000005 WORKING-Storage SECTION.
000006 PERFORM WITH NO LIMIT
000007 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

```cobol
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2507.
000003 ENVIRONMENT    DIVISION.
000004 DATA           DIVISION.
000005 WORKING-Storage SECTION.
```
PROCEDURE DIVISION.
   IF DB-EXCEPTION IS 10
      GO TO END-PROC.
   END-PROC.
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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2508.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 WDA PIC X.
PROCEDURE DIVISION.
     IF WDA = SPACE THEN
       NEXT SENTENCE
     END-IF
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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2509.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 WDA PIC X.
PROCEDURE DIVISION.
   PERFORM 10 TIMES
      IF WDA = SPACE THEN
       DISPLAY "SPACE"
      END-PERFORM.
END PROGRAM P2509.
```
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.

Parameter Explanation

@1@ : Explicit scope terminator without corresponding verb.

Example

```
[2510.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.
000100     NEW IF
000101 END PROGRAM    P2510.
```

'@1@' does not correspond. '@1@' is ignored.

Parameter Explanation

@1@ : Explicit scope terminator without corresponding verb.

Example

```
[2511.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2511.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING- STORAGE SECTION.
```

'@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

```
[2511.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2511.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING- STORAGE SECTION.
```
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 SQFREC.
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.
```
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 INPUT SQF1REC.
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

```plaintext
[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

```plaintext
[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 DATA DIVISION.
000009 FILE SECTION.
000010 FD IXFILE1.
000011 01 IXF1REC.
000012   02 WRKY1     PIC X(2).
000013   02         PIC X(80).
000014 WORKING-STORAGE SECTION.
000015 PROCEDURE DIVISION.
000016     START IXF1REC
000017       KEY IS EQUAL TO WRKY1
000018 END PROGRAM    P2516.
```

- 340 -
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(2D).
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

'@1@' after '@2@' must be a procedure-name.

Parameter Explanation
@1@ : THRU.

@2@ : Word that causes the error.
Example

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2519.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
PROCEDURE DIVISION.
PERFORM P1 THRU
STOP RUN.
P1.
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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2520.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
PROCEDURE DIVISION.
CALL "SUB2520" USING "DATA".
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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2521.
ENVIRONMENT DIVISION.
DATA DIVISION.
PROCEDURE DIVISION.
PERFORM TEST
VARYING WLOOP FROM 1
BY 1 UNTIL WLOOP = 10
DISPLAY WLOOP
END-PERFORM
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 > 10000000
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 WLOOP7 > 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.
```
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
```

- 345 -
[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(ZERO(S, 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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2539.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 WDA1 PIC X(1).
01 WDA2 PIC X(1).
PROCEDURE DIVISION.
EVALUATE TRUE
  WHEN WDA1 = SPACE
  ALSO WDA2 = SPACE
  DISPLAY "OK"
  WHEN OTHER
  DISPLAY "NG"
END-EVALUATE
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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2540.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
PROCEDURE DIVISION.
  E-PROC
    DISPLAY "EXIT"
    EXIT.
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

```cob
IDENTIFICATION DIVISION.
```
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.
```
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.
```
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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2550.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT REPFILE ASSIGN TO SYS001.
DATA DIVISION.
FILE SECTION.
FD REPFILE REPORT IS REP1.
WORKING-STORAGE SECTION.
01 WBUF1 PIC X(80).
REPORT SECTION.
RD REP1 PAGE 66 CONTROL FINAL.
01 TYPE DE.
PROCEDURE DIVISION.
LBL1.
GENERATE LBL1 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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2551.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 WDA1 PIC X(20).
PROCEDURE DIVISION.
SET WDA1 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

```cob
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2552.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 WDA1 PIC X(2D).
000007 01 WDA2 PIC X(2D).
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

```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) OCCURS 10 INDEXED BY IX1.
000008 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

```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(1D).
000009 02 WDX2 PIC N(1D).
000010 PROCEDURE DIVISION.
000011 INITIALIZE WGRP
000012 REPLACING DATA BY SPACE
000013 END PROGRAM P2554.
```
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.

---

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**

```cob [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.
```

---

The USE statement can only be specified in DECLARATIVES.

**Example**

```cob [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-STOREAGE 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.
```

---

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 IXF1REC.
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-STOREGE 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.
```
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 017 02 WANS PIC S9(9) BINARY.
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 01 SRTFILE ASSIGN TO SYS003.
000007 01 SRTFILE ASSIGN TO SYS003.
000008 DATA DIVISION.
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

```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

```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 REPFILE ASSIGN TO SYS002.
000008     I-O-CONTROL.
000009 DATA           DIVISION.
000010 FILE           SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC     PIC X(80).
000013 FD REPFILE
000014     REPORT IS REP1.
```
000015 WORKING-STOREAGE 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-STOREAGE 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-STOREAGE SECTION.
000006 01 WGRP.
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
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 SQFIREC.
000014 02 PIC X(80).
000015 FD SQFILE2.
000016 01 SQF2REC.
000017 02 PIC X(80).
000018 SD SRTFILE.
```
**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.
    SELECT SQFILE1 ASSIGN TO SYS001.
    SELECT SQFILE2 ASSIGN TO SYS002.
    SELECT SRTFILE ASSIGN TO SYS003.
000006 I-O-CONTROL.
000007 DATA DIVISION.
000008 FILE SECTION.
    FD SQFILE1.
    01 SQF1REC.
        02                   PIC X(80).
    FD SQFILE2.
    01 SQF2REC.
        02                   PIC X(80).
    SD SRTFILE.
    01 SRTREC.
000020 02 SRTKEY01  PIC X(1).
000021 02 SRTKEY02  PIC X(1).
    .
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 KEY SRTKEY
000090 SRTKEY01 SRTKEY02 SRTKEY03 SRTKEY04 SRTKEY05
    .
000102 SRTKEY61 SRTKEY62 SRTKEY63 SRTKEY64 SRTKEY65
000103 USING SQFILE1
000104 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.

JMN2576-I-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: JMN2576-I-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.

JMN2580-I-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 SQFIREC.
000014   02           PIC X(80).
000015 FD SQFILE2.
000016 01 SQFREC.
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 REPFILE ASSIGN TO SYS002.
000008 I-O-CONTROL.
000009 DATA DIVISION.
000010 FILE SECTION.
000011 FD SQFILE1.
000012 01 SQF1REC PIC X(80).
000013 FD REPFILE
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.
```

- 368 -
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**

```cob
[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.
```

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**

```cob
[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 SQFREC.
000012 02 PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 PROCEDURE DIVISION.
```

- 369 -
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.
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

```
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 SQFIREC.
000015 02 PIC X(80).
000016 WORKING-STOREAGE SECTION.
000017 PROCEDURE DIVISION.
000018     WRITE SQFIREC
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
```
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 * (WNUM2 - WNUM3
000011 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.
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-STOREAGE 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-STOREAGE SECTION.
000006 01 WGRP.
```

- 375 -
**JMN2606I-S**

An integer must be specified after '+' or '-' following the index-name. The subscript of that dimension is assumed to be 1.

Example

```
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

```
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 REPFILE ASSIGN TO SYS002.
000008 I-O-CONTROL.
000009 DATA DIVISION.
000010 FILE SECTION.
```
**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.

**Parameter Explanation**

@1@ : USE FOR DEAD-LOCK

**Example**

```cob
[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.
```

**JMN2608I-S**

Only one USE FOR DEAD-LOCK statement can be specified in the outermost program.

**Example**

```cob
[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.
```
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).
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 KEY SRTKEY OF SQFILE1
000030     USING SQFILE1
000031     GIVING SQFILE2.
000032   END PROGRAM P2610.
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.
P2617.cob 9: JMN26171-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.

JMN26331-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: JMN26331-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.

JMN26341-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).
EXEC SQL END DECLARE SECTION END-EXEC.

PROCEDURE DIVISION.

EXEC SQL
OPEN CUR1
END-EXEC
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. P2639.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 WNUM PIC X.
PROCEDURE DIVISION.
08 EVALUATE WNUM
09 WHEN "A" THRU "Z" DISPLAY "ALPHABETIC"
09 WHEN "0" THRU DISPLAY "NUMERIC"
END-EVALUATE
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. P2640.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
PROCEDURE DIVISION.
07 PERFORM WITH NO LIMIT
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**

```cob
[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**

```cob
[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"STOP".
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**

```cob
[P2645.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P2645.
000003 ENVIRONMENT DIVISION.
```
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 'CLOSE' is assumed to correspond with the previous 'OPEN' statement.

Parameter Explanation

CLOSE: 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 ENDWRITE.

OPEN: 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.
```
**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**

```
IDENTIFICATION DIVISION.
PROGRAM-ID. P2654.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT IXFILE1 ASSIGN TO SYS001
ORGANIZATION IS INDEXED
RECORD KEY RKEY.
I-O-CONTROL.
DATA DIVISION.
FILE SECTION.
FD IXFILE1 LABEL RECORD STANDARD.
01 IXF1REC.
   02 RKEY PIC X(8).
   02           PIC X(72).
01 LREC PIC X(80).
WORKING-STORAGE SECTION.
PROCEDURE DIVISION.
DECLARATIVES.
ER1 SECTION.
USE AFTER STANDARD ENDING FILE
LABEL PROCEDURE ON IXFILE1.
END DECLARATIVES.
END PROGRAM P2654.
```

**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 SQFREC.
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.
```

- 388 -
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.
```
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.
```
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 PROCEDURE      DIVISION.
000010     EXEC SQL
000011       WHENEVER SQLERROR GO TO :PROC-NAME
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    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 ([Win64])

'@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).
```
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 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.

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.
```
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.
```

- 395 -
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

```cob
[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.

JMN2682I-S

The cursor name '@1@' is already defined.

Parameter Explanation

@1@ : Cursor name that causes the error.

Example

```cob
[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 REPFILE ASSIGN TO SYS002.
000007 I-O-CONTROL.
000008 DATA DIVISION.
000009     FILE SECTION.
000010 FD REPFILE
000011    REPORT IS REP1.
```
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 INDEXED BY IX1.
000008    01 LCNT PIC S9(4) BINARY.
000009    01 PROCEDURE DIVISION.
000010 PERFORM TEST BEFORE
000011 VARYING LCNT FROM IX1 BY 0 UNTIL IX1 = 26
000012 DISPLAY WOCC(IX1)
000013 END-PERFORM
000014 END PROGRAM    P2693.

P2693.cob 12: JMN2693I-W '0' must be an identifier or a non-zero integer. It is accepted as written.

Explanations
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

[C2694.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    01 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.

Explanations
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.
JMN2695I-S

"AAA" qualified by a pointer must be a data-name or a condition-name. The pointer qualification is ignored.

Explanation

An EXIT PERFORM statement is allowed only in an in-line PERFORM statement with a termination condition specified. Executing an EXIT PERFORM statement 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.

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

```
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.
```

- 402 -
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.
```
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
          PIC X(2) VALUE SPACE.
000006 01 WK2  IS EXTERNAL.
000007   02           PIC X(2) VALUE SPACE.
000008 PROCEDURE      DIVISION.
000009 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.
          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    SELECT SQFILE1 ASSIGN TO SYS001.
000007 I-O-CONTROL.
000008     APPLY SAVED-AREA TO WSAVE ON SQFILE1.
000009 DATA           DIVISION.
000010 FILE            SECTION.
000011 FD SQFILE1.
000012 01 SQFIREC.
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.
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.

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@ : ANSI85

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.
P2726.cob 8: JMN2726I-I (OBS) The ALTER statement is an obsolete element in ANSI85 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@ : ANSI85

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 SQFREC.
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 ANSI85 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 ANSI85 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.
P2728.cob 10: JMN2728I-I (OBS) The GO TO statement without a procedure-name is an obsolete element in ANSI85 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

```
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

```
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.
```
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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2742.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
EXEC SQL BEGIN DECLARE SECTION END-EXEC.
SQLSTATE PIC X(5).
SQLINFOA.
01 SQLERRD PIC S9(9) BINARY OCCURS 10 TIMES.
HVAR3 PIC S9(9) BINARY.
EXEC SQL END DECLARE SECTION END-EXEC.
PROCEDURE DIVISION.
EXEC SQL
SELECT CL1 INTO :HVAR3 FROM TBL END-EXEC.
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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P2744.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
EXEC SQL BEGIN DECLARE SECTION END-EXEC.
SQLSTATE PIC X(5).
HRGRP.
02 WDEPND PIC S9(4) BINARY.
02 OCCURS 10 DEPENDING ON WDEPND.
HVAR3 PIC S9(9) BINARY.
EXEC SQL END DECLARE SECTION END-EXEC.
PROCEDURE DIVISION.
EXEC SQL
SELECT CL1 INTO :HVAR3 FROM TBL END-EXEC.
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

```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.

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

```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 :HVAR3 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.
```
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) 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.    P2753.
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 P2750.
000026 END PROGRAM P2750.
```

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.

- 416 -
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

```cob
[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

```cob
[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 SQFIREC.
000011 02 PIC X(80).
000012 WORKING-Storage SECTION.
000013 PROCEDURE DIVISION.
000014 WRITE SQFIREC 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 DATA DIVISION.
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-DEVATION
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 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 01 WFS1     PIC X(2).
000016    02        PIC X(2).
000017 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        PIC X(80).
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.
'@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

```cob
[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

```cob
[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

```cob
[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

```cob
[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

```cob
[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.
```
PROCEDURE DIVISION.
EXEC SQL
SELECT COL2 INTO :HVR1
FROM T1 WHERE COL1 = 0
END-EXEC
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. P2800.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT SQFILE1 ASSIGN TO SYS001
       FORMAT IS WFMT.
I-O-CONTROL.
DATA DIVISION.
FILE SECTION.
FD SQFILE1.
01 SQF1REC.
   02 PIC X(80).
CONSTANT SECTION.
01 WFMT PIC X(8) VALUE SPACE.
PROCEDURE DIVISION.
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 (Win64)
The data-name in @1@ clause must be defined in the WORKING-STORAGE SECTION, LOCAL-STOREAGE 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]
IDENTIFICATION DIVISION.
PROGRAM-ID. P2800.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.

- 425 -
**JMN28001-I-S**

The data-name in the FORMAT 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 or SELECTED FUNCTION.

**Example**

```
P2800.cob 7: JMN28001-I-S The data-name in FORMAT clause must be defined in the WORKING-STORAGE SECTION, LOCAL-STORAGE SECTION or LINKAGE SECTION.

P2800.cob 12: JMN28011-I-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.
```

- 426 -
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 SQFREC.
000013 02 PIC X(80).
000014 WORKING-RECORD SECTION.
000015 01 WFMT PIC X(2).
000016 WORKING-STORAGE SECTION.
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 PRFREC.
000014 02 PIC X(80).
000015 WORKING-RECORD SECTION.
000016 01 WDST PIC X(3).
000017 01 WMSC PIC N(2).
000018 WORKING-STORAGE SECTION.
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

```cob
[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

```cob
[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).
```

- 429 -
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 SQFREC.
000014    02 PIC X(80).
000015     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
000016     01 HVAR1     PIC S9(9) BINARY.
000017     01 SQLSTATE PIC X(5).
000018     01 SQLMSG.
000019     02 PIC S9(4).
000020     02 PIC X(50).
000021     EXEC SQL END DECLARE SECTION END-EXEC.
000022 PROCEDURE  DIVISION.
000023     EXEC SQL WHENEVER SQLERROR CONTINUE END-EXEC
000024     EXEC SQL
000025       SELECT CLI FROM T1
000026     CONTINUE :HVAR1
000027     END-EXEC
000028 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 CLI FROM T1
000017 CONTINUE :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 PRFIREC.
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.
```
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.

**JMN28311-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.

**JMN28321-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

The 32767 byte maximum 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 PROFILE1 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 PROFILE1.
000013 01 PROFLREC.
000014   02 PIC X(80).
000015   02 PIC X(8).
000016 01 WMCL 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).
```
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, GYD, GXY
- 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 REPFILE ASSIGN TO SYS002.
000011  DATA           DIVISION.
000012  FILE            SECTION.
000013  FD SQFILE1.
000014  01 SQF1REC      PIC N(40).
000015  FD REPFILE
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 PM1.
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 FREC.
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**

```cob
[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 PRFIREC.
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**

```cob
[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 IXFIREC.
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.
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   01 SQFIREC   PIC X(80).
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**

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 SQFIREC.
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) VALUE "12".
000007 88 C1 VALUE 24.
000008 88 C2 VALUE 24.
000009 PROCEDURE DIVISION.
000010 END PROGRAM C2863.
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

```
[02864.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

```
[02866.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 SQFIREC.
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

The data-name in the @1@ clause must be defined in the WORKING-STORAGE SECTION, LOCAL-STORAGE, 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, 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
                          DEPENDING ON WSIZE.
000009 01 WRDA REDEFINES WDA.
000011          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-STOREAGE 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-STOREAGE 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.
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.
```

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.
```
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      447 -
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 9(5) BINARY.
000010        49 GHVRX PIC X(200).
000011   EXEC SQL END DECLARE SECTION END-EXEC.
000012 PROCEDURE DIVISION.
000013      EXEC SQL
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.
```

-448-
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

```
[28888.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 SQLOSTATE PIC X(5).
000008 01 HVR.
000009 49 GVR.
000010 49 GVRX 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 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.
```
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.
```
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.
```

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.
```

---

- 451 -
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 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
P2897.cob 12: JMN2897I-S The FORMATTED RECORD clause cannot be specified for a print file with a FORMAT clause.

Explanation
The FORMATTED 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

```
[2898.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

```
[2899.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2899.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
```
WORKING-STORAGE SECTION.
EXEC SQL BEGIN DECLARE SECTION END-EXEC.
01 SQLSTATE PIC X(5).
01 HVAR PIC X(10) JUSTIFIED.
EXEC SQL END DECLARE SECTION END-EXEC.
PROCEDURE DIVISION.
EXEC SQL
SELECT COL1 INTO :HVAR
END-EXEC
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 | P2901.cob 10: JMN2901I-W '0' cannot be specified after '+' or '-' following an index-name. It is accepted as written.
---|---
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P2901.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-SPACE 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.

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. 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-FILE 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 01 SRTF1REC RECORD CONTAINS 0.
000012   02            PIC N(80).
000013 WORKING-FILE SECTION.
000014 01 WFS1           PIC X(2).
000015 PROCEDURE DIVISION.
000016 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 WSVAR PIC X(80) IS EXTERNAL.
000015 PROCEDURE DIVISION.
000016 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.
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.
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 IXFIREC.
000013  02 WRKY1 PIC X(2).
000014  02 PIC X(8D).
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
```

- 458 -
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     START IXFILE1
000019        USING KEY EQUAL WRKY
000020 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(1D) Character TYPE PM1 OR 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(1D) Character TYPE PM1.
000013 PROCEDURE DIVISION.
000014 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

```cob
IDENTIFICATION DIVISION.
000001 PROGRAM-ID.   P2922.
000002 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 9(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

```cob
IDENTIFICATION DIVISION.
000001 PROGRAM-ID.   P2923.
000002 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 9(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

```cob
IDENTIFICATION DIVISION.
000001 PROGRAM-ID.   P2924.
000002 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)
000000       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 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 PM2.
000011 02 WDX PIC X(10).
000012 02 WDN PIC N(10).
000014 01 WMODE CHARACTER TYPE MODE1.
000015 PROCEDURE DIVISION.
000016 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
         DEPENDING ON WMODE.
000011   02 WDX       PIC X(10).
000012   02 WDN       PIC N(10).
000014 01 WMODE       PIC X(4).
000015 PROCEDURE DIVISION.
000016 END PROGRAM P2930.
```

P2930.cob 11: JM2930I-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.

JM2930I-S ([Wix64])

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
         DEPENDING ON WMODE.
000011   02 WDX       PIC X(10).
000012   02 WDN       PIC N(10).
000014 01 WMODE       PIC X(4).
000015 PROCEDURE DIVISION.
000016 END PROGRAM P2930.
```
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**

```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 DEPENDING ON WMODE.
000012 02 WDX PIC X(10).
000014 02 WDN PIC N(10).
000015 01 WMODE PIC S9(4).
000016 PROCEDURE DIVISION.
000017 END PROGRAM P2931.
```

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**

```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.
```

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.
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

```
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

```
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2934.
000003 ENVIRONMENT     DIVISION.
000004 CONFIGURATION   SECTION.
000005 SPECIAL-NAMES.
000006        CRT STATUS IS CRTST1.
000007 DATA            DIVISION.
```
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  JUSTIFIED.
000010 PROCEDURE DIVISION.
000011 END PROGRAM P2935.
```

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.
FROM or USING.

Example

```cob
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.   P2937.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STOREAGE 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

```cob
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.   P2938.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STOREAGE 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 FROM 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.
```

- 469 -
P2941.cob 6: JMN2941-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.
```
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

```
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.
    02 LINE PLUS 1.
      03 COLUMN 1
000016 PIC X(80) VALUE ALL "-------".
000017 SCREEN SECTION.
000019 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.
    02 LINE PLUS 1.
      03 COLUMN 1
```
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: JMN2951-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 SQFIREC.
000013 02 PIC X(8D).
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

```cob
[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 SQFIREC.
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 ([Wixn64])

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

```cob
[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 SQFIREC.
000012   02 PIC X(80).
000013 WORKING-STORAGE SECTION.
000014 01 FILENAME PIC N(100).
```
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.
```

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.
```
P2957.cob 9: JMN29571-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.

JMN29581-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 C LINKAGE
000010                USING LK1.
000011 END PROGRAM     P2958.
```

P2958.cob 9: JMN29581-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.

JMN29591-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*   ENTRY "P2959ENT"
000012                WITH STDCALL.
000013 END PROGRAM     P2959.
```

- 479 -
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

```cob
[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, LEFTLIGHN, LOWLIGHT, OVERLINE, PROMPT, REQUIRED, REVERSE-VIDEO, RIGHT-JUSTIFY, SECURE, SIZE, SPACE-FILL, TRAILING-SIGN, UNDERLINE, UPDATE or ZERO-FILL.

Example

```cob
[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.
```
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 01 PSTATE   PIC X(8).
000008 PROCEDURE DIVISION.
000009   ACCEPT PSTATE AT 1010
000010   WITH AUTO.
000011   DISPLAY PSTATE WITH LOWLIGHT
000012   HIGHLIGHT.
000013 END PROGRAM   P2962.

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).
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

```plaintext
[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

```plaintext
[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.
```
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

```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.
000012 PROCEDURE DIVISION.
000013       EXEC SQL
000014         SELECT CL1 INTO :HVAR3 FROM TBL
000015       END-EXEC.
000016 END PROGRAM P2969.
```

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 level01 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

```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.
```
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

```cob
[P2971.cob]
000001 @OPTIONS ARITHMETIC(31)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.     P2971.
000004 PROCEDURE DIVISION.
000005     GO TO 1234567890123456789012345678901.
000006 1234567890123456789012345678901.
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

```cob
[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

```
[02986.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.     P2986.
000003 ENVIRONMENT     DIVISION.
000004 DATA            DIVISION.
000005 WORKING-STORAGE 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

```
[02988.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       SYMBOLIC DESTINATION  IS "XAP"
000008       FORMAT         IS WFMT
000009       GROUP          IS WGRP
000010       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     01 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

```
[02993.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.
```
WORKING-STORAGE SECTION.
01 WDATA01   PIC X(5).
01 WDATA02   PIC X(5).
01 WDATA03   PIC X(10).
01 WDATA04   PIC 99,99.
PROCEDURE DIVISION.
STRING WDATA01 WDATA02 INTO WDATA03
BY CSV-FORMAT.
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. P2994.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 WDATA01 PIC X(4).
01 WDATA02 PIC X(8).
PROCEDURE DIVISION.
STRING WDATA01 ZERO INTO WDATA02
BY CSV-FORMAT.
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]
@OPTIONS ENCODE(UTF8,UTF32)
IDENTIFICATION DIVISION.
PROGRAM-ID. P2996.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 N1 PIC N(536870912).
PROCEDURE DIVISION.
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

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</tbody>
</table>
JMN30001-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: JMN30001-S The value of the subscript of 2th dimension for 'AN01' must be positive. 1 is used for the subscript value.

JMN30011-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).

- 490 -
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(1).

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).
PROCEDURE DIVISION.
MOVE ZERO TO SBITEM(11:1).
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3010.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 SBITEM PIC X(10).
PROCEDURE DIVISION.
MOVE ZERO TO SBITEM(6:6).
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3011.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 ED01 PIC S9(9).
01 ED02 PIC S9(9).
PROCEDURE DIVISION.
MOVE ZERO TO SBITEM(6:6).
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 01 ED02 PIC 9P.
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.
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.
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-STYLE 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-STYLE 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-STYLE STORAGE SECTION.
000005 01 ED01 PIC S9(16).
000006 01 ED02 PIC SV9(16).
000007 PROCEDURE DIVISION.
000008 ADD ED01 TO ED02.
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

```cobol
IDENTIFICATION DIVISION.
PROGRAM-ID. C3024.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 ED01 PIC S9(16).
01 ED02 PIC SV9(16).
PROCEDURE DIVISION.
         ADD ED01 TO ED02.
```

A Boolean expression cannot be specified in a conditional expression.

Example

```cobol
IDENTIFICATION DIVISION.
PROGRAM-ID. C3025.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 A PIC 1(8) BIT.
PROCEDURE DIVISION.
P-START.
       IF ( A ) = '00001111' THEN
         STOP RUN.
```

A Boolean expression cannot be specified in a conditional expression.
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.
```
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**

```cob
[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**

```cob
[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.
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
MOVE 1 TO A(IX1).
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3043.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 A PIC 9(2).
01 B PIC XX.
01 X PIC 9(2).
PROCEDURE DIVISION.
EVALUATE X
WHEN A THROUGH B
MOVE 1 TO A.
END-EVALUATE.
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3046.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 A PIC 9(2).
PROCEDURE DIVISION.
EVALUATE A
WHEN 0
MOVE 0 TO A
WHEN TRUE
MOVE 1 TO A
END-EVALUATE.
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.
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 AA 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.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 AA PIC ZZZZ9.
PROCEDURE DIVISION.
P-START.
ACCEPT AA FROM SYSIN.
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3054.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT IN-FILE ASSIGN TO DA-S-SYS006.
DATA DIVISION.
FILE SECTION.
FD IN-FILE LABEL RECORD STANDARD.
01 REC.
02 REC-NO PIC 9(4).
02 REC-DATA PIC X(8).
02 FILLER PIC X(68).
WORKING-STORAGE SECTION.
77 AA PIC 1(8).
PROCEDURE DIVISION.
P-START.
ACCEPT AA FROM DATE.
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]
IDENTIFICATION DIVISION.
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.
SELECT FILE-2 ASSIGN TO DA-S-SYS002.
SELECT FILE-3 ASSIGN TO DA-S-SYS003.
DATA DIVISION.
FILE SECTION.
SD FILE-1 LABEL RECORD STANDARD.
 01 REC-1.
     02 KEY-1 PIC 9(2).
     02 KEY-2 PIC 9(2).
     02 KEY-3 PIC 9(2).
     02 FILLER PIC X(74).
FD FILE-2 LABEL RECORD STANDARD.
 01 REC-2 PIC X(80).
FD FILE-3 LABEL RECORD STANDARD.
 01 REC-3 PIC X(80).
PROCEDURE DIVISION.
P-START.
  SORT FILE-1 ON ASCENDING KEY KEY-1 KEY-2
  COLLATING SEQUENCE ABN-1
  USING FILE-2
  GIVING FILE-3.
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3060.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
DATA DIVISION.
FILE SECTION.
CONSTANT SECTION.
  01 ED-DATA PIC 9(4) VALUE 10.
PROCEDURE DIVISION.
P-START.
  MOVE 20 TO ED-DATA.
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]
PROGRAM-ID. C3061.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
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.
```

C3064.cob 11: JMN3064I-S Operand 'C' of the GIVING phrase in the ADD statement must be a numeric or a numeric edited item.
C3064.cob 12: JMN3064I-S Operand 'C' of the GIVING phrase in the SUBTRACT statement must be a numeric or a numeric edited item.
C3064.cob 13: JMN3064I-S Operand 'C' of the GIVING phrase in the MULTIPLY statement must be a numeric or a numeric edited item.
C3064.cob 14: JMN3064I-S Operand 'C' of the GIVING phrase in the DIVIDE statement must be a numeric or a numeric edited item.
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 a 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

```cob
[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

```cob
[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

```cob
[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 01 D PIC 9(4).
000010 PROCEDURE DIVISION.
000011 P-START.
000012  COMPUTE A = B ON SIZE ERROR STOP RUN
000013                  NOT ON SIZE ERROR MOVE B TO C.
000014  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 @1@ must be a numeric item or a numeric edited item.
C3071.cob 11: JMN3071-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 01  C PIC 1111.
000009 PROCEDURE DIVISION.
000010 P-START.
000011  COMPUTE A = B .
000012  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.
```
COMPUTE A ROUNDED = B AND C.
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.
PROCEDURE DIVISION.
P-START.
    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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3080.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 A PIC 1 BIT.
01 B PIC 1(8) BIT.
PROCEDURE DIVISION.
P-START.
    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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3081.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 A PIC S9(4)V9 BINARY.
01 B.
02 C OCCURS 10 TIMES INDEXED BY IX.
03 D PIC XX.
PROCEDURE DIVISION.
P-START.
    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.
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 X(4).
000010 PROCEDURE DIVISION.
000011 P-START.
000012     IF A IS POSITIVE    STOP RUN.
```

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.
```

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.
```
PROCEDURE DIVISION.
   IF 10 + 20 IS POSITIVE THEN
      DISPLAY "ERROR"
   END-IF
END PROGRAM C3088.

The arithmetic expression of the sign condition must contain at least one identifier.

The usage of sending item @1@ in the UNSTRING statement must be 'DISPLAY'.

An item with a reference modifier cannot be specified for the sending operand of an UNSTRING statement.

The usage of identifier @2@ of the @1@ phrase in the UNSTRING statement must be 'DISPLAY'.

Parameter Explanation
   @1@ : Identifier.
   @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).
**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

```plaintext
[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

```plaintext
[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.
```
**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

```cob
[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

```cob
[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 9999.
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 ZZZZ.
000007 PROCEDURE DIVISION.
000008 P-START.
000009 STRING AN-1 DELIMITED BY NGetString 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@ : File 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.
JMN3119I-S

The REVERSED phrase can only be specified for a sequential file other than a print file with a FORMAT clause.

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 OPEN INPUT FILE-1 REVERSED.
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.

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: JMN3123I-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.

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.
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**

```cob
[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.
```

The ADVANCING phrase can only be specified for a sequential file.

**Example**

```cob
[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.
```

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 WORKING-STORAGE SECTION.
000012 77 LCD-1 PIC XX.
000013 PROCEDURE DIVISION.
000014 WRITE REC-1 AFTER ADVANCING 40000.
000015 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.
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 SYMBOIC DESTINATION IS "ACM".
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.
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 KEY-REC PIC XX.
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 NEXT.
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 PROCEDURE DIVISION.
000017 READ FILE-1 KEY IS KEY-DATA.
000018 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.
A GO TO statement without a procedure-name must be referred to by an ALTER statement.

Example

```cobol
[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.
```

Identifier @1@ of the GO TO DEPENDING ON statement must be an integer item.

Parameter Explanation

@1@ : Identifier.

Example

```cobol
[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.
```

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@ : 'true expression' or 'false expression'
@2@ : 'boolean item' or 'boolean literal'

Example

```cobol
[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

```cobol
[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

```cobol
[C3154.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3154.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STORAGE SECTION.
000006 01 A PIC 9999.
```

- 537 -
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 01 B PIC 99 VALUE 10.
000008 PROCEDURE DIVISION.
000009 P-START.
000010 INITIALIZE A REPLACING NUMERIC BY 1
000011 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.
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 'TBL'.

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   MOVE 1 TO A.
000015   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.
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.
FILE-CONTROL.
SELECT FILE-1 ASSIGN TO S-SYS001
ORGANIZATION IS INDEXED
ACCESS MODE IS SEQUENTIAL
RECORD KEY IS REC-KEY.
DATA DIVISION.
FILE SECTION.
FD FILE-1.
01 REC-1.
02 REC-KEY PIC XX.
02 FILLER PIC XX.
PROCEDURE DIVISION.
DELETE FILE-1 INVALID KEY GO TO L1.
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3166.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT FILE-1 ASSIGN TO SYS001.
DATA DIVISION.
FILE SECTION.
FD FILE-1.
01 REC-1 PIC X(80).
PROCEDURE DIVISION.
START FILE-1.
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3169.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT FILE-1 ASSIGN TO SYS001
ORGANIZATION IS RELATIVE
ACCESS MODE IS SEQUENTIAL
RELATIVE KEY IS REL-KEY.
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 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.

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).
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.

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.
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**

```cob
[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**

```cob
[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**

```cob
[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).
```
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]
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 CV-CHAR1 PIC XX.
000008 77 CV-CHAR2 PIC X.
000009 PROCEDURE DIVISION.
000010 INSPECT ID1 REPLACING CHARACTERS BY REP-CHAR.
000011 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.
```
ENVIRONMENT DIVISION.

DATA DIVISION.

WORKING-STORAGE SECTION.

01 GR.

02 TBL OCCURS 10 TIMES ASCENDING KEY IS KEY-1
   INDEXED BY INX.

03 KEY-1 PIC X(5).

PROCEDURE DIVISION.

SEARCH ALL TBL

WHEN KEY-1(INX)(1 : 3) = "AAA"

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]

@OPTIONS ENCODE(UTF8,UTF16,LE)

IDENTIFICATION DIVISION.

PROGRAM-ID. C3199.

ENVIRONMENT DIVISION.

CONFIGURATION SECTION.

SPECIAL-NAMES.

ALPHABET U16L FOR NATIONAL UTF16LE

ALPHABET U32L FOR NATIONAL UTF32LE

DATA DIVISION.

WORKING-STORAGE SECTION.

77 ID1      PIC N ENCODING U16L.

77 REP-CHAR PIC N ENCODING U32L.

PROCEDURE DIVISION.

INSPECT ID1 REPLACING CHARACTERS BY REP-CHAR.

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]

IDENTIFICATION DIVISION.

PROGRAM-ID. C3200.

ENVIRONMENT DIVISION.

INPUT-OUTPUT SECTION.

FILE-CONTROL.

SELECT FILE-1 ASSIGN TO SYS001

ORGANIZATION IS INDEXED
ACCESS MODE IS RANDOM

DATA DIVISION.

FILE SECTION.

FD FILE-1.

01 REC-1.

02 KEY-REC PIC XX.

02 FILLER PIC X(78).

PROCEDURE DIVISION.

OPEN EXTEND FILE-1.

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.

- 550 -
C3203.cob 13: JMN3203-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.

JMN3207-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 "/*" INTO B DELIMITER IN C.

C3207.cob 12: JMN3207-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.

JMN3218-I-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 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.
A 'RELATIVE KEY' clause must be specified for relative file 'FILE-1'.

(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

```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.
00010 01 X PIC 9(2) BINARY.
00011 01 Y PIC 9(2) BINARY.
00012 01 Z PIC 9(2) BINARY.
00013 PROCEDURE DIVISION.
00014 PERFORM L1 VARYING A FROM B BY C UNTIL A = B 
00015                AFTER   X FROM Y BY Z UNTIL X = Y.
00016  L1.
00017     STOP RUN.
```

A alphabetic check is specified. Lowercase alphabetic characters are considered to belong to the alphabetic class.

Example

```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.
```

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
(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),LANGLEVEL(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-REC1    PIC X(100).
000013 FD   GV-FILE.
000014  01 GV-REC1    PIC X(75).
000015 SD   SD-FILE.
000016  01 SD-REC.
000017  02 SD-KEY1    PIC X(5).
000018  02 FILLER    PIC X(75).
PROCEDURE DIVISION.
SORT SD-FILE ASCENDING KEY SD-KEY1 USING US-FILE GIVING GV-FILE.
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3240.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 A PIC S9(3) PACKED-DECIMAL.
PROCEDURE DIVISION.
P-START.
00009 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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3241.
ENVIRONMENT DIVISION.

- 555 -
DATA DIVISION.
WORKING-STORAGE SECTION.
 01 A PIC S9(3) PACKED-DECIMAL.
PROCEDURE DIVISION.
P-START.
IF A = "AB" STOP RUN.

C3241.cob 9: JMN3241-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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3242.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
 01 A PIC N(10).
PROCEDURE DIVISION.
P-START.
IF "AB" = A STOP RUN.

C3242.cob 9: JMN3242-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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3243.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
 01 A PIC N(10).
PROCEDURE DIVISION.
P-START.
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.
     02 CC-1      PIC X(4).
     02 CC-2      PIC X(4).
000010 01  BB.
     02 CC-1      PIC X(4).
     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-REC1    PIC X(80).
   000013 FD GV-FILE.
   000014 01 GV-REC1    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
```
GIVING GV-FILE.
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
**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 COLLECTING SEQUENCE phrase cannot be specified.*

**Parameter Explanation**

@1@ : 'SORT' or 'MERGE'.

**Example**

[C3265.cob]

00001 IDENTIFICATION DIVISION.
00002 PROGRAM-ID. C3265.
00003 ENVIRONMENT DIVISION.
00004 CONFIGURATION SECTION.
00005 SPECIAL-NAMES.
00006   ALPHABET ABN-1 IS "A" THRU "Z".
00007 INPUT-OUTPUT SECTION.
00008 FILE-CONTROL.
00009   SELECT US-FILE ASSIGN TO SYS001-DA-S-SYS001.
00010   SELECT GV-FILE ASSIGN TO SYS002-DA-S-SYS002.
00011   SELECT SD-FILE ASSIGN TO SYS003-DA-S-SYS003.
00012 DATA DIVISION.
00013 FILE SECTION.
00014 FD US-FILE.
00015  01 US-REC1 PIC X(80).
00016 FD GV-FILE.
00017  01 GV-REC1.
00018     02 RKEY-1 PIC XX.
00019     02 AKEY-1 PIC XX.
00020     02 AKEY-2 PIC XX.
00021     02 AKEY-3 PIC XX.
00022     02 FILLER PIC X(72).
00023 PROCEDURE DIVISION.
00024  SORT SD-FILE ASCENDING KEY SD-KEY3 USING US-FILE GIVING GV-FILE.
00025 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
PROCEDURE DIVISION.
SEARCH ALL TBL-2
WHEN A(INX) = 1
STOP RUN.

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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3269.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT OU-FILE ASSIGN TO DA-S-SYS006.
DATA DIVISION.
FILE SECTION.
FD OU-FILE LABEL RECORD STANDARD
REPORT IS RE-1.
WORKING-STORAGE SECTION.
01 REP-LINE PIC X(8).
REPORT SECTION.
RD RE-1
PAGE LIMITS 66 LINES
HEADING 3
FIRST DETAIL 10
LAST DETAIL 50.
TYPE RH LINE 5.
02 COLUMN 25 PIC X(8)
SOURCE REP-LINE.
TYPE PH LINE 7.
02 COLUMN 25 PIC X(8)
VALUE "REPORT-1".
TYPE DE LINE PLUS 1.
02 COLUMN 25 PIC X(8)
VALUE "REPORT-2".
PROCEDURE DIVISION.
P-START.
OPEN OUTPUT OU-FILE.
INITIATE RE-1.
GENERATE RE-1.
TERMINATE RE-1.
CLOSE OU-FILE.
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 01 RE-1 TYPE DETAIL LINE PLUS 1.
000015 02 COLUMN 25 PIC X(80)
000016 VALUE "REPORT-1".
000017 PROCEDURE DIVISION.
000018 P-START.
000019 OPEN OUTPUT LP1FILE.
000020 GENERATE RE-1.
000021 TERMINATE RE-1.
000022 CLOSE LP1FILE.
000023 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.
C3271.cob 25: JMN32711-S Report-name 'RE-1' is specified in a GENERATE statement must have one or more body groups in its report description entry.

JMN32721-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  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 RE-1.
000026  TERMINATE RE-1.
000027  CLOSE LP1FILE.
000028  STOP RUN.
CLOSE LP1FILE.
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 5 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.

**JMN3275I-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.
```
C3277.cob 11: JMN32771-S Identifier 'C' of a INTO phrase in an UNSTRING statement cannot be an external floating-point item.

JMN32781-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: JMN32781-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.

JMN32801-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

JMN32811-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.
The numeric literal '-0' is specified as a sending item in a MOVE statement. '+0' is assumed.

@1@ must be defined in the BASED-STORE SECTION.

Parameter Explanation
@1@ : Identifier.

Example
[C3286.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3286.
000003 ENVIRONMENT DIVISION.
000004 DATA DIVISION.
000005 WORKING-STOREAGE SECTION.
000006 01 A PIC X.
000007 01 PTR USAGE IS POINTER.
000008 PROCEDURE DIVISION.
000009 MOVE "A" TO PTR->A.
000010 STOP RUN.

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-STOREAGE 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.

Argument 'B1' cannot be specified to FUNCTION ADDR.
Argument 'B2' cannot be specified to FUNCTION ADDR.

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.
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 CONTROL RECORD IS CNTL-REC.
000011 01 CNTL-REC PIC X(80).
000012 WORKING-Storage SECTION.
000013 01 FMT-001 PIC X(8).
000014 WRITE CNTL-REC AFTER ADVANCING 1.
000015 END PROGRAM C3298.

C3298.cob 16: JMN3301I-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).
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.
### 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.

**JMN3327I-W**

When numeric literal is moved to 'A1' 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.

### C3328.cob

000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3328.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 A1 PIC 99.
000006 01 A2 PIC 99.
000007 PROCEDURE DIVISION.
000008 MOVE 100 TO A1.
000009 END PROGRAM C3328.

**JMN3328I-W**

When a numeric literal is moved to @2@ in the @1@ statement, digit overflow may occur.

**Explanation**

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 01 A2 PIC 99.
000007 PROCEDURE DIVISION.
000008 MOVE 100 TO A1.
000009 END PROGRAM C3328.

**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.

JMN33321-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.
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.
```

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.
```
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 IDENTIFICATION DIVISION.
000010 PROGRAM-ID. SUB.
000011 DATA DIVISION.
000012 LINKAGE SECTION.
000013 01 B PIC X(05).
000014 PROCEDURE DIVISION.
000015 USING B.
000016 EXIT PROGRAM.
000017 END PROGRAM SUB.
000018 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@ : ANSI585

Example

[C3339.cob]
000001 @OPTIONS CONF(OBS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3339.
000004 DATA DIVISION.
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.
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 89(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@ :
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.
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".
DATA DIVISION.
FILE SECTION.
FD F1.
    01 REC1.
       02 KY1   PIC X(2).
       02       PIC X(78).
PROCEDURE DIVISION.
UNLOCK F1.
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3359.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
 01 A    PIC S9(4)V9(4) BINARY.
 01 B    PIC S9(8) PACKED-DECIMAL.
 01 C    PIC X(8).
 01 D    PIC S9(8)V9(8) BINARY.
PROCEDURE DIVISION.
P-START.
    COMPUTE D = FUNCTION MAX (A , B , C).
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3361.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
 01 A    PIC S9(18) BINARY.
PROCEDURE DIVISION.
P-START.
    COMPUTE A = FUNCTION NUMVAL
                (" 1234567890.123456789").
END PROGRAM C3361.

C3361.cob 9: JMN3361I-S The numeric parts of the argument of FUNCTION NUMVAL cannot exceed 18 digits.
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.

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.

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.
```

- 586 -
DATA DIVISION.
FD FILE-1.
 01 WRTREC.
   02 WRT-1   PIC S9(8) BINARY.
   02 WRT-2   PIC X(72).
WORKING-STORAGE SECTION.
 01 A    PIC X(4).
PROCEDURE DIVISION.
P-START.
  OPEN OUTPUT FILE-1.
  WRITE WRTREC FROM FUNCTION LENGTH(A).
  CLOSE FILE-1.
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3371.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-Storage SECTION.
  CHAR S PIC X(1) VALUE "4".
  I      PIC 9(2).
PROCEDURE DIVISION.
P-START.
  INSPECT FUNCTION INTEGER-OF-DAY(5)
    TALLYING I FOR ALL CHARs.
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3372.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-Storage SECTION.
  RCV    PIC 9(5).
  DATA-A PIC X(20) VALUE "ABC".
PROCEDURE DIVISION.
MOVE FUNCTION LENGTH(DATA-A) TO RCV  *> ERROR
COMPUTE RCV = FUNCTION LENGTH(DATA-A)  *> OK
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.
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.
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-STOREAGE 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-STOREAGE 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

```cob
[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

```cob
[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

```cob
[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).
```

- 591 -
PROCEDURE DIVISION.
P-START.
    COMPUTE RCV = FUNCTION MAX(A B).
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3383.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 A PIC A(10).
01 B PIC S9(8) BINARY.
PROCEDURE DIVISION.
    COMPUTE B = FUNCTION NUMVAL(A).
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]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3384.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 TB.
   02 T1 PIC X(3).
   02 T2 PIC S9(5).
01 B PIC S9(8) BINARY.
PROCEDURE DIVISION.
    COMPUTE B = FUNCTION NUMVAL(TB).
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

```cob
[C3385.cob]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3385.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 A PIC S9(8) BINARY.
01 I PIC S9(2)V9(2) BINARY.
PROCEDURE DIVISION.
000009 PERFORM VARYING I FROM FUNCTION RANDOM BY 0.1
UNTIL I > 5
000011 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**

```cob
[C3386.cob]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3386.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 A COMP-2 VALUE +3.5.
01 RCV PIC S9(4) BINARY.
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**

```cob
[C3388.cob]
IDENTIFICATION DIVISION.
PROGRAM-ID. C3388.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 A PIC S9(8) BINARY.
01 B PIC S9(4) BINARY.
01 C PIC X(1).
PROCEDURE DIVISION.
000009 ADD A B TO C.
000010 CALL "SUBPROG" USING A B C.
00001010 EXIT PROGRAM.
IDENTIFICATION DIVISION.
PROGRAM-ID. SUBPROG.
```

**JMN3388I-S**
The WITH phrase cannot be specified in a PROCEDURE DIVISION of a contained program or a CALL statement for a contained program.
C388.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**

```cob
 IDENTIFICATION DIVISION.
 PROGRAM-ID. C3390.
 DATA DIVISION.
 WORKING-STORAGE SECTION.
 01 A     PIC S9(8) BINARY.
 01 B     PIC S9(4) BINARY.
 01 C     PIC X(1).
 PROCEDURE DIVISION.
 CALL "SUBPROG" WITH PASCAL LINKAGE USING A B C.
 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**

```cob
 IDENTIFICATION DIVISION.
 PROGRAM-ID.  C3392.
 DATA DIVISION.
 WORKING-STORAGE SECTION.
 01 A     PIC X(8).
 01 B     PIC X(2).
 PROCEDURE DIVISION.
 ACCEPT A WITH PROMPT B.
 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.
@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

```cob
[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

```cob
[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

```cob
[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
```
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-STOREAGE 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-STOREAGE SECTION.
000007 01 A PIC X(4).
000008 01 B PIC X(4).
000009 PROCEDURE DIVISION.
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 PROCEDURE DIVISION.
000009      DISPLAY REC-1 UPON CRT.
000010   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-STOREGE 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.

JMN34011-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: JMN34011-S BELL of the ACCEPT statement cannot be specified as a group item.
C3401.cob 10: JMN34011-S BELL of the DISPLAY statement cannot be specified as a group item.
C3401.cob 10: JMN34011-S BLANK LINE of the DISPLAY statement cannot be specified as a group item.

JMN34021-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 99.99.
000007 01  C     PIC 99.99.
000008 PROCEDURE DIVISION.
```
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* 000013 INVOKE C3408 "FM1".
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: 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.
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'.

**JMN34211I-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.
```
C3421-C.cob 23: JMN3421I-S In-line invocation method 'C3421-M' does not have a RETURNING phrase. Figurative constant zero is assumed.

**JMN3421I-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-STOREAGE 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-STOREAGE 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-STOREAGE 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-STOREAGE 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-STOREAGE 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-STOREAGE 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.
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.

BY REFERENCE phrase items, RETURNING phrase items in an INVOKE statement, and argument items of in-line invocation cannot be reference modified.

Example

```cob
[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.

Moving all literals of two or more characters to a numeric item or a numeric edited item is an obsolete feature in ANSI COBOL.

Parameter Explanation

@1@: ANSI85

Example

```cob
[C3433.cob]
000001 CLASS-ID. C3433.
000002 ENVIRONMENT DIVISION.
000003 CONFIGURATION SECTION.
000004 REPOSITORY.
000005*  OBJECT.
000006*  DATA DIVISION.
000007*  WORKING-STORAGE SECTION.
000008*    PROCEDURE DIVISION.
000009*    METHOD-ID. C3433-M.
000010*    DATA DIVISION.
000011*    WORKING-STORAGE SECTION.
000012*    01 D908 PIC 9(8).
000013*    01 D008 PIC 9(8).
000014*    LINKAGE SECTION.
000015*    PROCEDURE DIVISION.
000016*    MOVE ALL '40' TO D908.
```
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 IF ALL '40' = D908
000014   DISPLAY "SAME"
000015 END-IF
000016 END METHOD C3434-M.
000017 END OBJECT.
000018 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

```cob
[C3436.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. C3436.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000040 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

```cob
[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. METHODI.
000012 DATA DIVISION.
000013 LINKAGE SECTION.
000014 01 OBJ2 OBJECT REFERENCE C3437.
000015 PROCEDURE DIVISION RETURNING OBJ2.
000016 IF SELF::"METHODI" = NULL THEN
000017   EVALUATE OBJ1 OF SELF
000018     WHEN NULL
000019       DISPLAY "NULL"
000020     WHEN OTHER
000021       DISPLAY "OTHER"
000022   END-EVALUATE
000023   END-IF.
000024 END METHOD METHODI.
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

```cobol
000001 CLASS-ID. C3440.
000002 FACTORY.
000003 PROCEDURE DIVISION.
000005 METHOD-ID. M3440-M1.
000006 DATA DIVISION.
000007 WORKING-STORAGE SECTION.
000009 01 FPRM PIC X  ANY LENGTH.
000010 PROCEDURE DIVISION USING FPRM.
000011     DISPLAY FPRM.
000012 END METHOD M3440-M1.
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.
000024 END FACTORY.
000025 END CLASS C3440.
```

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

```cobol
[C3441.cob]
000001 CLASS-ID. C3441.
000002 FACTORY.
000003 PROCEDURE DIVISION.
```
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-STOREAGE 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*
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.
```
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-HELP 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.
OBJECT.
PROCEDURE DIVISION.
METHOD-ID. _FINALIZE OVERRIDE.
PROCEDURE DIVISION.
     EXIT METHOD RAISING C3449.
END METHOD _FINALIZE.
END OBJECT.
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.
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.

**JMN34531-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: JMN34531-S The OMITTED phrase can only be specified for a parameter of a COM server method that has an optional attribute.

**JMN34541-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.
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.

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     DISPLAY  N20.
000014     DISPLAY  INTD.
000015     DISPLAY  UCS2-OF (INTD).
000016     EXIT PROGRAM.
000017 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 IDENTIFICATION DIVISION.
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.
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.
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   01 A TYPEDEF STRONG.
000025   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.

JMN34711-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

[JMN34711-W.cob]
000001 @OPTIONS RCS(UTF16)
000002 PROGRAM-ID. JMN34711-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 JMN34711-W.

JMN34711-W.cob 24: JMN34711-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.
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.

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.
```
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.
```

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.
```

@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.

**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
```
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/Doubles 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 9(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.
```

- 632 -
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**

<table>
<thead>
<tr>
<th>C3535.cob</th>
</tr>
</thead>
<tbody>
<tr>
<td>000001 @OPTIONS RCS(UTF16)</td>
</tr>
<tr>
<td>000002 IDENTIFICATION DIVISION.</td>
</tr>
<tr>
<td>000003 PROGRAM-ID. C3535.</td>
</tr>
<tr>
<td>000004 ENVIRONMENT DIVISION.</td>
</tr>
<tr>
<td>000005 CONFIGURATION SECTION.</td>
</tr>
<tr>
<td>000006 DATA DIVISION.</td>
</tr>
<tr>
<td>000007 WORKING-STORAGE SECTION.</td>
</tr>
<tr>
<td>000008 01 DATA-1 PIC 9(10).</td>
</tr>
<tr>
<td>000009 01 DATA-2 PIC N(10).</td>
</tr>
<tr>
<td>000010 PROCEDURE DIVISION.</td>
</tr>
<tr>
<td>000011 MOVE FUNCTION NATIONAL-OF ( DATA-1 ) TO DATA-2.</td>
</tr>
<tr>
<td>000012 EXIT PROGRAM.</td>
</tr>
<tr>
<td>000013 END PROGRAM C3535.</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>C3536.cob</th>
</tr>
</thead>
<tbody>
<tr>
<td>000001 @OPTIONS RCS(UTF16)</td>
</tr>
<tr>
<td>000002 IDENTIFICATION DIVISION.</td>
</tr>
<tr>
<td>000003 PROGRAM-ID. C3536.</td>
</tr>
<tr>
<td>000004 ENVIRONMENT DIVISION.</td>
</tr>
<tr>
<td>000005 DATA DIVISION.</td>
</tr>
<tr>
<td>000006 WORKING-STORAGE SECTION.</td>
</tr>
<tr>
<td>000007 01 A PIC X(8).</td>
</tr>
<tr>
<td>000008 01 B PIC N(8).</td>
</tr>
<tr>
<td>000009 PROCEDURE DIVISION.</td>
</tr>
<tr>
<td>000010 P-START.</td>
</tr>
<tr>
<td>000011 MOVE FUNCTION NATIONAL-OF ( A N# # ) TO B.</td>
</tr>
<tr>
<td>000012 END PROGRAM C3536.</td>
</tr>
</tbody>
</table>

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.**

- 633 -
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 S99(9) COMP-5.
000009 01 DATA3 PIC N15.
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 DATA22 PIC S99(9) COMP-5.
000009 02 DATA21R REDEFINES DATA21 PIC 99(9).
000010 02 DATA22 PIC N5.
000011 01 DATA3 PIC N15.
000012 PROCEDURE DIVISION.
000013 STRING DATA1 DATA2 DATA3 INTO RCV
000014 BY TSV-FORMAT.
000015 END-STRING.
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).
PROCEDURE DIVISION.
    STRING DATA1 DATA2 DATA3 INTO RCV
    BY TSV-FORMAT
    WITH POINTER DATAP
    END-STRING.
    .
END PROGRAM C3554.

C3554.cob 13: JMN3554-I-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.

JMN3555-I-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: JMN3555-I-S FUNCTION UPPER-CASE cannot be specified in STRING statement with CSV-FORMAT or TSV-FORMAT.

JMN3557-I-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-S PROPERTY.
000007 PROCEDURE DIVISION.
[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: JMN3557-I-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.
PROCEDURE DIVISION.
       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

<table>
<thead>
<tr>
<th>[C3562.cob]</th>
</tr>
</thead>
<tbody>
<tr>
<td>000001 @OPTIONS ENCODE(UTF8,UTF16,LE)</td>
</tr>
<tr>
<td>000002 IDENTIFICATION DIVISION.</td>
</tr>
<tr>
<td>000003 PROGRAM-ID. C3562.</td>
</tr>
<tr>
<td>000004 ENVIRONMENT DIVISION.</td>
</tr>
<tr>
<td>000005 CONFIGURATION SECTION.</td>
</tr>
<tr>
<td>000006 SPECIAL-NAMES.</td>
</tr>
<tr>
<td>000007 ALPHABET U16L FOR NATIONAL UTF16LE</td>
</tr>
<tr>
<td>000008 ALPHABET U32L FOR NATIONAL UTF32LE</td>
</tr>
<tr>
<td>000009 .</td>
</tr>
<tr>
<td>000010 DATA DIVISION.</td>
</tr>
<tr>
<td>000011 WORKING-STORAGE SECTION.</td>
</tr>
<tr>
<td>000012 01 TBL.</td>
</tr>
<tr>
<td>000013 02 X OCCURS 5 TIMES ASCENDING KEY IS A INDEXED BY IX1.</td>
</tr>
<tr>
<td>000014 03 A PIC N(8) ENCODING U16L.</td>
</tr>
<tr>
<td>000015 01 B PIC N(8) ENCODING U32L.</td>
</tr>
<tr>
<td>000016 02 SEARCH ALL X CONTINUE END-SEARCH.</td>
</tr>
<tr>
<td>000017 END PROGRAM C3562.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>[C3563.cob]</th>
</tr>
</thead>
<tbody>
<tr>
<td>000001 @OPTIONS ENCODE(UTF8,UTF16,LE)</td>
</tr>
<tr>
<td>000002 IDENTIFICATION DIVISION.</td>
</tr>
<tr>
<td>000003 PROGRAM-ID. C3563.</td>
</tr>
<tr>
<td>000004 ENVIRONMENT DIVISION.</td>
</tr>
<tr>
<td>000005 CONFIGURATION SECTION.</td>
</tr>
<tr>
<td>000006 SPECIAL-NAMES.</td>
</tr>
<tr>
<td>000007 ALPHABET U16L FOR NATIONAL UTF16LE</td>
</tr>
<tr>
<td>000008 ALPHABET U32L FOR NATIONAL UTF32LE</td>
</tr>
<tr>
<td>000009 .</td>
</tr>
</tbody>
</table>
**JMN3564I-S**

**Different encoding cannot be given for the move of multiple data items.**

**Example**

[C3564.cob]

```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]

```cob
000001 @OPTIONS ENCODE(UTF8,UTF32)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C3565I-S.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006   SPECIAL-NAMES.
000007     ALPHABET UTF16L FOR NATIONAL UTF16LE.
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
```

**C3565I-S.cob 15: JMN3565I-S When compilation option RCS(UTF16) or ENCODE is specified, cannot be specified in a WRITE statement for a print file. is different from the encoding of the print file.**

---

- 639 -
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.
WORKING-STORAGE SECTION.
01 GRP-DATA.
02 X-DATA-1 PIC X(5) VALUE "UTF-8".
02 N-DATA-2 PIC N(6) ENCODING UTF32B VALUE NC"UTF-32".
02 RCV PIC N(30).
PROCEDURE DIVISION.
MOVE FUNCTION NATIONAL(GRP-DATA) TO RCV
DISPLAY RCV
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-STOREAGE 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-STOREAGE SECTION.
000006 01 N08 PIC N(8).
000007 01 X08 PIC X(8).
000008 PROCEDURE DIVISION.
000009 MOVE CONVERSION XD8 TO N08.
000010 END PROGRAM C3569.
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.
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.

JMN50011-S

Method '@1@' is defined multiple times. The method-name must be unique in @3@ '@2@'.

- 643 -
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.

JMN50021-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.
DISPLAY "ORIGINAL MO1".
END METHOD MO1.
IDENTIFICATION DIVISION.
METHOD-ID. MO1 OVERRIDE.
DATA DIVISION.
PROCEDURE DIVISION.
DISPLAY "MO1 OVERRIDE".
END METHOD MO1.
END OBJECT.
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]
IDENTIFICATION DIVISION.
CLASS-ID. C5005C.
ENVIRONMENT DIVISION.
IDENTIFICATION DIVISION.
METHOD-ID. MO2 PROTOTYPE.
END METHOD MO2.
END OBJECT.
END CLASS C5005C.

[C5005.cob]
IDENTIFICATION DIVISION.
METHOD-ID. C5005 OF C5005C.
ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
REPOSITORY.
CLASS C5005C.
DATA DIVISION.
PROCEDURE DIVISION.
DISPLAY "METHOD OF CHILD CLASS".
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

```cob
[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

```cob
[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.
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 "PROC1"
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.

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

```cob
[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-STOREAGE 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-STOREAGE 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-STOREAGE 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-STOREAGE SECTION or LINKAGE SECTION. The USAGE OBJECT REFERENCE clause is ignored.

Explanation

The USAGE OBJECT REFERENCE clause cannot be specified in the BASED-STOREAGE 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 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.
```

- 650 -
C5105.cob 15: JMN5105I-W A condition-name cannot 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]
00001 IDENTIFICATION DIVISION.
00002 CLASS-ID. C5108.
00003 ENVIRONMENT DIVISION.
00004 IDENTIFICATION DIVISION.
00005 OBJECT.
00006 DATA DIVISION.
00007 WORKING-STORAGE SECTION.
00008 01 AA.
00009  02 BB.
00010   03 PROP1 PROPERTY OCCURS 3 TIMES PIC X(8).  
00011   01 CC .
00012   02 DD OCCURS 2 TIMES.
00013   03 PROP2 PIC X(8) PROPERTY.
00014 PROCEDURE DIVISION.
00015 IDENTIFICATION DIVISION.
00016 METHOD-ID. M01.
00017 DATA DIVISION.
00018 WORKING-STORAGE SECTION.
00019 01 OBR1 USAGE OBJECT REFERENCE.
00020 PROCEDURE DIVISION.
00021 END METHOD M01.
00022 END OBJECT.
00023 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.
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

```cob
[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.
```

JMN5110I-S

The data-name in the RENAMES clause or in the THROUGH phrase cannot have a @1@ clause, or cannot be subordinate to a data item with a @1@ clause. The RENAMES clause is ignored.

Parameter Explanation

@1@ : USAGE OBJECT REFERENCE

Example

```cob
[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 RENAMES B1 THROUGH B3.
000010 PROCEDURE DIVISION.
000011 END PROGRAM C5110.
```

JMN5111I-S

The data-name in the RENAMES 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 RENAMES clause is ignored.
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.
```

CS111.cob 14: JMNS1111-S The USAGE OBJECT REFERENCE SELF clause can only be specified in a FACTORY definition or a FACTORY method definition. SELF is ignored.

CS111.cob 20: JMNS1111-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.

JMNS1121-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.
```
CS112.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.

CS112.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.

CS112.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.

CS112.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.
The LINAGE clause cannot be specified in DATA DIVISION of a factory definition or object definition. The LINAGE clause is ignored.

Explanation

The LINAGE clause can be specified in the data division of the method definition.

JMN5114I-S

The @@ clause cannot be specified in an item with an OCCURS DEPENDING ON clause. The OCCURS DEPENDING ON clause is ignored.

Parameter Explanation

@@ : 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 @@ clause cannot be subordinate to a data item with an OCCURS DEPENDING ON clause. It is accepted as written.

Parameter Explanation

@@ : 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
```
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.
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.
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.

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

```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 OBIA USAGE OBJECT REFERENCE.
000008 PROCEDURE DIVISION.
000009 END PROGRAM P5118.
```

The PROPERTY clause can only be specified for the item that is unique with no qualifiers. The PROPERTY clause is ignored.

Parameter Explanation

@1@ : PROPERTY

Example

```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. MO1.
000017 DATA DIVISION.
000018 WORKING-STORAGE SECTION.
000019 01 OBR1 USAGE OBJECT REFERENCE.
000020 PROCEDURE DIVISION.
000021 DISPLAY PROP1 OF OBR1.
000022 END METHOD MO1.
000023 END OBJECT.
000024 END CLASS C5119.
```
CS119.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.

CS119.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

```cob
[C5120.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. CS120.
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 M01.
000017 END OBJECT.
000018 END CLASS CS120.
```

CS120.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

```cob
[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.
```

PS121.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 FACTORY OF SELF 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 DEPENDING ON PM-DEP1.
000013 END FACTORY.
000014 OBJECT.
000015 DATA DIVISION.
000016 WORKING-STORAGE SECTION.
000017 01 PM-DEP2 PIC S9(4) BINARY DEPENDING ON PM-DEP2.
000018 CONSTANT SECTION.
000019 01 CS1 PIC N(10) CHARACTER TYPE PM3 PM2 PM1 DEPENDING ON PM-DEP2 VALUE NC*CONST*.
000020 END OBJECT.
000021 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.
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 IM1.
000025 END OBJECT.
000026 END CLASS C5126.

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.
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 PRODCT-NAME 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.
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]
00001 IDENTIFICATION DIVISION.
00002 CLASS-ID.      C5130.
00003 ENVIRONMENT DIVISION.
00004 CONFIGURATION SECTION.
00005 REPOSITORY.
00006 IDENTIFICATION DIVISION.
00007 OBJECT.
00008 ENVIRONMENT DIVISION.
00009 DATA DIVISION.
00010 WORKING-Storage SECTION.
00011 PROCEDURE DIVISION.
00012 IDENTIFICATION DIVISION.
00013 METHOD-ID.     M5130.
00014 ENVIRONMENT DIVISION.
00015 DATA DIVISION.
00016 LINKAGE SECTION.
00017 01 LK1     ANY LENGTH.
00018 PROCEDURE DIVISION
00019 USING LK1.
00020 END METHOD     M5130.
00021 END OBJECT.
00022 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.
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**

```cob
[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.
```

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**

```cob
[C5134.cob]
000001 IDENTIFICATION DIVISION.
```
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).
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

```cobol
[PS137.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. PS137.
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 PS137.
```

PS137.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

```cobol
[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

- 668 -
Example

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P5140.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 A TYPE B.
01 B.
   02 B1 PIC S9(9) BINARY.
   02 B2 PIC X(1024).
PROCEDURE DIVISION.
STOP RUN.
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

```cob
IDENTIFICATION DIVISION.
PROGRAM-ID. P5141.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 X TYPEDEF TYPE X.
01 A TYPEDEF.
   02 A1 PIC S9(9) BINARY.
   02 A2 TYPE B.
01 B TYPEDEF.
   02 B1 PIC S9(9) BINARY.
   02 B2 TYPE C.
01 C TYPEDEF.
   02 C1 PIC S9(9) BINARY.
   02 C2 TYPE A.
PROCEDURE DIVISION.
STOP RUN.
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.
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

```cob
IDENTIFICATION DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 A TYPEDEF.
  02 A1 PIC S9(9).
  02 A2 PIC X(80).
01 GRP1 .
  02 USAGE BINARY.
    03 B1 TYPE A.
    03 B2 PIC S9(9).
  02 SIGN TRAILING.
    03 C1 TYPE A.
PROCEDURE DIVISION.
STOP RUN.
END PROGRAM P5142.
```

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

```cob
PROGRAM-ID. P5143.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 VCHR TYPEDEF.
  02 LENG PIC S9(9).
  02 XCHR PIC X(80).
  02 NCHR CHARACTER TYPE MODE-1
    PIC N(40).
  01 ADDR TYPE VCHR.
PROCEDURE DIVISION.
STOP RUN.
END PROGRAM P5143.
```

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.
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     06 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.

---

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.

---

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 RESERV 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 RESERV 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.
```

PS150.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 PIC S9(4) BINARY.
000009   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.
```
PROCEDURE DIVISION.
    MOVE ZERO TO METDATA.
    EXIT METHOD.
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]
IDENTIFICATION DIVISION.
PROGRAM-ID.      P5152.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 STY TYPEDEF STRONG
   02 ITEM11    PIC X(20).
   02 ITEM12    PIC S9(9) BINARY.
01 DATA1       TYPE  STY2 VALUE SPACE.
   02 ITEM2     PIC X(20).
   02 ITEM3     PIC X(20).
   02 ITEM3R  REDEFINES ITEM3.
      03 ITEM31  PIC X(10).
      03 ITEM32  TYPE STY2 VALUE SPACE.
PROCEDURE DIVISION.
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]
IDENTIFICATION DIVISION.
PROGRAM-ID.      P5153.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 STY1 TYPEDEF STRONG.
   02 ITEM11    PIC X(20) VALUE SPACE.
   02 ITEM12    PIC S9(9) BINARY.
01 DATA1       TYPE  STY2 VALUE SPACE.
   02 ITEM2     PIC X(20).
   02 ITEM3     PIC X(20).
   02 ITEM3R  REDEFINES ITEM3.
      03 ITEM31  PIC X(10).
      03 ITEM32  TYPE STY2 VALUE SPACE.
PROCEDURE DIVISION.
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.
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-STOREAGE SECTION. A weakly typed item is assumed.**

**Example**

```cober
[000001 IDENTIFICATION DIVISION.
  000002 PROGRAM-ID. P5154.
  000003 ENVIRONMENT DIVISION.
  000004 DATA DIVISION.
  000005 BASED-STOREAGE SECTION.
  000006 01 DATA1 TYPE STY1.
  000007 WORKING-STOREAGE SECTION.
  000008 01 STY1 TYPEDEF STRONG.
  000009 02 ITEM1 PIC X(4) .
  000010 02 ITEM2 PIC X(4).
  000011 PROCEDURE DIVISION.
  000012 END PROGRAM P5154.]
```

A strongly typed item cannot be defined in the BASED-STOREAGE 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-STOREAGE 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**

```cober
[000001 IDENTIFICATION DIVISION.
  000002 PROGRAM-ID. P5155.
  000003 ENVIRONMENT DIVISION.
  000004 DATA DIVISION.
  000005 WORKING-STOREAGE SECTION.
  000006 01 STY1 TYPEDEF STRONG.
  000007 02 ITEM1 PIC X(4) .
  000008 02 ITEM2 PIC X(4).
  000009 01 DATA1.
  000010 02 DATA2 TYPE STY1.
  000011 PROCEDURE DIVISION.
  000012 END PROGRAM P5155.]
```

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.
A strongly typed item is a data description entry that specifies the TYPE clause that refers to type declaration (TYPEDEF) with a STRONG phrase.

**JMNS157I-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 STY1 TYPEDEF STRONG.
000007 02 TYP1 TYPEDEF.
000008 01 T1         PIC X(10).
000010 PROCEDURE       DIVISION.
000011 END PROGRAM     P5157.
```

P5157.cob 7:JMNS157I-S The TYPEDEF clause has a STRONG phrase that cannot be specified with a TYPE clause. The STRONG phrase is ignored.

**JMNS158I-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

```cobol
[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 SQFREC.
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.
```

PS5158.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

```cobol
[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 SQ1REC1.
000015   02 PIC X(8D).
000016 01 SQ1REC2.
000017   02 PIC N(4D).
000018 WORKING-STORAGE SECTION.
000019   01 WFS1 PIC X(2).
```
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.
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

```cobol
[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

```cobol
[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: JMN5501I-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

```cobol
[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 RETURNING LK2.
000016 END METHOD M5504.
000017 END OBJECT.
000018 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 03 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.
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.
```

- 685 -
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.

- 686 -
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 M01.
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.
**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 USING LK1 RETURNING LK1.
000016 DISPLAY "PARAMETER ERROR".
000017 END METHOD M5516.
000018 END OBJECT.
000019 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.
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

[C5521.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.
**CS522.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**

```cob
[5525.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.
```

**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**

```cob
[5526.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P5526.
000003 DATA DIVISION.
000004 WORKING-STORAGE SECTION.
000005 01 WOB P USAGE OBJECT REFERENCE.
000006 PROCEDURE DIVISION.
000007 INVOKE WOB L5526.
000008 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 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. METHODO1.
000008 DATA DIVISION.
000009 LINKAGE SECTION.
000010 01 LKD1 POINTER.
000011 PROCEDURE DIVISION
000012 RETURNING LKD1.
000013 END METHOD METHODO1.
000014 END OBJECT.
000015 END CLASS C5528.
```

C5528.cob 12: JMN5528I-S A pointer data item cannot 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.
```
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

```cob
[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

```cob
[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

```cob
[C5536A.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID C5536A.
```
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.
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**

```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.
```

The PROCEDURE DIVISION of a get property or set property method is missing a required parameter. 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).
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.

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 '::').

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.
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.

**JMN55411-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: JMN55411-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.

**JMN55421-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     MOVE SELF :: "M5542" (NULL :: "NEW") TO WRT.
000020     RETURNING LK2.
000021 END METHOD M5542.
000022 END OBJECT.
000023 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      C5546A.

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.
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**

```cob
[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.
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 01 WPR1        PIC X(08).
000007 01 WRT         PIC X(08).
000008 PROCEDURE      DIVISION.
000009     INVOKE WOBR "M5552" RETURNING WRT
000010                         USING     WPR.
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

```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.

JMN5556I-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

```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 WOBR OBJECT REFERENCE C5556.
000010 PROCEDURE DIVISION.
000011* 000012 INVOKE WOBR::"M5556A" "M5556B".
000013* 000014 INVOKE WOBR::"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.
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 PROEDURE DIVISION.
000010 IDENTIFICATION DIVISION.
000011 METHOD-ID. M5560.
000012 DATA DIVISION.
000013 WORKING-STORAGE SECTION.
000014 01 WX PIC X(4).
000015 01 WX PIC X(4).
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

- 711 -
RETURNING LX2.
SET WPX TO ADDRESS OF SELF :: "M5563"(LX1).
END METHOD M5563.
END OBJECT.
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.
IDENTIFICATION DIVISION.
PROGRAM-ID. P5565.
ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
REPOSITORY.
CLASS C5565.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT REPFILE ASSIGN TO SYS001.
DATA DIVISION.
FILE SECTION.
FD REPFILE REPORT IS REP1.
WORKING-STORAGE SECTION.
01 YYMMDD PIC X(6).
01 YYYYMMDD PIC X(8).
01 WOBR OBJECT REFERENCE C5565.
REPORT SECTION.
FIRST DETAIL 6.
01 PH-ITEM TYPE PH.
02 LINE 2.
03 DATA1 COLUMN 50 PIC X(6) SOURCE YYMMDD.
PROCEDURE DIVISION.
MOVE WOBR :: "M5565"(DATA1) TO YYYYMMDD
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]
IDENTIFICATION DIVISION.
CLASS-ID. C5565.
IDENTIFICATION DIVISION.
OBJECT.
PROCEDURE DIVISION.
IDENTIFICATION DIVISION.
METHOD-ID. M5565.
DATA DIVISION.
LINKAGE SECTION.
01 LK1 PIC X(6).
01 LK2 PIC X(8).
PROCEDURE DIVISION USING LK1
RETURNING LK2.
END METHOD M5565.
END OBJECT.
END CLASS C5565.

[P5565.cob]
IDENTIFICATION DIVISION.
PROGRAM-ID. P5565.
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-TORE 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 IDENTIFICATION 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-TORE STORAGE SECTION.
000014 PROCEDURE DIVISION.
000015 DISPLAY SELF :: "M5567B" (EXCEL)
000016 END METHOD M5567A.
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 "SCREEN 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- Olivia 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- Olivia 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

```cob
[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

```cob
[C5572.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C5572.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
```

- 718 -
000006     CLASS SPL-CL AS "*OLE".
000007 IDENTIFICATION DIVISION.
000008 OBJECT.
000009 DATA        DIVISION.
000010 WORKING-STORAGE SECTION.
000011 01 OBJE 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.
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".
JMN5575I-S

The predefined object identifier NULL cannot be use as an object identifier for the INVOKE statement.

Example

```cob
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P5575.
000003 DATA DIVISION.
000004 WORKING-STOREAGE 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-STOREAGE or LINKAGE SECTION.

Parameter Explanation

  @1@ : INVOKE / CALL

Example

```cob
[C5576.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID       C5576.
000003 IDENTIFICATION DIVISION.
000004 OBJECT.
000005 PROCEDURE      DIVISION.
000006   METHOD-ID.     M5576.
000007 DATA           DIVISION.
000008   LINKAGE         SECTION.
000009 01 LK1         PIC X(6).
000010 01 LK2         PIC X(8).
000011 PROCEDURE      DIVISION USING LK1
000012                         RETURNING LK2.
000013     END METHOD     M5576.
000014 END OBJECT.
000015 END CLASS      C5576.
```

```cob
[P5576.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    P5576.
000003 ENVIRONMENT    DIVISION.
000004 CONFIGURATION   SECTION.
000005 REPOSITORY.
000006     CLASS C5576.
000007 INPUT-OUTPUT   SECTION.
```
FILE-CONTROL.
SELECT REPFILE ASSIGN TO SYS001.

DATA DIVISION.
FILE SECTION.
FD REPFILE REPORT IS REP1.

WORKING-STORAGE SECTION.
01 YYMMDD PIC X(6).
01 YYYYMMDD PIC X(8).
01 WOBR OBJECT REFERENCE C5576.

REPORT SECTION.
RD REP1 PAGE 66
01 PH-ITEM TYPE PH.
   02 LINE 2.
      03 COLUMN 50 PIC X(6) SOURCE YYMMDD.

PROCEDURE DIVISION.
INVOKE WOBR "M5576" USING PH-ITEM
    RETURNING YYYYMMDD
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 a file, WORKING-STORAGE or LINKAGE SECTION.

JMN5576I-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]
IDENTIFICATION DIVISION.
CLASS-ID C5576.
IDENTIFICATION DIVISION.
OBJECT.
PROCEDURE DIVISION.
IDENTIFICATION DIVISION.
METHOD-ID. M5576.
DATA DIVISION.
LINKAGE SECTION.
01 LK1 PIC X(6).
01 LK2 PIC X(8).
PROCEDURE DIVISION USING LK1
RETURNING LK2.
END METHOD M5576.
END OBJECT.
END CLASS C5576.

[P5576.cob]
IDENTIFICATION DIVISION.
PROGRAM-ID. P5576.
ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
REPOSITORY.
CLASS C5576.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT REPFILE ASSIGN TO SYS001.
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. SYSEX.
000003 END CLASS SYSEX.

[P5579.cob]
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. P5579.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006 CLASS SYSEX.
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 SYSEX.
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-LAVEL, 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.
```
The GOBACK statement can only be used in the program definition. The GOBACK statement is ignored.

Parameter Explanation

@1@ can be used in the program definition. @1@ is ignored.

Example

```cob
IDENTIFICATION DIVISION.
CLASS-ID.      C5581.
ENVIRONMENT DIVISION.
IDENTIFICATION DIVISION.
OBJECT.
PROCEDURE DIVISION.
IDENTIFICATION DIVISION.
METHOD-ID.     M5581.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STORAGE SECTION.
PROCEDURE DIVISION.
DISPLAY "TEST START".
STOP "Restart Now !".
DISPLAY "TEST END".
END METHOD M5581.
END OBJECT.
END CLASS C5581.
```

STOP statement with literal can be used in the program definition. STOP statement with literal is ignored.

Predefined object identifier SELF cannot be specified in the KEY phrase of a SORT or MERGE statement.

Example

```cob
IDENTIFICATION DIVISION.
CLASS-ID.      C5582.
CONFIGURATION SECTION.
REPOSITORY.
IDENTIFICATION DIVISION.
OBJECT.
PROCEDURE DIVISION.
IDENTIFICATION DIVISION.
METHOD-ID.     M5582.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT SQFILE1 ASSIGN TO SYS001.
SELECT SQFILE2 ASSIGN TO SYS002.
SELECT SRFILE ASSIGN TO SYS003.
I-O-CONTROL.
DATA DIVISION.
FILE SECTION.
FD SQFILE1.
01 SQF1REC PIC X(80).
FD SQFILE2.
01 SQF2REC PIC X(80).
```
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**

```cobol
[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

[C5585.cob]
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C5585.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
000005 REPOSITORY.
000006 IDENTIFICATION DIVISION.
000007 DATA DIVISION.
000008 OBJECT.
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.

[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 DATA DIVISION.
000008 OBJECT.
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"
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)/ENCOD(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-STOREAGE SECTION.
000011 01 P5591       OBJECT REFERENCE FACTORY OF FJBASE
000012                PROPERTY.
000013 PROCEDURE      DIVISION.
000014 IDENTIFICATION DIVISION.
000015 METHOD-ID.     M5591.
```
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 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-STOREAGE 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 WPRMI.
000008 02 WPRMIL PIC 9(4).
000009 02 WPRMIX PIC 9(4).
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, 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.

---

**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**

```cobol
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.
```

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**

```cobol
000001 IDENTIFICATION DIVISION.
000002 CLASS-ID. C5600.
000003 ENVIRONMENT DIVISION.
000004 CONFIGURATION SECTION.
```
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.

**JMN56011-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 WOBR TO WEXCEL AS FJBASE.
000017 END METHOD M5601.
000018 END OBJECT.
000019 END CLASS C5601.
```

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.

**JMN56021-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".
```
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-STOREAGE 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.
```
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 ENCODING UTF16.
000011 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 01 DATA3 PIC X(20) DISPLAY.
000013 MOVE CONVERSION DATA1(1:10) 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. 02 KEY-1 PIC X(4).
000016     02 KEY-2 PIC X(4).
000017     02 R1-1 PIC X(72).
000018     WORKING- STORAGE SECTION.
000019     77 ERR-SWT PIC 9(1).
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

```assembly
[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 RECI.
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.
```

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

```assembly
[p5791.cob]
000001 @OPTIONS ENCODE(UTF8,UTF16)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P5791.
000004 ENVIRONMENT DIVISION.
000005 CONFIGURATION SECTION.
000006 SPECIAL-NAMES.
000007     ALPHABET UTF32 FOR NATIONAL IS UTF32
000008  .
000009 INPUT-OUTPUT SECTION.
```

- 736 -
**FILE-CONTROL.**

```
SELECT SQFILE1 ASSIGN TO SYS001
ORGANIZATION IS LINE SEQUENTIAL
FILE STATUS IS WFS1.
```

**I-O-CONTROL.**

```
DATA DIVISION.
FILE SECTION.
FD SQFILE1.
  01 SQF1REC1.
    02 PIC N(80).
  01 SQF1REC2.
    02 PIC N(40) ENCODING UTF32.
WORKING-STORAGE SECTION.
  01 WFS1 PIC X(2).
PROCEDURE DIVISION.
END PROGRAM P5791.
```

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.
```

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
```

**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. Interactive debugger is treated as FILLER-item.

Parameter Explanation

@1@ : Item-name
2.2.7  JMN9000 - JMN9999

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</table>

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, 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(STDM)
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
Example

```
[C9002.cob]
000001 @OPTIONS FLAGSW(STDM)
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(STDM)
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**

**Mnemonic-name in ACCEPT 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**

**Multiple file name in USE 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 OTRREC 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(STDI)
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 M)
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(STDM)
000002 IDENTIFICATION  DIVISION.
000003 PROGRAM-ID.     C9009.
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(STDM)
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


Example

[C9012.cob]
000001 @OPTIONS FLAGSW(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9012.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT IN-FILE ASSIGN TO INFL.
SELECT OT-FILE ASSIGN TO OTFL.
SELECT SORT-FILE ASSIGN TO STFL.
DATA DIVISION.
FILE SECTION.
FD IN-FILE.
   01 IN-REC.
      02 REC01 PIC X(5).
      02 REC02 PIC X(50).
FD OT-FILE.
   01 OT-REC.
      02 REC01 PIC X(5).
      02 REC02 PIC X(50).
SD SORT-FILE.
   01 ST-REC.
      02 RECKEY PIC X(5).
      02 REC02 PIC X(50).
WORKING-STORAGE SECTION.
PROCEDURE DIVISION.
P-START.
   SORT SORT-FILE ASCENDING KEY RECKEY USING IN-FILE GIVING OT-FILE.
   IF SORT-STATUS NOT = ZERO THEN
      DISPLAY "** ERROR IN SORT STATEMENT **"
   END-IF.
   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 "NATIONAL".
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

```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

```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

```cob)
0000001 @OPTIONS FLAGSW(STDM)
0000002 IDENTIFICATION DIVISION.
0000003 PROGRAM-ID. C9016.
0000004 ENVIRONMENT DIVISION.
0000005 DATA DIVISION.
0000006 WORKING-Storage SECTION.
0000007 01 REC01.
0000008 02 REC02 OCCURS 3 TIMES.
0000009 03 REC03 OCCURS 3 TIMES.
0000010 04 REC04 OCCURS 3 TIMES.
0000011 05 REC05 OCCURS 3 TIMES.
0000012 06 REC06 PIC 9(2).
0000013 PROCEDURE DIVISION.
0000014 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**

```cob
[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**

```cob
[C9018.cob]
000001 @OPTIONS FLAGSW(STDM)
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(STDM)
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(STDM)
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(STDM)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9021.
000004 ENVIRONMENT DIVISION.
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-RECI.
000008 02 REC01 PIC X.
000009 PROCEDURE DIVISION.
000010 P-START.
000011 MOVE "0" TO REC01 OF OUT-RECI.
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.
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.

JMN91011I-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.
JMN91031-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: JMN91031-W (STD) Literal in ALPHABET clause is beyond the common range.

JMN91041-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-STOREAGE SECTION.
000010 01 RECEI PIC N(4) CHARACTER TYPE IS MODE-3 BY PRINT.
000011 PROCEDURE DIVISION.
000012 P-START.
000013 STOP RUN.

C9104.cob 10: JMN91041-W (SIA) Mnemonic-name of CHARACTER TYPE clause is beyond the common range.

JMN91051-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

(%) Multiple literal of VALUE clause is beyond the common range.

Parameter Explanation

%( ) : 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

(%) Integer-1 THRU integer-2' of VALUE clause is beyond the common range.

Parameter Explanation

%( ) : SIA,STD

Example

[C9107.cob]
000001 @OPTIONS FLAGSW(STD)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9107.
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 88 REC02 VALUE IS 0 THRU 4.
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.
JMN9110-W

(@1@) VALUE OF data-name is beyond the common range.

Parameter Explanation

@1@ : STD

Example

[C9110.cob]
000001 @OPTIONS FLAGSW(STDM)
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.

JMN9111-W

(@1@) Nested REDEFINES clause is beyond the common range.

Parameter Explanation

@1@ : STD

Example

[C9111.cob]
000001 @OPTIONS FLAGSW(STDM)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9111.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STORAGE SECTION.
000007 01 IN-REC.
000008 02 REC1 PIC X(80).
000009 02 REC2 REDEFINES REC1.
000010 03 REC12 PIC X(40).
000011 03 REC122 REDEFINES REC121.
000012 04 REC1221 PIC X(20).
000013 04 REC1222 PIC X(20).
000014 03 REC123 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

(@2@) @2@ in PICTURE clause is beyond the common range.
Parameter Explanation

@1@ : SIA, STD
@2@ : N, 1, E

Example

```cob
[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 RECO1 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

```cob
[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 RECO1 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

```cob
[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 "**".
```
PROCEDURE DIVISION.
   P-START.
   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(STDM)
   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(STDM)
   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.
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(STDM)
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(STDM)
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(STDM)
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(STDM)
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(STDM)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9127
```

- 758 -
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

```cobol
[C9128.cob]
000001 @OPTIONS FLAGSW(STDM)
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

```cobol
[C9129.cob]
000001 @OPTIONS FLAGSW(STDM)
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"
```
THEN
DISPLAY "*** A IS SPACE ***"
END-IF.
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(STDM)
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(STDM)
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

```cob
[C9152.cob]
000001 @OPTIONS FLAGSW(STDM)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9152.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STOREAGE 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

```cob
[C9153.cob]
000001 @OPTIONS FLAGSW(STDM)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. C9153.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-STOREAGE 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,DBC5,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 NATIONAL DATA BY REC02.
000012 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(STDM)
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(STDH)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.  P9172.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING- STORAGE SECTION.
000007 01 REC01 PIC NBNBNB.
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(STDM)
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.
```
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(STDM)
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.

JMN91811-W

(@(1@))TO TRUE clause in SET statement is beyond the common range.

Parameter Explanation

@1@ : STD

Example

[P9181.cob]
000001 @OPTIONS FLAGSW(STDM)
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
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)This data item in START statement is beyond the common range.

JMN9183I-W

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
Multiple characters data item in INSPECT statement is beyond the common range.

Parameter Explanation

\[@1\@ : STD\]

Example

```cob
[P9191.cob]
000001 @OPTIONS FLAGSW(STD1)
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.

Multiple BEFORE/AFTER in INSPECT statement is beyond the common range.

Parameter Explanation

\[@1@ : STD\]

Example

```cob
[P9192.cob]
000001 @OPTIONS FLAGSW(STD1)
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.

Multiple @2@ operand in INSPECT statement is beyond the common range.

Parameter Explanation

\[@1@ : STD\]
\[@2@ : TALLYING,REPLACING\]
Example

```
[P9193.cob]
000001 @OPTIONS FLAGSW(STD1)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9193.
000004 ENVIRONMENT DIVISION.
000005 DATA DIVISION.
000006 WORKING-START SECTION.
000007 01 REC01 PIC X(10).
000008 01 REC02 PIC 9(4).
000009 PROCEDURE DIVISION.
000010 P-START.
000011 INSPECT REC01 REPLACING ALL "l" BY "L"
000012 "o" 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(STD1)
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(STD1)
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 RECO1 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(STDM)
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 RECO1 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(STDM)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9261.
000004 ENVIRONMENT DIVISION.
000005 INPUT-OUTPUT SECTION.
000006 FILE-CONTROL.
000007  SELECT SEQFLINE
000008 ASSIGN TO C9261
000009 ORGANIZATION IS LINE SEQUENTIAL.
000010 DATA DIVISION.
```

- 768 -
FILE SECTION.
FD SEQFLINE.
01 FILE-NUM PIC X(80).
PROCEDURE DIVISION.
P-START.
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(STD1)
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(STDM)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9333.
00004  ENVIRONMENT DIVISION.
00005  DATA DIVISION.
00006  WORKING-STORAGE SECTION.
00007  01 REC01.
00008  02 REC02 PIC 9(4).
00009  02 REC03 PIC 9(4).
00010  02 REC04 PIC 9(4).
00011  02 REC05 PIC 9(4).
00012  02 REC06 PIC 9(4).
00013  02 REC07 PIC 9(4).
00014  PROCEDURE DIVISION.
00015  P-START.
00016     CALL "Z9333" USING REC02
00017                     REC03
00018                     REC04
00019                     REC05
00020                     REC06
00021                     REC07.
00022     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]
00001  @OPTIONS FLAGSW(STDM)
00002  IDENTIFICATION DIVISION.
00003  PROGRAM-ID. P9334.
00004  ENVIRONMENT DIVISION.
00005  DATA DIVISION.
00006  WORKING-STORAGE SECTION.
00007  LINKAGE SECTION.
00008  01 REC01 PIC 9(4).
00009  01 REC02 PIC 9(4).
00010  01 REC03 PIC 9(4).
00011  01 REC04 PIC 9(4).
00012  01 REC05 PIC 9(4).
00013  01 REC06 PIC 9(4).
00014  PROCEDURE DIVISION USING REC01
00015                     REC02
00016                     REC03
00017                     REC04
00018                     REC05
00019                     REC06.
00020  P-START.
00021  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

```cob
000001 @OPTIONS FLAGSW(STDM)
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

```cob
000001 @OPTIONS FLAGSW(STDM)
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

```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.
```
SELECT SORT-FILE ASSIGN TO STFL.
DATA DIVISION.
FILE SECTION.
FD IN-FILE.
01 IN-REC.
 02 REC1 PIC X(80).
FD OT-FILE.
01 OT-REC.
 02 RECO1 PIC X(80).
SD SORT-FILE.
 01 ST-REC.
   02 RECS1 PIC X(5).
   02 RECS2 PIC X(5).
   02 RECS3 PIC X(5).
   02 RECS4 PIC X(5).
   02 RECS5 PIC X(5).
   02 RECS6 PIC X(5).
   02 RECS7 PIC X(5).
   02 RECS8 PIC X(5).
   02 RECS9 PIC X(5).
   02 RECS10 PIC X(5).
   02 RECS11 PIC X(5).
   02 RECS12 PIC X(5).
   02 RECS13 PIC X(5).
   02 RECS14 PIC X(5).
   02 RECS15 PIC X(5).
   02 RECS16 PIC X(5).
WORKING-STORAGE SECTION.
PROCEDURE DIVISION.
P-START.
   SORT SORT-FILE ASCENDING KEY
      RECS1 RECS2 RECS3 RECS4 RECS5 RECS6 RECS7 RECS8
      RECS9 RECS10 RECS11 RECS12 RECS13 RECS14 RECS15 RECS16
      USING IN-FILE GIVING OT-FILE.
STOP RUN.

JMN9343I-W
Number of keys specified in ASCENDING/DESCENDING clause of SORT statement must not exceed 15.

JMN9344I-W
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.
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(STDI)
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(STDI)
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)
IDENTIFICATION DIVISION.

PROGRAM-ID. C9352.

ENVIRONMENT DIVISION.

INPUT-OUTPUT SECTION.

FILE-CONTROL.

SELECT R-FILE ASSIGN TO RFIL.

DATA DIVISION.

FILE SECTION.

FD R-FILE REPORT R2-FILE.

WORKING-STORAGE SECTION.

REPORT SECTION.

RD R2-FILE

PAGE 62

FIRST DETAIL 6

LAST DETAIL 58.

DATA1 TYPE DE

LINE PLUS 1.

PROCEDURE DIVISION.

REPORT.

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]

IDENTIFICATION DIVISION.

PROGRAM-ID. P9353.

ENVIRONMENT DIVISION.

INPUT-OUTPUT SECTION.

FILE-CONTROL.

SELECT R-FILE ASSIGN TO RFIL.

DATA DIVISION.

FILE SECTION.

FD R-FILE REPORT R2-FILE.

WORKING-STORAGE SECTION.

REPORT SECTION.

RD R2-FILE

PAGE 62

FIRST DETAIL 6

LAST DETAIL 58.

DATA1 TYPE DE

LINE PLUS 1.

PROCEDURE DIVISION.

REPORT.

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**
(SIA)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 RFL.
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 01 DATA2 TYPE DE
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

(STD)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 DATA DIVISION.
000009 FILE SECTION.
000010 FD MED01.
000011 01 REC01 PIC 9(5).
000012 01 REC02 PIC 9(5).
000013 PROCEDURE DIVISION.
000014 P-START.
000015 OPEN INPUT MED01.
000016 CLOSE MED01.
000017 STOP RUN.
P9381.cob 11: JMN9381-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: JMN9384-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(STDM)
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).
```
PROCEDURE DIVISION.

P-START.

OPEN INPUT INFILE.

CLOSE INFILE.

STOP RUN.

JMN9392I-W

@1@ Literal of file identifier in ASSIGN clause is beyond the common range.

Parameter Explanation

@1@ : SIA

Example

[C9393.cob]

000001 @OPTIONS FLAGSW(STD)
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).

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

[P9393.cob]

000001 @OPTIONS FLAGSW(SIA)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9393.
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.

P9391.cob 14: JMN9391I-W (STD) RANDOM in ACCESS MODE clause is beyond the common range.
PROCEDURE DIVISION.

P-START.

STOP RUN.

C9393.cob 11: JMN9393I-W (STD)PRINTER in ASSIGN clause is beyond the common range.

JMN9501I-W

Separator '->' is beyond the common range.

Parameter Explanation

@1@ : SIA, STD

Example

[P9501.cob]
000001 @OPTIONS FLAGSW(STD)
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

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

This function name is beyond the common range.

Parameter Explanation

@1@ : SIA, STD
Example

[C9503.cob]
000001 @OPTIONS FLAGSW(STDM)
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.

JMN9504I-W

(@1@) Figurative constant NULL is beyond the common range.

Parameter Explanation
@1@ : SIA,STD

Example

[P9504.cob]
000001 @OPTIONS FLAGSW(STDH)
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(STDM)
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.
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

```cob
[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.

**JMN99001-E**

(@1@) The source reference format (free) is not supported.

Parameter Explanation

@1@ : GSS,GSW

Example

```cob
[P9900.cob]
@OPTIONS SRF(FREE),FLAGSW(GSS)
IDENTIFICATION DIVISION.
PROGRAM-ID. P9900.
ENVIRONMENT DIVISION.
DATA DIVISION.
WORKING-STOREAGE 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.
```
(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**

```cob
[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**

```cob
[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**

```cob
[P9903.cob]
000001 OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID. P9903.
000004 ENVIRONMENT DIVISION.
```

[P9903.cob] - 782 -
P9903.cob 8: JMN9903I-E (GSS) In the OSIV system, entry-name must consist of alphanumeric characters starting with an alphabetic character.

JMN9904I-W

(\texttt{@1@} \texttt{@2@} includes a hyphen. In the OSIV system, hyphens are replaced by ‘\#’.

Parameter Explanation

\texttt{@1@} : GSS, GSW

\texttt{@2@} : Program-name, entry-name, text-name, copy-name

Example

\begin{verbatim}
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.
\end{verbatim}

P9904.cob 8: JMN9904I-W (GSS) entry-name includes a hyphen. In the OSIV system, hyphens are replaced by '#'.

JMN9905I-E

(\texttt{@1@}) The text-name constant is not supported in the OSIV system.

Parameter Explanation

\texttt{@1@} : GSS, GSW

Example

\begin{verbatim}
000001 @OPTIONS FLAGSW(GSS)
000002 IDENTIFICATION DIVISION.
000003 PROGRAM-ID.    P9905.
000004 ENVIRONMENT    DIVISION.
000005 DATA           DIVISION.
000006 WORKING- storage SECTION.
000007 PROCEDURE      DIVISION.
000008 ENTRY "CPNAME" .
000009 COPY "CPNAME" .
000010 END PROGRAM    P9905.
\end{verbatim}

P9905.cob 7: JMN9905I-E (GSS) The text-name constant is not supported in the OSIV system.

JMN9906I-E

(\texttt{@1@}) An external-name for a program-name is not supported in the OSIV system.

Parameter Explanation

\texttt{@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 WNDA PIC N(4).
000008 PROCEDURE DIVISION.
000009 MOVE NX"C6FCCBDDBC8EC" TO WNDA
000010 END PROGRAM P9908.
```

- 784 -
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

```cob
[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

```cob
[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

```cob
[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 01 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.
P9918.cob 7: JMN9918I-E (GSS) Named constants (level number 78) are not supported in the OSIV system.

JMN9919I-E

((LogLevel 1) The type definition is not supported in the OSIV system.

Parameter Explanation

(LogLevel 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

((LogLevel 1) )2@ in the USAGE clause is not supported in the OSIV system.

Parameter Explanation

(LogLevel 1) : GSS, GSW

(LogLevel 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

((LogLevel 1) )2@ phrase in the PROCEDURE DIVISION header is not supported in the OSIV system.

Parameter Explanation

(LogLevel 1) : GSS, GSW

(LogLevel 2) : WITH, RETURNING

Example

```
[P9921.cob]
000001 @OPTIONS FLAGSW(GSS)
```

- 789 -
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 "P9926SUB"
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.
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**

```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.
```

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**

```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 IXFIREC.
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.
```

In the OSIV system, a relational character in the START statement is not supported.
@1@ @2@ is not supported in the OSIV system.

Parameter Explanation

@1@ : GSS, GSW

@2@ : Hexadecimal numeric literal

Example

```plaintext
[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

```plaintext
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 SOLSTATE PIC X(5).
000010 01 SQLMSG PIC X(128).
000011 01 VAR-IND1 PIC S9(9) COMP-5.
```
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**

```plaintext
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**

```plaintext
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    SP8004.
```
EXEC SQL BEGIN DECLARE SECTION END-EXEC.

01 STOCK-TABLE.
   02 PRDCTNUM PIC S9(4) COMP-5.
   02 PRDCTNAM PIC X(20).

01 SQLSTATE PIC X(5).
01 SQLMSG PIC X(128).
01 VAR-IND1 PIC S9(4) COMP-5.

EXEC SQL END DECLARE SECTION END-EXEC.

PROCEDURE DIVISION.

EXEC SQL
   CALL SPROCEDURE.SELECT1(
   END-EXEC

EXEC SQL
   CALL SPROCEDURE.SELECT2(:PRDCTNUM:VAR-IND1
   .

SP8004.cob (15) : JMN2633I-S The SQL statement is invalid. ODBC-8004E Right parenthesis corresponding to left parenthesis is missing near "SPROCEDURE.SELECT1".

SP8004.cob (18) : JMN2633I-S The SQL statement is invalid. ODBC-8004E Right parenthesis corresponding to left parenthesis is missing near "SPROCEDURE.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

EXEC SQL
   SELECT PRDCT-NO FROM STOCK WHERE PRDCT-NM = N'ABC'
   .

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   .
```

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(1:4) = 'TIRE'
000016   .
```

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.
```
WORKING-STORAGE SECTION.
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.
EXEC SQL END DECLARE SECTION END-EXEC.
PROCEDURE DIVISION.
EXEC SQL
/* COMMENT */
CALL SPROCEDRE.SELECT1(:PRDCTNUM:VAR-IND)
END-EXEC.

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
IDENTIFICATION DIVISION.
PROGRAM-ID.    SP8052.
DATA           DIVISION.
WORKING-STORAGE SECTION.
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-IND PIC S9(4) COMP-5.
EXEC SQL END DECLARE SECTION.
EXEC SQL
SELECT "" FROM STOCK WHERE :PRDCTNAM = 'TIRE'
END-EXEC.

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
IDENTIFICATION DIVISION.
PROGRAM-ID.    SP8100.
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     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 FETCH C1 :PRDCTNUM END-EXEC.
000021     DISPLAY "Product NO." PRDCTNUM
000022     EXEC SQL CLOSE C1 END-EXEC.
000023 .
```

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

```
IDENTIFICATION DIVISION.
PROGRAM-ID. SP8116.
DATA DIVISION.
WORKING-STORAGE SECTION.
EXEC SQL BEGIN DECLARE SECTION END-EXEC.
STOCK-TABLE.
   02 PRDCTNUM PIC S9(4) COMP-5.
   02 PRDCTNAM PIC X(20).
SQLSTATE PIC X(5).
SQLMSG PIC X(128).
VAR-IND1 PIC S9(4) COMP-5.
EXEC SQL END DECLARE SECTION END-EXEC.
PROCEDURE DIVISION.
EXEC SQL
   CALL SPROCEDRE.SELECT1(PRDCTNUM)
END-EXEC
EXEC SQL
   CALL SPROCEDRE.SELECT2(:PRDCTNUM,)
END-EXEC.
```

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

```
IDENTIFICATION DIVISION.
PROGRAM-ID. SP8308.
DATA DIVISION.
WORKING-STORAGE SECTION.
EXEC SQL BEGIN DECLARE SECTION END-EXEC.
STOCK-TABLE.
   02 PRDCTNUM PIC S9(4) COMP-5.
   02 PRDCTNAM PIC N(10).
SQLSTATE PIC X(5).
SQLMSG PIC X(128).
VAR-IND1 PIC S9(4) COMP-5.
EXEC SQL END DECLARE SECTION END-EXEC.
PROCEDURE DIVISION.
EXEC SQL
   DECLARE CURSOR C1 FOR
      SELECT PNO FROM STOCK WHERE :PRDCTNAM = 'TIRE'
END-EXEC.
```

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**

```
IDENTIFICATION DIVISION.
PROGRAM-ID. SP8309.
DATA DIVISION.
WORKING-STORAGE SECTION.
EXEC SQL BEGIN DECLARE SECTION END-EXEC.
 01 STOCK-TABLE.
   02 PRDCTNUM PIC S9(4) COMP-5.
   02 PRDCTNAM PIC N(10).
 01 SQLSTATE PIC X(5).
 01 SQLMSG PIC X(128).
 01 VAR-IND1 PIC S9(4) COMP-5.
 01 SQLSTMT PIC X(500).
EXEC SQL END DECLARE SECTION END-EXEC.
PROCEDURE DIVISION.
  MOVE "SELECT PNO FROM STOCK WHERE PNAME = ?" TO SQLSTMT
  EXEC SQL PREPARE STM1 FROM :SQLSTMT END-EXEC
  EXEC SQL EXECUTE USING :PRDCTNAM END-EXEC
```

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**

```
IDENTIFICATION DIVISION.
PROGRAM-ID. SP8310.
DATA DIVISION.
WORKING-STORAGE SECTION.
EXEC SQL BEGIN DECLARE SECTION END-EXEC.
 01 STOCK-TABLE.
   02 PRDCTNUM PIC S9(4) COMP-5.
   02 PRDCTNAM PIC X(20).
 01 SQLSTATE PIC X(5).
 01 SQLMSG PIC X(128).
 01 VAR-IND PIC S9(4) COMP-5.
 01 SQLSTMT PIC X(500).
EXEC SQL END DECLARE SECTION END-EXEC.
PROCEDURE DIVISION.
```
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

```plaintext
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

```plaintext
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).
```
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 "@1@".**

**Parameter Explanation**

@1@: SET CONNECTION

**Example**

```assembly
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 "@1@".**

**Parameter Explanation**

@1@: DISCONNECT

**Example**

```assembly
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.    SP8327.
000003 DATA           DIVISION.
```
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 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 .
```

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

```cob
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 X(10).
000009 01 SQLSTATE   PIC X(5).
000010 01 SQLMSG     PIC X(128).
000011 01 SQLCON     PIC X(30).
000012 01 VAR-IND1   PIC S9(4) COMP-5.
000013     EXEC SQL END DECLARE SECTION END-EXEC.
000014 PROCEDURE DIVISION.
000015     EXEC SQL 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.
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**

```cobol
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**

```cobol
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).
```

- 807 -
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

```assembly
00001 IDENTIFICATION DIVISION.
00002 PROGRAM-ID.  SP8410.
00003 DATA  DIVISION.
00004 WORKING-STORAGE SECTION.
00005  EXEC SQL BEGIN DECLARE SECTION END-EXEC.
00006  01 STOCK-TABLE.
00007    02 PRDCTNUM   PIC S9(4) COMP-5.
00008    02 PRDCTNAM   PIC X(20).
00009  01 SQLSTATE     PIC X(5).
00010  01 SQLMSG       PIC X(128).
00011  01 VAR-IND      PIC S9(4) COMP-5.
00012  01 RTCD         PIC S9(4) COMP-5.
00013  EXEC SQL END DECLARE SECTION END-EXEC.
00014 PROCEDURE DIVISION.
00015  EXEC SQL CALL SELECT1(:PRDCTNUM:VAR-IND) RETURNING RTCD
00016  END-EXEC
00017 .
```

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

```assembly
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID.  SP8430.
000003 DATA  DIVISION.
000004 WORKING-STORAGE SECTION.
000005  EXEC SQL BEGIN DECLARE SECTION END-EXEC.
```
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

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

```plaintext
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

```plaintext
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
```

- 810 -
DECLARE C1 CURSOR FOR
SELECT PNO FROM STOCK WHERE PRDCTNAM = 'TIRE'
END-EXEC
EXEC SQL OPEN C1 END-EXEC
EXEC SQL FOR 4 FETCH C1 INTO :PRDCTNUM END-EXEC
EXEC SQL CLOSE C1 END-EXEC
.

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

IDENTIFICATION DIVISION.
PROGRAM-ID.    SP8433.
DATA           DIVISION.
WORKING-STORAGE SECTION.
EXEC SQL BEGIN DECLARE SECTION END-EXEC.

01 STOCK-TABLE1.
   02 PRDCTNUM PIC S9(4) COMP-5 OCCURS 3.

01 CNT        PIC S9(4) COMP-5.

PROCEDURE DIVISION.
EXEC SQL
SELECT PNO, PNAME INTO :STOCK-TABLE1, :STOCK-TABLE2
FROM STOCK WHERE PRDCTNAM = 'TIRE'
END-EXEC
.

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

IDENTIFICATION DIVISION.
PROGRAM-ID.    SP8435.
DATA           DIVISION.
WORKING-STORAGE SECTION.
EXEC SQL BEGIN DECLARE SECTION END-EXEC.

01 STOCK-TABLE.
   02 PRDCTNUM   PIC S9(4) COMP-5.
   02 PRDCTNAM   PIC X(20).

PROCEDURE DIVISION.
EXEC SQL
SELECT PNO, PNAME INTO :STOCK-TABLE1, :STOCK-TABLE2
FROM STOCK WHERE PRDCTNAM = 'TIRE'
END-EXEC.
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

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
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 X(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).
EXEC SQL END DECLARE SECTION END-EXEC.

PROCEDURE DIVISION.

MOVE "SELECT PNO FROM STOCK WHERE PNAME = ?" TO SQLSTMT

EXEC SQL PREPARE STM1 FROM :SQLSTMT ALL END-EXEC

EXEC SQL EXECUTE IMMEDIATE :SQLSTMT USING :PRDCTNAM END-EXEC

.

SP8486.cob (16) : 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

IDENTIFICATION DIVISION.
PROGRAM-ID. SP8499.
DATA DIVISION.
WORKING-STORAGE SECTION.
EXEC SQL BEGIN DECLARE SECTION END-EXEC.
STOCK-TABLE.
PRDCTNUM PIC S9(4) COMP-5.
PRDCTNAM PIC X(20).
SQLSTATE PIC X(5).
SQLMSG PIC X(128).
VAR-IND PIC S9(4) COMP-5.
EXEC SQL END DECLARE SECTION END-EXEC.

PROCEDURE DIVISION.
EXEC SQL COMMIT IMMEDIATE END-EXEC
EXEC SQL ROLLBACK RELEASE END-EXEC
.

SP8499.cob (14) : JMN2633I-S The SQL statement is invalid. ODBC-8499E Invalid specification after keyword "COMMIT".

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

IDENTIFICATION DIVISION.
PROGRAM-ID. SP8503.
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**

```assembly
00001 IDENTIFICATION DIVISION.
00002 PROGRAM-ID.    SP8601.
00003 DATA           DIVISION.
00004 WORKING- STORAGE SECTION.
00005     EXEC SQL BEGIN DECLARE SECTION END-EXEC.
00006 01 STOCK-TABLE.
00007   02 PRDCTNUM   PIC S9(4) COMP-5.
00008   02 PRDCTNAM   PIC N(10).
00009 01 SQLSTATE     PIC X(5).
00010 01 SQLMSG       PIC X(128).
00011 01 VAR-IND1     PIC S9(4) COMP-5.
00012 01 SQLSTMT      PIC X(500).
00013     EXEC SQL END DECLARE SECTION END-EXEC.
00014 PROCEDURE DIVISION.
00015     EXEC SQL
00016       DECLARE C1 CURSOR FOR
00017         SELECT PNO FROM STOCK WHERE :PRDCTNAM = 'TIRE'
00018       END-EXEC
00019     EXEC SQL OPEN C1 END-EXEC.
00020     EXEC SQL PREPARE STM1 FROM :SQLSTMT END-EXEC
00021     EXEC SQL EXECUTE STM1 USING :PRDCTNUM USING :PRDCTNAM END-EXEC
00022     EXEC SQL CLOSE C1 END-EXEC.
00023    .
```

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**

```assembler
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**

```assembler
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
```

- 816 -
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 01 STOCK-TABLE4.
000017   02 PRDCTNUM4 OCCURS 2 PIC S9(4) COMP-5.
000018   02 PRDCTNAM4 OCCURS 4 PIC X(10).
000019 01 SQLSTATE PIC X(5).
000020 01 SQLMSG PIC X(128).
000021 01 VAR-IND1 PIC S9(4) COMP-5.
000022 01 SQLSTATE PIC X(128).
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 (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 PRDCTNM   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 SQLSTM1    PIC X(500).
000013 01 SQLSTM2    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 SQLSTM1
000017     MOVE 9999 TO SQLSTM2
000018     EXEC SQL PREPARE STM1 FROM :SQLSTM1 END-EXEC
000019     EXEC SQL EXECUTE IMMEDIATE :SQLSTM2 END-EXEC
000020     .
```

SP8772.cob (18) : JMN2633I-S The SQL statement is invalid. ODBC-8772E Data type of SQL statement variable "SQLSTM2" must be character string type.

SP8772.cob (19) : JMN2633I-S The SQL statement is invalid. ODBC-8772E Data type of SQL statement variable "SQLSTM2" 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).
```
EXEC SQL END DECLARE SECTION END-EXEC.

PROCEDURE DIVISION.

EXEC SQL

CALL PPPPPPPPP1PPPPPPPP2PPPPPPPP3PPPPPPPP4PPPPPPPP5PPPPPPPP6PPPPPPPP7

PPPPPPPPP8PPPPPPPP9PPPPPPPP10PPPPPPPP11PPPPPPPP12PPPPPPPP13PPPPPPPP14

PPPPPPPPP15PPPPPPPP16PPPPPPPP17PPPPPPPP18

EXEC SQL END-EXEC.

SP8956.cob (14) : JMN2633I-S The SQL statement is invalid. ODBC-8956E Stored procedure name "PPPPPPPPP1PPPPPPPPP2PPPPPPPP3PPPPPPPP4PPPPPPPP5PPPPPPPP6PPPPPPPP7PPPPPPPP8PPPPPPPP9PPPPPPPPPPPPPPPP10PPPPPPPP11PPPPPPPP12PPPPPPPP" 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

EXEC SQL PREPARE STM1 FROM :SQLSTMT1 END-EXEC

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

EXEC SQL PREPARE STM1 FROM :SQLSTMT1 END-EXEC
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:

\[\text{date-and-time message-number [process-id thread-id] message-text}\]

**Date-and-time**

The date and time are displayed in the format:

\[\text{YYYY-MM-DD HH:MM:SS (Year-Month-Day Hour:Minute:Second)}\]

The time is displayed in local time.

**Message-number**

The message number is displayed in the format:

\[\text{JMPnnnni-w}\]

- 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 the 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**

<table>
<thead>
<tr>
<th>Severity Code</th>
<th>Level</th>
<th>Meaning</th>
<th>Effect on Return Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I (INFORMATION)</td>
<td>Transmitting message</td>
<td>Information detected by the runtime system. The program can be executed normally.</td>
<td>Not affected</td>
</tr>
<tr>
<td>W (WARNING)</td>
<td>Warning error</td>
<td>The program can be executed normally. However, check whether the execution results are as expected.</td>
<td>Not affected</td>
</tr>
<tr>
<td>E (ERROR)</td>
<td>Recoverable error</td>
<td>There is an error, but processing is continued according to the appropriate assumption.</td>
<td>Affected (*1)</td>
</tr>
<tr>
<td>U (UNRECOVERABLE)</td>
<td>Unrecoverable error</td>
<td>The system stops program execution and performs termination processing.</td>
<td>Affected (*2) (*3)</td>
</tr>
</tbody>
</table>

*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:nnnnnnnnn}
```

- mmmmmmm : Process ID of the application in which an error is detected
- nnnnnnnnn : 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:

<table>
<thead>
<tr>
<th>Message-number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message-text (*1)</td>
</tr>
<tr>
<td>System action</td>
</tr>
<tr>
<td>System action or runtime system action – for example, whether or not processing is terminated.</td>
</tr>
<tr>
<td>Explanation</td>
</tr>
<tr>
<td>Explanation of the message text</td>
</tr>
<tr>
<td>Response</td>
</tr>
<tr>
<td>Action to be taken by the programmer</td>
</tr>
</tbody>
</table>

*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**

<table>
<thead>
<tr>
<th>0001</th>
<th>0002</th>
<th>0004</th>
<th>0007</th>
<th>0009</th>
<th>0010</th>
<th>0012</th>
<th>0015</th>
<th>0016</th>
<th>0018</th>
</tr>
</thead>
<tbody>
<tr>
<td>0019</td>
<td>0020</td>
<td>0022</td>
<td>0024</td>
<td>0026</td>
<td>0031</td>
<td>0032</td>
<td>0034</td>
<td>0035</td>
<td>0036</td>
</tr>
<tr>
<td>0061</td>
<td>0062</td>
<td>0070</td>
<td>0071</td>
<td>0072</td>
<td>0078</td>
<td>0081</td>
<td>0085</td>
<td>0086</td>
<td>0089</td>
</tr>
<tr>
<td>0092</td>
<td>0093</td>
<td>0096</td>
<td>0097</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>$2</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOT ASSIGNED</td>
<td>No access name ($1) has been assigned.</td>
<td>Assign an access name ($1).</td>
</tr>
<tr>
<td>INVALID ASSIGN</td>
<td>The keyword specified for assigning the file for SYSOUT contains an error.</td>
<td>Check whether the character string specified following the file name is valid for an expanded function. (*1)</td>
</tr>
<tr>
<td>INVALID PATH-NAME</td>
<td>The path name of the file contains an error.</td>
<td>Check whether the path name of the file is correctly specified.</td>
</tr>
<tr>
<td>FILE LOCK</td>
<td>The file assigned for SYSOUT is in the locked state.</td>
<td>Retry the operation. If this locking error frequently occurs, it may be an operational problem.</td>
</tr>
<tr>
<td>MEMORY SHORTAGE</td>
<td>There is insufficient memory for opening the file.</td>
<td>Refer to &quot;D.1 Virtual Memory Shortages&quot;.</td>
</tr>
<tr>
<td>READ ONLY</td>
<td>The file assigned for SYSOUT is a read-only file.</td>
<td>Change the access permission to allow writing to the file.</td>
</tr>
<tr>
<td>NOT EXISTED</td>
<td>The file assigned for SYSIN was not found.</td>
<td>Create the file before executing the program.</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Programmer Response</td>
</tr>
<tr>
<td>---</td>
<td>-----------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>$2</td>
<td><strong>LOCK FULL</strong></td>
<td>Too many OPEN requests were issued for the same file, and the lock table became full.</td>
</tr>
<tr>
<td></td>
<td><strong>INVALID FILE STRUCTURE</strong></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td><strong>THREAD SYNC ABANDONED</strong></td>
<td>A program terminated abnormally on Synchronization processing of the thread. The locking property was not correctly unlocked.</td>
</tr>
<tr>
<td></td>
<td><strong>THREAD SYNC ERROR (0xXXXX)</strong></td>
<td>Synchronization processing of the thread failed.</td>
</tr>
<tr>
<td></td>
<td><strong>ERRCD=0xXXXX</strong></td>
<td>Another error occurred.</td>
</tr>
<tr>
<td></td>
<td><strong>RMERR=0xXXXX</strong></td>
<td>This indicates an error code received from the runtime system.</td>
</tr>
<tr>
<td></td>
<td><strong>CONVERT ERROR (0xXXXX)</strong></td>
<td>Changing file name code is failed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Error code 0xFFFFFFFF indicates that characters that are not in ACP range were used in an inappropriate area.</td>
</tr>
</tbody>
</table>

*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.
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.

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.

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.

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.


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

<table>
<thead>
<tr>
<th>$2</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO PROGRAM NAME</td>
<td>A program name is not entered in the CALL Statement.</td>
<td>Enter the program name in the CALL Statement.</td>
</tr>
<tr>
<td>LOAD=DLL name CODE=0xXXXX</td>
<td>DLL loading failed upon invocation. The failed DLL name is displayed in LOAD, and the error code from the system is displayed in CODE.</td>
<td>Please correspond referring to the table below.</td>
</tr>
<tr>
<td>GET ADDRESS CODE=0xXXXX</td>
<td>Calling the function failed in DLL. The error code is displayed in CODE.</td>
<td>Please correspond referring to the table below.</td>
</tr>
</tbody>
</table>

Table 3.4 Error Code from System

<table>
<thead>
<tr>
<th>Code</th>
<th>Meanings</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>126(0x7E)</td>
<td>The specified module was not found.</td>
<td>Please confirm the PATH of the called program is correctly specified.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Please confirm DLL of the called program exists in either of the following folders.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Folder specified for environment variable PATH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Folder in which caller is programmed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Current folder</td>
</tr>
<tr>
<td>127(0x7F)</td>
<td>The specified procedure was not found.</td>
<td>The name of the called program must confirm whether EXPORT is done in DLL of the called program. ( *)</td>
</tr>
<tr>
<td>193 (0xC1)</td>
<td>It is not a valid Win32 application.</td>
<td>[Win32] Please confirm that the DLL of the called program is a 32bit application.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>[Win64] Please confirm that the DLL of the called program is a 64bit application.</td>
</tr>
<tr>
<td>Code</td>
<td>Meanings</td>
<td>Programmer Response</td>
</tr>
<tr>
<td>-----------</td>
<td>--------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| 1114(0x45A) | It failed in the execution of dynamic link library (DLL) initialization routine. | 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.  
- When DLL is made only in COBOL  
  Please stop the specification of LIBCMT.LIB when linking, specify option "/NOENTRY" of the link, and make DLL.  
- When DLL is made by COBOL and C  
  - When making it to same DLL  
    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".  
  - When making it to separate DLL  
    Please do not specify LIBCMT.LIB when you make DLL of COBOL, specify option "/NOENTRY" of the link, and make DLL. Please translate assembler option "/MD" specifying it when you make DLL of C, and make DLL. |
| 1157(0x485) | One is not found among the library files necessary for the execution of this application. | Please confirm DLL of the called program exists in either of the following folders.  
- Folder specified for environment variable PATH  
- Folder in which caller is programmed  
- Current folder |

- [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

<table>
<thead>
<tr>
<th>$2</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAXIMUM SIZE</td>
<td>The maximum file size was exceeded.</td>
<td>Take appropriate action, such as splitting the file into multiple files so that no single file exceeds the maximum size.</td>
</tr>
<tr>
<td>NO SPACE</td>
<td>There is insufficient space.</td>
<td>Check the free disk space. If a file capacity limit has been set by a command, increase the limit value and retry the operation.</td>
</tr>
<tr>
<td>THREAD SYNC ABANDONED</td>
<td>A program terminated abnormally on Synchronization processing of the thread. The lock property right was not correctly unlocked.</td>
<td>Determine if a thread was just terminated abnormally.</td>
</tr>
<tr>
<td>THREAD SYNC ERROR (0xXXXX)</td>
<td>Synchronization processing of the thread failed.</td>
<td>Correct the cause of the error according to the specified error code. (*1)</td>
</tr>
<tr>
<td>ERRCD=0xXXXX</td>
<td>Another error occurred.</td>
<td>Correct the cause of the error according to the specified error code. (*1)</td>
</tr>
<tr>
<td>RMERR=0xXXXX</td>
<td>An error code was received from the runtime system.</td>
<td>Since this is considered a system problem, open a support incident to obtain assistance from a supplier.</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>$2</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO SPACE</td>
<td>There is insufficient space.</td>
<td>Check the free disk space. If a file capacity limit has been set by a command, increase the limit value and retry the operation.</td>
</tr>
<tr>
<td>ERRCD=0xXXXX</td>
<td>Another error occurred.</td>
<td>Correct the cause of the error according to the specified error code. (*1)</td>
</tr>
<tr>
<td>RMERR=0xXXXX</td>
<td>An error code was received from the runtime system.</td>
<td>Since this is considered a system problem, open a support incident to obtain assistance from a supplier.</td>
</tr>
</tbody>
</table>

*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.

JMP00201-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".

JMP00221-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 JMP00221-U.

Table 3.7 $4 of JMP00221-U (Common file organizations)

<table>
<thead>
<tr>
<th>$4</th>
<th>Error Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCESS-MODE</td>
<td>Access mode</td>
</tr>
<tr>
<td>ACCESS-NAME</td>
<td>Access name</td>
</tr>
<tr>
<td>FILE-ORG</td>
<td>File organization</td>
</tr>
<tr>
<td>LOCK-MODE</td>
<td>LOCK MODE clause specification</td>
</tr>
<tr>
<td>MAXRL</td>
<td>Maximum record length</td>
</tr>
<tr>
<td>MINRL</td>
<td>Minimum record length</td>
</tr>
<tr>
<td>OPTIONAL</td>
<td>Presence or absence of OPTIONAL clause specification</td>
</tr>
<tr>
<td>RCS</td>
<td>Contents of compiler option RCS</td>
</tr>
<tr>
<td>REC-MODE</td>
<td>Record format</td>
</tr>
</tbody>
</table>

Table 3.8 $4 of JMP00221-U (Line sequential file)

<table>
<thead>
<tr>
<th>$4</th>
<th>Error Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>REC-ATR</td>
<td>Record item attribute</td>
</tr>
</tbody>
</table>

Table 3.9 $4 of JMP00221-U (Relative/Indexed file)

<table>
<thead>
<tr>
<th>$4</th>
<th>Error Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALT-KEY</td>
<td>Number of alternate record keys</td>
</tr>
<tr>
<td>$4</td>
<td>Error Contents</td>
</tr>
<tr>
<td>----</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>KEY-ATR</td>
<td>Key item attribute</td>
</tr>
<tr>
<td>KEY-DISP</td>
<td>Displacement of the key item in a record</td>
</tr>
<tr>
<td>KEY-DUPL</td>
<td>Presence or absence of DUPLICATES clause specification</td>
</tr>
<tr>
<td>KEY-LEN</td>
<td>Key length</td>
</tr>
<tr>
<td>REL-ATR</td>
<td>Attribute of the relative key item</td>
</tr>
<tr>
<td>REL-COL</td>
<td>Column count of the relative key item</td>
</tr>
<tr>
<td>REL-KEY</td>
<td>Presence or absence of RELATIVE KEY clause specification</td>
</tr>
<tr>
<td>REL-LEN</td>
<td>Length of the relative key item</td>
</tr>
<tr>
<td>REL-NAME</td>
<td>Name of the relative key item</td>
</tr>
</tbody>
</table>

Table 3.10 $4 of JMP00221-U (Print file)

<table>
<thead>
<tr>
<th>$4</th>
<th>Error Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADVANCING</td>
<td>Presence or absence of the WRITE statement in which ADVANCING is specified</td>
</tr>
<tr>
<td>CHAR-TYPE</td>
<td>Presence or absence of specification of how to write the CHARACTER TYPE clause for format 3</td>
</tr>
<tr>
<td>CODE</td>
<td>Presence or absence of specification of the CODE-SET clause</td>
</tr>
<tr>
<td>CTLCHR</td>
<td>Attribute of the control statement area</td>
</tr>
<tr>
<td>LINAGE</td>
<td>Presence or absence of specification of the LINAGE clause</td>
</tr>
<tr>
<td>LNG-ATR</td>
<td>Attribute and column count of the LINAGE data item</td>
</tr>
<tr>
<td>LNG1-INTEG</td>
<td>Integer of LINAGE data item 1</td>
</tr>
<tr>
<td>LNG1-NAME</td>
<td>Name of LINAGE data item 1</td>
</tr>
<tr>
<td>LNG2-INTEG</td>
<td>Integer of LINAGE data item 2</td>
</tr>
<tr>
<td>LNG2-NAME</td>
<td>Name of LINAGE data item 2</td>
</tr>
<tr>
<td>LNG3-INTEG</td>
<td>Integer of LINAGE data item 3</td>
</tr>
<tr>
<td>LNG3-NAME</td>
<td>Name of LINAGE data item 3</td>
</tr>
<tr>
<td>LNG4-INTEG</td>
<td>Integer of LINAGE data item 4</td>
</tr>
<tr>
<td>LNG4-NAME</td>
<td>Name of LINAGE data item 4</td>
</tr>
<tr>
<td>REC-LEN</td>
<td>Record length</td>
</tr>
</tbody>
</table>

Table 3.11 $4 of JMP00221-U (Presentation file)

<table>
<thead>
<tr>
<th>$4</th>
<th>Error Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESTINATION</td>
<td>Contents of SYMBOLIC DESTINATION clause</td>
</tr>
<tr>
<td>DESTINATION1</td>
<td>Presence or absence of DESTINATION-1 clause</td>
</tr>
<tr>
<td>DESTINATION2</td>
<td>Presence or absence of DESTINATION-2 clause</td>
</tr>
<tr>
<td>DESTINATION3</td>
<td>Presence or absence of DESTINATION-3 clause</td>
</tr>
<tr>
<td>DEST-CNTL</td>
<td>Presence or absence of DESTINATION CONTROL clause or data item length</td>
</tr>
<tr>
<td>END-KEY</td>
<td>Presence or absence of END KEY clause</td>
</tr>
<tr>
<td>MSG-CODE</td>
<td>Presence or absence of MESSAGE CODE clause or data item length</td>
</tr>
<tr>
<td>MSG-MODE</td>
<td>Presence or absence of MESSAGE MODE clause</td>
</tr>
<tr>
<td>$4</td>
<td>Error Contents</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>MSG-OWNER</td>
<td>Presence or absence of MESSAGE OWNER clause</td>
</tr>
<tr>
<td>PROC-CNTL</td>
<td>Presence or absence of PROCESSING CONTROL clause, or data item length</td>
</tr>
<tr>
<td>PROC-MODE</td>
<td>Presence or absence of PROCESSING MODE clause</td>
</tr>
<tr>
<td>PROC-TIME</td>
<td>Presence or absence of PROCESSING TIME clause</td>
</tr>
<tr>
<td>SEL-FUNC</td>
<td>Presence or absence of SELECTED FUNCTION clause</td>
</tr>
<tr>
<td>SESS-CNTL</td>
<td>Presence or absence of SESSION CONTROL clause</td>
</tr>
<tr>
<td>SYMBOLIC-DEST</td>
<td>Presence or absence of SYMBOLIC DESTINATION clause</td>
</tr>
<tr>
<td>UNIT-CNTL</td>
<td>Presence or absence of UNIT CONTROL clause or data item length</td>
</tr>
<tr>
<td>FMT-CNTL</td>
<td>Presence or absence of FORMAT CONTROL clause</td>
</tr>
<tr>
<td>FMT-CNTL1</td>
<td>Presence or absence of FORMAT CONTROL clause or length of data item 1</td>
</tr>
<tr>
<td>FMT-CNTL2</td>
<td>Presence or absence of FORMAT CONTROL clause or length of data item 2</td>
</tr>
<tr>
<td>FORMAT</td>
<td>Presence or absence of FORMAT clause</td>
</tr>
<tr>
<td>GROUP</td>
<td>Presence or absence of GROUP clause</td>
</tr>
<tr>
<td>MSG-CLASS</td>
<td>Presence or absence of MSG-CLASS clause</td>
</tr>
</tbody>
</table>

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 'S2 S1' 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 'S1' 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. 'S1' . S2**

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>
<thead>
<tr>
<th>$1</th>
<th>Description</th>
<th>Programmer response</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABANDONED</td>
<td>The program in a thread terminated abnormally, and so lock ownership could not be released normally.</td>
<td>If a thread terminates abnormally immediately before this error, determine the cause and respond accordingly.</td>
</tr>
<tr>
<td>CODE = 0xXXXX</td>
<td>A system error code is indicated.</td>
<td>Determine the cause while referring to the explanation on the system error code and respond accordingly.</td>
</tr>
</tbody>
</table>

**JMP0035I-U**

**THE SINGLETHREADED PROGRAM CANNOT BE EXECUTED IN THE MULTITHREAD MODE. 'S1'**

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 FJ_ICONV), and $2 is the error code or "INVALID-VL" of the 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. When $1 is FJ_ICONV, confirm that Interstage Charset Manager V9.4 is correctly installed.

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
The 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. 'S1' $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>
<thead>
<tr>
<th>$1</th>
<th>Description</th>
<th>Programmer response</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT-MISSMATCH</td>
<td>The runtime product is not equal to the level of the development environment.</td>
<td>Please confirm each Development Environment product type to each Runtime product type.</td>
</tr>
<tr>
<td>OBJECT= Development Environment product type</td>
<td>OBJECT is categorized by Development Environment product types.</td>
<td></td>
</tr>
<tr>
<td>RUNTIME= Runtime product type</td>
<td>RUNTIME is categorized by operatable Runtime product types.</td>
<td></td>
</tr>
<tr>
<td>MULTI-THREADING</td>
<td>Several operations of multi threads cannot run for the run time product.</td>
<td>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.</td>
</tr>
<tr>
<td>ENCODE-OPTION</td>
<td>There is an error in the ENCODE. Unicode cannot exist together with shift JIS encode with this run time product.</td>
<td>Please confirm the functional restriction, and correct the program.</td>
</tr>
</tbody>
</table>

**JMP0078I-U**

**THE PROGRAM NOT SPECIFIED THE PROGRAM WHICH SPECIFIED COMPIL Option RCS(UCS2,BE) WAS EXECUTED IN THE SAME PROCESS. 'S1'.**

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

<table>
<thead>
<tr>
<th>$1</th>
<th>Description</th>
<th>Programmer response</th>
</tr>
</thead>
<tbody>
<tr>
<td>E2BIG 7(0x7)</td>
<td>The code row storage region was insufficient for the converted data.</td>
<td>Ensure the length of the data item is large enough to handle the converted data.</td>
</tr>
<tr>
<td>ENOMEM 12(0xc)</td>
<td>Area shortage occurred.</td>
<td>Refer to &quot;D.1 Virtual Memory Shortages&quot;.</td>
</tr>
<tr>
<td>EINVAL 22(0x16)</td>
<td>An invalid code was encountered in the originating field.</td>
<td>Confirm that the character data stored in the data item of the originating field is neither MOVE, a partial reference, nor an imperfect condition.</td>
</tr>
<tr>
<td>EILSEQ 42(0x2a)</td>
<td>The data stored in the data item of the conversion origin is not in the range of the encode method.</td>
<td>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.</td>
</tr>
</tbody>
</table>
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 'S1'. '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 'S1'.S2 $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.

**Note**

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 'S1'.S2 $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**
**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

<table>
<thead>
<tr>
<th>0200</th>
<th>0201</th>
<th>0202</th>
<th>0204</th>
<th>0206</th>
<th>0207</th>
<th>0208</th>
<th>0209</th>
<th>0211</th>
<th>0212</th>
</tr>
</thead>
<tbody>
<tr>
<td>0213</td>
<td>0221</td>
<td>0222</td>
<td>0223</td>
<td>0224</td>
<td>0225</td>
<td>0253</td>
<td>0254</td>
<td>0259</td>
<td>0260</td>
</tr>
<tr>
<td>0261</td>
<td>0262</td>
<td>0263</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**

*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

<table>
<thead>
<tr>
<th>$1</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>SECTION</td>
<td>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.</td>
<td>Please confirm the section name [COBOL.KBD] of the key definition file.</td>
</tr>
<tr>
<td>KEY=key name</td>
<td>The mistake is found in the description of the key name. It is considered that the key set in $1 is not specified in the key definition file.</td>
<td>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 range. Please confirm the content of the key definition. Refer to &quot;Using Screens&quot; in Chapter 8 of the &quot;NetCOBOL User’s Guide&quot;.</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>$2</th>
<th>Description</th>
<th>Programmer response</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIND</td>
<td>Binding the method failed.</td>
<td>Make modification so that the object identifier specified in the INVOKE statement invoking method ($1) will be correct.</td>
</tr>
<tr>
<td>NULL</td>
<td>The method is invoked from the NULL object.</td>
<td>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.</td>
</tr>
</tbody>
</table>

### 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>
<thead>
<tr>
<th>$3</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARM=n</td>
<td>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). &quot;n&quot; indicates the position of the parameter which has an error.</td>
<td>Correct the program so that the method ($1) is called by the correct parameter.</td>
</tr>
<tr>
<td>VL</td>
<td>The method invoking statement specifying the ANY LENGTH clause is compiled by a compiler with a version and level not supporting it.</td>
<td>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.</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>$2</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAD-FAIL</td>
<td>Loading library failed for the general-purpose log feature.</td>
<td>Refer to the $3 character string and confirm that the Interstage Business Application Server is installed correctly.</td>
</tr>
<tr>
<td>ENOMEM</td>
<td>Insufficient memory.</td>
<td>Check the capacity of the system free memory.</td>
</tr>
<tr>
<td>FUNCTION</td>
<td>An error occurred in the function of the general-purpose log link feature.</td>
<td>Function names are displayed in $1 and error codes are displayed in $3. See the Interstage Business Application Server manual.</td>
</tr>
<tr>
<td>NOT-SYMBOL</td>
<td>The required function is not found in the general-purpose log link feature.</td>
<td>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.</td>
</tr>
<tr>
<td>INTERNAL-ERROR</td>
<td>An internal error was detected.</td>
<td>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.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Destination</th>
<th>Environment Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>COBSOLE</td>
<td>@CBR_DISPLAY_CONSOLE_OUTPUT</td>
</tr>
<tr>
<td>SYSOUT or not specified</td>
<td>@CBR_DISPLAY_SYSOUT_OUTPUT</td>
</tr>
<tr>
<td>SYSERR</td>
<td>@CBR_DISPLAY_SYSERR_OUTPUT</td>
</tr>
</tbody>
</table>

- 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

<table>
<thead>
<tr>
<th>$3</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONVERT ERROR=0xXXXX</td>
<td>When the STRING or UNSTRING statement was executed, an error was detected when changing matched type codes on the receiving side.</td>
<td>Refer to the system error codes.(*1)</td>
</tr>
<tr>
<td>NOT NUMERIC ITEM</td>
<td>Non-transferable data (non-numeric characters and invalid signs) to number items were detected during an UNSTRING execution.</td>
<td>Check the data item type on the receiving and sending sides.</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>0301</th>
<th>0302</th>
<th>0310</th>
<th>0311</th>
<th>0313</th>
<th>0320</th>
<th>0321</th>
<th>0322</th>
<th>0323</th>
<th>0324</th>
</tr>
</thead>
<tbody>
<tr>
<td>0325</td>
<td>0326</td>
<td>0327</td>
<td>0328</td>
<td>0330</td>
<td>0331</td>
<td>0340</td>
<td>0350</td>
<td>0360</td>
<td>0362</td>
</tr>
<tr>
<td>0363</td>
<td>0364</td>
<td>0365</td>
<td>0370</td>
<td>0371</td>
<td>0372</td>
<td>0373</td>
<td>0374</td>
<td>0375</td>
<td>0376</td>
</tr>
<tr>
<td>0392</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**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)

<table>
<thead>
<tr>
<th>$3</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC-METHOD or ACC-METHOD (98XX)</td>
<td>The specified file access method is invalid. (*)</td>
<td>Specify the file access method correctly.</td>
</tr>
<tr>
<td>BLKED-FILE</td>
<td>The file cannot be used because of a CLOSE statement error.</td>
<td>Check and eliminate the cause of the CLOSE statement error.</td>
</tr>
<tr>
<td>CNVER = xxxx</td>
<td>Character code conversion failed. xxx: Hexadecimal notation</td>
<td>Check for and eliminate the cause of the error according to the system error code.</td>
</tr>
<tr>
<td>CRT-WINDOW</td>
<td>Creating a window failed.</td>
<td>The cause may be a shortage of virtual memory. Examine the cause and take measures. (5)</td>
</tr>
<tr>
<td>ENV-ERR</td>
<td>The operating environment of the application has not been opened.</td>
<td>Check that the application has started in Apcoordinator.</td>
</tr>
<tr>
<td>$3</td>
<td>Description</td>
<td>Programmer Response</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>ERFLD=xxxx</td>
<td>An error occurred while accessing the input-output file. Error code from the system xxxx: Expressed in hexadecimal</td>
<td>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)</td>
</tr>
<tr>
<td>ERRCD=xxxx</td>
<td>A presentation file access error occurred.</td>
<td>Check for and eliminate the cause of the error according to the manuals of the connected products. (*3)</td>
</tr>
<tr>
<td>EXCL-ERROR</td>
<td>An exclusive error occurred.</td>
<td>Re-execute. If the exclusive error occurs repeatedly, confirm that the error does not affect operation.</td>
</tr>
<tr>
<td>EXFH-INF</td>
<td>Opening the External file handler information file failed, or contents of the External file handler information file are invalid.</td>
<td>Check the path name or contents of the External file handler information file.</td>
</tr>
<tr>
<td>FCB</td>
<td>The FCB control statement is invalid.</td>
<td>Check the FCB control statement.</td>
</tr>
<tr>
<td>FILE-LOCK</td>
<td>The file is exclusively used by another user, or the file cannot be used exclusively because it is being used by another user.</td>
<td>Re-execute. If the exclusive error occurs repeatedly, confirm that the error does not affect operation.</td>
</tr>
<tr>
<td>FONT-TABLE</td>
<td>The font table name specification is invalid.</td>
<td>Specify the correct font table name.</td>
</tr>
<tr>
<td>FTNCD=xxxx</td>
<td>Error code from the system xxxx: Expressed in hexadecimal</td>
<td>Check for and eliminate the cause of the error according to the system error code. (*2)</td>
</tr>
<tr>
<td>LOAD</td>
<td>The subprogram could not be loaded.</td>
<td>Check the program runtime environment.</td>
</tr>
<tr>
<td>LOAD=xxxxxx</td>
<td>Loading another product failed.</td>
<td>Remove the cause of the error by referring to the set error code. (*6)</td>
</tr>
<tr>
<td>LOAD=xxxxxx type (module name)</td>
<td>Loading failed. xxxxx: hexadecimal One of the following BTRV/RDM/EXFH/PIPE is set in the type. A called DLL name is set in the module name.</td>
<td>Refer to the set error code. (*6)</td>
</tr>
<tr>
<td>LOAD-EXFH</td>
<td>Start environment of the External file handler failed.</td>
<td>Possible causes are as follows. Eliminate the cause of error and then rerun the program.</td>
</tr>
<tr>
<td>LOCK-FULL</td>
<td>Many application requested a file to be opened. As a result, the lock table became insufficient.</td>
<td>Re-execute. If the error occurs repeatedly, confirm that the error does not affect operation. (*9)</td>
</tr>
<tr>
<td>$3</td>
<td>Description</td>
<td>Programmer Response</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>NON-FILE</td>
<td>The file did not exist when the OPEN statement without OUTPUT specified was executed.</td>
<td>Before executing the program, create the file.</td>
</tr>
<tr>
<td>NON-REEL</td>
<td>The CLOSE statement with REEL or UNIT specified was executed.</td>
<td>Correct the program.</td>
</tr>
<tr>
<td>NOT-UNIQUE</td>
<td>Allocated file has a duplicate key.</td>
<td>Make the keys duplicate in the program specification.</td>
</tr>
<tr>
<td>OPEN-MODE</td>
<td>The specified file open mode is invalid.</td>
<td>Specify the correct open mode, then open the file.</td>
</tr>
<tr>
<td>PAPERSIZE</td>
<td>The paper size specified for the print information file is invalid.</td>
<td>Specify the correct paper size for the print information file.</td>
</tr>
<tr>
<td>PRTFORM</td>
<td>The print format specified for the print information file is invalid.</td>
<td>Specify the correct print format for the print information file.</td>
</tr>
<tr>
<td>READ-ONLY</td>
<td>A read-only file is used, or the specified file name is invalid.</td>
<td>Either change the access permission to allow writing to the file or specify the correct file</td>
</tr>
<tr>
<td>REC-MODE</td>
<td>The specified record format is invalid.</td>
<td>Specify the correct record format.</td>
</tr>
<tr>
<td>SESS-END</td>
<td>The OPEN statement was executed after session has ended or been interrupted.</td>
<td>Correct this so that the OPEN statement is not executed before the session has started.</td>
</tr>
<tr>
<td>RMERR=xxxxxx</td>
<td>Error code from the runtime system xxxx: Expressed in hexadecimal</td>
<td>A system error probably occurred. Please open a support incident to obtain assistance from a supplier. (*4)</td>
</tr>
<tr>
<td>THREAD=xxxxxx</td>
<td>Thread synchronization failed. XXXXXX: Hexadecimal notation</td>
<td>Remove the cause of error while referring to the indicated error code. (*6)</td>
</tr>
<tr>
<td>TIMEOUT</td>
<td>The OPEN statement was executed after the timeout.</td>
<td>Correct this so that the OPEN statement is not executed after the timeout.</td>
</tr>
<tr>
<td>UNSUPPORT</td>
<td>The file does not support the specified function.</td>
<td>Check the file attribute, or confirm that there is no physical error. (*7)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The multithread function is not supported in the access product, even though the program was executed in multithread mode.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check the specified file of the file system function range. (*8)</td>
</tr>
<tr>
<td>WIN-CLASS</td>
<td>Registering the window class failed.</td>
<td>There may be a shortage of virtual memory. (*5)</td>
</tr>
</tbody>
</table>

*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, UCS-2, 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 details on error codes to the RDM file, refer to "error code list" in "RDB/7000 Manual" and "communication error detail codes" in "SymfoWARE7000 DB Collaboration Help".
- For Btrieve file error codes, refer to the Btrieve file manual ("BTRIEVE Programmer's Manual" published by Btrieve Technologies, Inc.) 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:
  - Multithread - 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)

<table>
<thead>
<tr>
<th>$3</th>
<th>Description</th>
<th>Check Item in Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>INV-BLKSZ</td>
<td>The block length is invalid.</td>
<td>Length specified in the BLOCK CONTAINS clause</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td>Check Item in Program</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>INV-CODEST</td>
<td>The code set is invalid.</td>
<td>Character code specified in the CODE SET clause</td>
</tr>
<tr>
<td>INV-COLSEQ</td>
<td>The collating sequence is invalid.</td>
<td>Alphabet name specified in the PROGRAM COLLATING SEQUENCE clause</td>
</tr>
<tr>
<td>INV-DELMTR</td>
<td>The record delimiter is invalid.</td>
<td>Data specified in the ORGANIZATION, and RECORD clauses (*1)</td>
</tr>
<tr>
<td>INV-KEYDUP</td>
<td>Determination of whether to specify a key in duplicate (DUPLICATES) is incorrect.</td>
<td>Presence or absence of specification of the RECORD KEY, ALTERNATE RECORD KEY, and DUPLICATES clauses</td>
</tr>
<tr>
<td>INV-KEYLEN</td>
<td>The key length of the allocated file conflicts with the definition in the program.</td>
<td>Data name length specified in the RECORD KEY and ALTERNATE RECORD KEY clauses (*2)</td>
</tr>
<tr>
<td>INV-KEYSTR</td>
<td>The key structure is invalid.</td>
<td>Data name length and data name count specified in the RECORD KEY and ALTERNATE RECORD KEY clauses</td>
</tr>
<tr>
<td>INV-LRECL</td>
<td>The record length of the allocated file conflicts with the definition in the program.</td>
<td>Data specified in the ORGANIZATION clause. Record length specified in the RECORD CONTAINS clause.</td>
</tr>
<tr>
<td>INV-RKP</td>
<td>The relative key position of the assigned file conflicts with the definition in the program.</td>
<td>Relative position in the record of the data name specified in the RECORD KEY and ALTERNATE RECORD KEY clauses</td>
</tr>
<tr>
<td>INV-KEYRCS</td>
<td>The key code system of the allocated file conflicts with the operating code system in the program.</td>
<td>Data specified in the compiler option RCS</td>
</tr>
<tr>
<td>KEY-ATTR</td>
<td>The key attribute of the allocated file conflicts with the definition in the program.</td>
<td>Data name attribute specified in the RECORD KEY and ALTERNATE RECORD KEY clauses</td>
</tr>
<tr>
<td>NON-ESDS</td>
<td>A sequential file was not allocated when specified.</td>
<td>Data specified in the ORGANIZATION clause</td>
</tr>
<tr>
<td>NON-KSDDS</td>
<td>An indexed file was not allocated when specified.</td>
<td></td>
</tr>
<tr>
<td>NON-RRDS</td>
<td>A relative file was not allocated when specified.</td>
<td></td>
</tr>
<tr>
<td>NON-TEXT</td>
<td>A text file was not allocated as a print file.</td>
<td></td>
</tr>
</tbody>
</table>

*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.
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

<table>
<thead>
<tr>
<th>$2</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOT ASSIGNED</td>
<td>The environment variable is not specified for an access name, and a file name is blank.</td>
<td>Specify the file name of the environment variable or data name specification.</td>
</tr>
<tr>
<td>INVALID ASSIGN</td>
<td>An analysis error occurred in the specified character strings following the file name.</td>
<td>Check the followings:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Is an effective character string specified for a file function?(*1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Is the combination of specified function and file organization correct?(*2)</td>
</tr>
<tr>
<td>INVALID PATH-NAME</td>
<td>The path name of the file contains an error.</td>
<td>Check the path name of the file.</td>
</tr>
</tbody>
</table>

*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".

**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>
<thead>
<tr>
<th>$3</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Win32] ACC-XAP</td>
<td>An error occurred while accessing the digital form application framework.</td>
<td>Refer to the description in the XML Option Guide and fix the cause of the error.</td>
</tr>
<tr>
<td>ALTD-LEN</td>
<td>The record length specified in the REWRITE statement is different from the length of an existing record.</td>
<td>Do not change the length of an existing record when updating the record.</td>
</tr>
<tr>
<td>BLKED-FILE</td>
<td>The file cannot be used because of a CLOSE statement error.</td>
<td>If message JMP0310I-I is displayed before JMP0320I-I, eliminate the cause of the error according to message JMP0310I-I.</td>
</tr>
<tr>
<td>CNVER = xxxx</td>
<td>Character code conversion failed. xxxx: Hexadecimal notation</td>
<td>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.</td>
</tr>
<tr>
<td>ERRCD=xxxx</td>
<td>A presentation file access error occurred.</td>
<td>Check for and eliminate the cause of the error according to the manuals of the linked products. (*)1</td>
</tr>
<tr>
<td>EXCEED-LEN</td>
<td>The length of the record to be written exceeds the maximum record length specified in the program.</td>
<td>Set the record length to within the specified maximum record length.</td>
</tr>
<tr>
<td>EXCL-ERROR</td>
<td>An exclusive error occurred.</td>
<td>Re-execute. If the exclusive error occurs repeatedly, confirm that the error does not affect operation.</td>
</tr>
<tr>
<td>FCB</td>
<td>The FCB contents are invalid.</td>
<td>Check the FCB contents.</td>
</tr>
<tr>
<td>FDBK=xxxx</td>
<td>An error occurred while accessing the input-output file. xxxx: Expressed in hexadecimal</td>
<td>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</td>
</tr>
<tr>
<td>FONT</td>
<td>A font that did not exist in the system was specified for output. Or, the specified font table could not be opened.</td>
<td>Check the specified font name, and install necessary fonts in the system. Or, check if the correct font table name has been specified.</td>
</tr>
<tr>
<td>FOVL</td>
<td>The specified folder containing the forms overlay definition is invalid, or the forms overlay definition is invalid.</td>
<td>Check the initial file to determine if the folder containing the correct forms overlay definition is specified.</td>
</tr>
<tr>
<td>FTNCD=xxxx</td>
<td>Error code from the system xxxx: Expressed in hexadecimal</td>
<td>Check for and eliminate the cause of the error according to the system error code. (*)2</td>
</tr>
<tr>
<td>INV-CHAR</td>
<td>A line sequential file record or print file record contains an invalid character.</td>
<td>Check the data contents.</td>
</tr>
<tr>
<td>INV-LEN</td>
<td>The record length specified in the WRITE or REWRITE statement is invalid.</td>
<td>Specify the correct length of the record to be written.</td>
</tr>
<tr>
<td>KEY-CHANGE</td>
<td>The key value at request for updating the record was different from the key value at reading of the record.</td>
<td>Correct the program so that the key value is not changed at updating of the record.</td>
</tr>
<tr>
<td>LOAD</td>
<td>The subprogram could not be loaded.</td>
<td>Check the program runtime environment.</td>
</tr>
<tr>
<td>NO-TRANS</td>
<td>Some characters cannot be converted into a code set.</td>
<td>Check the data contents.</td>
</tr>
<tr>
<td>Error Code</td>
<td>Description</td>
<td>Action</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>--------</td>
</tr>
<tr>
<td>OVER-RECLN</td>
<td>The length of the print data area that was to be output from the line record exceeded the maximum length.</td>
<td>Correct the length of the print data area so that it is within the determined maximum length (*5).</td>
</tr>
<tr>
<td>PHYSIC-ERR</td>
<td>A physical error occurred.</td>
<td>Check the file contents (physical structure).</td>
</tr>
<tr>
<td>READ-ONLY</td>
<td>A read-only file is used.</td>
<td>Change the access permission to allow writing to the file.</td>
</tr>
<tr>
<td>REC-LOCK</td>
<td>The record is exclusively used by another user, or the record cannot be used exclusively because it is being used by another user.</td>
<td>Re-execute. If the exclusive error occurs repeatedly, confirm that the error does not affect operation.</td>
</tr>
<tr>
<td>R.KEY-ERR</td>
<td>The relative key contents conflict with the definition specified in the PICTURE clause during random or dynamic access. The relative key item value is 0.</td>
<td>Specify a data item size in the PICTURE clause large enough to store the maximum value of the relative key. Specify a non-zero value for the relative key item.</td>
</tr>
<tr>
<td>RMERR=xxxx</td>
<td>Error code from the runtime system xxxx: Expressed in hexadecimal</td>
<td>A system error probably occurred. Collect the error information, then Contact Fujitsu Software Support. (*3)</td>
</tr>
<tr>
<td>RRN&gt;R.KEY</td>
<td>When the READ or WRITE statement is executed for sequential processing, the relative record number exceeds the maximum value of the relative key item.</td>
<td>Specify a size of the relative key item large enough to store the maximum relative record number of the file</td>
</tr>
<tr>
<td>SESS-END</td>
<td>The READ statement was executed after session has ended or been interrupted.</td>
<td>Correct this so that the READ statement is not executed before the session has started.</td>
</tr>
<tr>
<td>THREAD=xxxxxx</td>
<td>Thread synchronization failed. Xxxxxx: Hexadecimal notation</td>
<td>Remove the cause of error while referring to the indicated error code. (*4)</td>
</tr>
<tr>
<td>TIMEOUT</td>
<td>The READ or WRITE statement was executed after the timeout.</td>
<td>Correct this so that the READ or WRITE statement is not executed after the timeout.</td>
</tr>
<tr>
<td>UNSUPPORT</td>
<td>When using the External File Handler is to be used, a START statement with the FIRST phrase specified for indexed file cannot be executed.</td>
<td>- 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. - 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.</td>
</tr>
</tbody>
</table>

*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 RDM file, refer to "error code list" in "RDB/7000 Manual" and "communication error detail codes" in "SymfoWARE7000 DB Collaboration Help".
- For details on error codes to the Btrieve file, refer to the Btrieve file 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:

\[ 32 \text{ Kbytes} > \text{Output record length} + 2 + 100 \times \text{Number of basic items} \]

**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-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

<table>
<thead>
<tr>
<th>$3</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT-END</td>
<td>After a file at end condition was produced, the READ statement was re-executed.</td>
</tr>
<tr>
<td>DUPL-OPEN</td>
<td>The OPEN statement was executed for an open file.</td>
</tr>
<tr>
<td>LOCKED</td>
<td>After the CLOSE statement with LOCK phrase specified was executed an attempt was made to open the file.</td>
</tr>
<tr>
<td>NO-READ</td>
<td>The previous statement is not a successful READ statement.</td>
</tr>
<tr>
<td>NOSPACE</td>
<td>After a no-space condition was produced, the WRITE statement was re-executed.</td>
</tr>
<tr>
<td>NOT-OPEND</td>
<td>An input-output statement was executed for a closed file.</td>
</tr>
<tr>
<td>OPEN-MODE</td>
<td>The OPEN mode is invalid or the combination of the OPEN mode and the input-output statement is invalid.</td>
</tr>
<tr>
<td>POS-ERROR</td>
<td>The file position indicator is undefined.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>$2</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABANDONED</td>
<td>The program in a thread terminated abnormally, and so lock ownership could not be released normally.</td>
<td>If a thread terminates abnormally immediately before this error, determine the cause and respond accordingly.</td>
</tr>
<tr>
<td>CODE = 0xXXXX</td>
<td>A system error code is indicated.</td>
<td>Determine the cause while referring to the explanation on the system error code, then respond accordingly.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>$2</th>
<th>Field Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIND</td>
<td>Binding direction</td>
</tr>
<tr>
<td>CMOD</td>
<td>Copy modification module name</td>
</tr>
<tr>
<td>DOC-INFO</td>
<td>Document name identification information</td>
</tr>
<tr>
<td>C-NO</td>
<td>Number of copies</td>
</tr>
<tr>
<td>FCB</td>
<td>FCB name</td>
</tr>
<tr>
<td>FID</td>
<td>Format definition deck name</td>
</tr>
<tr>
<td>FORM</td>
<td>Forms code</td>
</tr>
<tr>
<td>FOVL</td>
<td>Forms overlay module name</td>
</tr>
<tr>
<td>F-NO</td>
<td>Number of forms overlay fields</td>
</tr>
<tr>
<td>HOP</td>
<td>Hopper</td>
</tr>
<tr>
<td>ID</td>
<td>Control record ID</td>
</tr>
<tr>
<td>LEN</td>
<td>Control record length</td>
</tr>
<tr>
<td>LOAD</td>
<td>Dynamic loading</td>
</tr>
<tr>
<td>MODE</td>
<td>Control mode</td>
</tr>
<tr>
<td>OFST</td>
<td>Print origin position</td>
</tr>
<tr>
<td>OSTK</td>
<td>Offset stack</td>
</tr>
<tr>
<td>PFRM</td>
<td>Printing format</td>
</tr>
<tr>
<td>POST</td>
<td>Printing surface positioning</td>
</tr>
<tr>
<td>PRTA</td>
<td>Unprintable area</td>
</tr>
<tr>
<td>RSV</td>
<td>Reserved area (not blank)</td>
</tr>
<tr>
<td>R-NO</td>
<td>Forms overlay printing count</td>
</tr>
<tr>
<td>SIDE</td>
<td>Printing surface specification</td>
</tr>
<tr>
<td>SIZE</td>
<td>Forms size</td>
</tr>
<tr>
<td>STK</td>
<td>Stacker</td>
</tr>
<tr>
<td>S-NO</td>
<td>Copy correction start number</td>
</tr>
<tr>
<td>T-NO</td>
<td>Number of character array table for copy correction</td>
</tr>
<tr>
<td>WDTH</td>
<td>Binding width</td>
</tr>
<tr>
<td>XTB</td>
<td>Name of character array table for copy correction</td>
</tr>
</tbody>
</table>

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.

JMP03651-U

**DUPLICATE FONT NAMES WERE FOUND. \texttt{"$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.

JMP03701-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.

JMP03711-U

**ENVIRONMENT INFORMATION FILE ERROR TO PERFORM SQL. \texttt{"$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 JMP03711-U (with ODBC)

<table>
<thead>
<tr>
<th>$1</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>\texttt{@ODBC_Inf}</td>
<td>No ODBC information file was specified, or the specified ODBC information file does not exist.</td>
</tr>
<tr>
<td>\texttt{@SQL_DATASRC}</td>
<td>No data source name was specified.</td>
</tr>
<tr>
<td>\texttt{@SQL_SERVER}</td>
<td>No server name was specified.</td>
</tr>
<tr>
<td>\texttt{@SQL_USERID}</td>
<td>No user ID was specified.</td>
</tr>
<tr>
<td>\texttt{@SQL_PASSWORD}</td>
<td>No password was specified.</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>$1</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAD</td>
<td>The runtime library could not be loaded.</td>
<td>Eliminate the cause of the error according to the detail code (*1) written for $2.</td>
</tr>
<tr>
<td>FREE</td>
<td>The runtime library could not be loaded.</td>
<td>Eliminate the cause of the error according to the detail code (*1) written for $2.</td>
</tr>
</tbody>
</table>

*1 : See "Appendix A System Error Codes", and the on-line help of "Visual C++".

$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.

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.

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

<table>
<thead>
<tr>
<th>$1</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Win32] INV-OBJECT-MODULE</td>
<td>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.</td>
<td>Recompile the program with a V50 or later compiler.</td>
</tr>
<tr>
<td>INV-SCOPE-THREAD</td>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td>INV-SCOPE-OBJECT-INSTANCE</td>
<td>An embedded SQL statement written in the program definition is executed in an operating environment where OBJECT_INSTANCE is specified for the connection scope in the ODBC information file.</td>
<td>Change the value specified for the connection scope. Alternatively, change the program so that only the embedded SQL statement written in the class definition is executed.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>$1</th>
<th>Description</th>
<th>Programmer response</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOT-INSTALLED</td>
<td>The SymfoWARE client is not installed normally.</td>
<td>Ensure that the SymfoWARE client is installed normally.</td>
</tr>
<tr>
<td>ENVIRONMENT-ERROR: SymfoWARE error message</td>
<td>A SymfoWARE operation error has occurred.</td>
<td>A SymfoWARE error message is output simultaneously, so respond accordingly while referring to the SymfoWARE/RDB Message Reference Manual.</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>$1</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC-ERROR</td>
<td>A window handle allocation error occurred.</td>
<td>Check for and eliminate the cause of the error according to the FORM RTS code written for $2. (*1)</td>
</tr>
</tbody>
</table>
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

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

<table>
<thead>
<tr>
<th>$1</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>16 is set in the special register SORT-STATUS.</td>
<td>Check &quot;how to use sort&quot;.</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Programmer Response</td>
</tr>
<tr>
<td>---</td>
<td>------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>50</td>
<td>Memory is insufficient</td>
<td>Modify the environment to allocate enough memory (*1)</td>
</tr>
<tr>
<td>51</td>
<td>An error occurred during input processing for the record to be sorted.</td>
<td>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.</td>
</tr>
<tr>
<td>52</td>
<td>Memory is insufficient.</td>
<td>Modify the environment to allocate enough memory. (*1)</td>
</tr>
<tr>
<td>53</td>
<td>An error occurred during input processing for the record to be sorted.</td>
<td>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.</td>
</tr>
<tr>
<td>100</td>
<td>An error occurred in the sort-merge program.</td>
<td>Check whether the record length complies with the COBOL specification.</td>
</tr>
<tr>
<td>101</td>
<td>An error occurred during input processing for the record to be sorted.</td>
<td>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.</td>
</tr>
<tr>
<td>102</td>
<td>An error occurred during output processing for the record to be sorted.</td>
<td></td>
</tr>
<tr>
<td>103</td>
<td>An error occurred during input processing for the record to be merged.</td>
<td>Correct the program so that it merges the records in the target file after sorting.</td>
</tr>
<tr>
<td>110</td>
<td>The address of the record to be sorted could not be obtained.</td>
<td></td>
</tr>
<tr>
<td>111</td>
<td>The record length is invalid.</td>
<td></td>
</tr>
<tr>
<td>112</td>
<td>An error occurred during input processing for the record to be merged.</td>
<td>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.</td>
</tr>
<tr>
<td>208</td>
<td>An error occurred when a temporary file (for sorting and merging) was opened.</td>
<td>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.</td>
</tr>
<tr>
<td>212</td>
<td>The size of the temporary file (for sorting and merging) is insufficient.</td>
<td>Modify the environment (e.g., hard disk) to allocate a large enough temporary file.</td>
</tr>
<tr>
<td>214</td>
<td>A temporary file (for sorting and merging) cannot be created.</td>
<td>Modify the environment (e.g., hard disk) to allocate a large enough temporary file.</td>
</tr>
<tr>
<td>224</td>
<td>An error occurred during write to a temporary file (for sorting and merging).</td>
<td>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.</td>
</tr>
<tr>
<td>250</td>
<td>A sort-merge program error occurred.</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>A PowerBSORT error occurred while using PowerBSORT.</td>
<td>Refer to &quot;Error Detail Codes of BSORT Function (errdetail)&quot; in the <em>PowerBSORT User's Guide</em></td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>$1</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABANDONED</td>
<td>The program in a thread terminated abnormally, and so lock ownership could not be released normally.</td>
<td>If a thread terminated abnormally immediately before this error, determine the cause of error and respond accordingly.</td>
</tr>
<tr>
<td>CODE = 0xXXXX</td>
<td>A system error code is indicated.</td>
<td>Determine the cause of error while referring to the explanation on the system error code, then respond accordingly.</td>
</tr>
</tbody>
</table>
**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.

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**3.3.7 JMP0700 - JMP0799**

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**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

<table>
<thead>
<tr>
<th>$2</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERRCD = 0xXXXX</td>
<td>A system error code (error) is indicated.</td>
<td>Refer to the system error code description.</td>
</tr>
</tbody>
</table>

JMP0726I-W

- 871 -
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 (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

<table>
<thead>
<tr>
<th>$2</th>
<th>Description</th>
<th>Detailed information ($3)</th>
<th>Programmer Response</th>
</tr>
</thead>
</table>
| 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. | If an error message is displayed, refer to the contents of the displayed message and troubleshoot the problem. |
<p>|          |                                                 |                                                                                           | If logging of COBOL ERROR REPORT is necessary, review the runtime.                  |</p>
<table>
<thead>
<tr>
<th>$2</th>
<th>Description</th>
<th>Detailed information ($3)</th>
<th>Programmer Response</th>
</tr>
</thead>
</table>
|     |             | API=api-name, CODE=errorcode (in hexadecimal) | environment, including the following:  
- Whether COBOL is correctly installed  
- Whether there is sufficient memory  
- Whether the system is in a state other than the busy state |
|     |             | API=API-name, CODE=error-code (hexadecimal) | Please open a support incident to obtain assistance from a Supplier. |
|     |             | DOMAIN=domain-name, USER=user-name, PASSWORD=password | Please open a support incident to obtain assistance from a Supplier. |
|     |             | NAME=service-name | Open Service from the Control panel and activate the service ($3). |
|     |             | 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>
<thead>
<tr>
<th>$1</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>[Win32] The remote debugger resources have not been installed correctly.</td>
<td>Install NetCOBOL correctly.</td>
</tr>
<tr>
<td></td>
<td>[Winx64] The NetCOBOL Studio resources have not been installed correctly.</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>winsock1.1(TCP/IP) is not supported.</td>
<td>Re-execute in an environment that can use winsock1.1.</td>
</tr>
<tr>
<td>2</td>
<td>[Win32] There is an error in the investigation procedure in the environment variable @CBR_ATTACH_TOOL or @CBR_JUSTINTIME_DEBUG.</td>
<td>$2 is not supported in remote debugging. Specify a supported format. The string specified in the environment variable is set in $2.</td>
</tr>
<tr>
<td></td>
<td>[Winx64] There is an error in the investigation procedure in the environment variable @CBR_ATTACH_TOOL.</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>[Win32] There is an error in the access destination in the environment variable @CBR_ATTACH_TOOL or @CBR_JUSTINTIME_DEBUG.</td>
<td>Check that there are no spelling mistakes in the host name for accessing the client.</td>
</tr>
<tr>
<td></td>
<td>[Winx64] There is an error in the access destination in the environment variable @CBR_ATTACH_TOOL.</td>
<td>Check that the host name for accessing the client has been defined.</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>Check that there are no errors in the IP address definition for resolving the host name.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check that there are no mistakes in the format for the IP address.</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>There is a value that is outside the range that can be set for the port number. Set a range from 1024 to 65535.</td>
</tr>
<tr>
<td>20</td>
<td>Access to the client failed.</td>
<td>Check that the client remote debugger connector runs on a computer specified in the access destination.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check that the access is permitted according to the client remote debugger connector access restriction.</td>
</tr>
<tr>
<td>21</td>
<td>The version of the remote debugger is not appropriate.</td>
<td>Make sure that the versions of the client and server debuggers are compatible.</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>$1</th>
<th>Description</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>The packet might have been falsified, so access to the client was interrupted.</td>
<td>Verify with the network administrator that the environment is secure.</td>
</tr>
<tr>
<td>1</td>
<td>Access to the client was interrupted.</td>
<td>Check whether access was denied because of a restriction on access to the client remote debugger connector. &lt;br&gt;Access was interrupted because the client application was closed. Verify that the client remote debugger connector has started. &lt;br&gt;Verify that the network can be used.</td>
</tr>
</tbody>
</table>

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

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
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 verb-sequence-number-in-a-line) 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

<table>
<thead>
<tr>
<th>$1</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>USING PARAMETER NUMBER</td>
<td>Match the number of USING phrase parameters</td>
</tr>
<tr>
<td>USING nTH PARAMETER</td>
<td>Match the size of the nth USING phrase parameters</td>
</tr>
<tr>
<td>(nTH = 1ST, 2ND, 3RD, 4TH...)</td>
<td></td>
</tr>
<tr>
<td>RETURNING PARAMETER</td>
<td>Match the size of the RETURNING phrase parameters</td>
</tr>
</tbody>
</table>

The following information is specified in $2 and $3:
- $2 : A program name, or a class name and method name
- $3 :
  - [Winx64] The statement number (line-information [COPY qualification-value] line-number).
**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

<table>
<thead>
<tr>
<th>0901</th>
<th>0902</th>
<th>0903</th>
<th>0904</th>
<th>0905</th>
<th>0930</th>
<th>0931</th>
<th>0932</th>
<th>0933</th>
<th>0934</th>
</tr>
</thead>
<tbody>
<tr>
<td>0935</td>
<td>0936</td>
<td>0937</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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>
<thead>
<tr>
<th>Severity code</th>
<th>Level</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>I (INFORMATION)</td>
<td>Informational message</td>
<td>This information is generated when a report file or a dump file has been created.</td>
</tr>
<tr>
<td>W (WARNING)</td>
<td>Minor error</td>
<td>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.</td>
</tr>
<tr>
<td>E (ERROR)</td>
<td>Medium error</td>
<td>No report file and no dump file are created.</td>
</tr>
<tr>
<td>U (UNRECOVERABLE)</td>
<td>Fatal error</td>
<td>The execution is canceled and the program terminated abnormally.</td>
</tr>
</tbody>
</table>

**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.

<p>| | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0001</td>
<td>0002</td>
<td>0003</td>
<td>0004</td>
<td>0005</td>
<td>0006</td>
<td>0007</td>
<td>0008</td>
<td>0009</td>
</tr>
<tr>
<td>0011</td>
<td>0012</td>
<td>0013</td>
<td>0014</td>
<td>0099</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**JMW0001I-I**

THE ERROR WAS DETECTED IN `$1`. `$2`. `$3`. `$4`. `$5`. `$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".

**JMW0002I-E**

THE ERROR WAS DETECTED IN `$1`. `$2`. `$3`. `$4`. `$5`. `$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".
THE START PARAMETER OF THE COBOL ERROR REPORT IS INVALID. 'S1'

**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.

THE OUTPUT OF THE ERROR DETECTION MESSAGE TO COMPUTER 'S1' FAILED IN THE COBOL ERROR REPORT. 'S2'

**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".

THE ERROR OCCURRED IN THE COBOL ERROR REPORT. 'S1'

**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.

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.

- 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. '$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. '$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 WAS DETECTED IN \'$$1\'. \'$$2\'. \'$$3\'. \'$$4\'. \'$$5\'. \'$$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 WAS DETECTED IN \'$$1\'. \'$$2\'. \'$$3\'. \'$$4\'. \'$$5\'. \'$$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.

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>
<thead>
<tr>
<th>CODE</th>
<th>Explanation</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 (0x02)</td>
<td>Specified file cannot be found.</td>
<td>[Win32] Verify the runtime environment information @CBR-SCR-KEYDEFFILE is specified correctly.</td>
</tr>
<tr>
<td>4 (0x04)</td>
<td>The file cannot be accessed.</td>
<td>Verify the runtime environment.</td>
</tr>
<tr>
<td>5 (0x05)</td>
<td>Access is denied.</td>
<td>Verify whether the file is allocated correctly.</td>
</tr>
<tr>
<td>6 (0x06)</td>
<td>Invalid handle.</td>
<td>Verify the runtime environment.</td>
</tr>
</tbody>
</table>
| 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:  
- Stop all 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 |
| 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:  
- The folders specified in the environment variable PATH  
- The folder in which the calling program resides  
- Current folder  
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. |
<p>| 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. |</p>
<table>
<thead>
<tr>
<th>CODE</th>
<th>Explanation</th>
<th>Programmer Response</th>
</tr>
</thead>
</table>
| 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.  
- The folders specified in the environment variable PATH  
- The folder of the calling program  
- Current folder |
| 1224 (0x4c8) | The demanded operation cannot be executed in the file in the user map section. | The file is used exclusively. Verify the following:  
- A file with an error was used with exclusive software (e.g. virus verify software, OS).  
- The batch file program cannot be synchronized.(*2) |
| 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x80004002</td>
<td>COM server CREATE-OBJECT method does not support the Automation Function.</td>
<td>COBOL accesses the COM server by using the Automation Function. Therefore, specify a COM server which supports the Automation Function.</td>
</tr>
<tr>
<td>0x8001ffff</td>
<td>An unexpected error occurred.</td>
<td>Execute the program again after you confirm if the COM server works correctly.</td>
</tr>
<tr>
<td>0x80020003</td>
<td>A method that the COM server does not define is going to be called, or the read only property is going to be set.</td>
<td>Correct the program so that the interface of the method to call.</td>
</tr>
<tr>
<td>0x80020005</td>
<td>The attribute of the argument of the method is incorrect.</td>
<td>Correct the program so that the method defined by the COM server is called.</td>
</tr>
<tr>
<td>0x80020006</td>
<td>The method COM server does not define is going to be called.</td>
<td>Correct the program so that it matches with the interface of the method to call.</td>
</tr>
<tr>
<td>0x80020009</td>
<td>COM server detected an error during the execution of a method.</td>
<td>Solve the problem by referring to the detailed information of the error set by COM server. When this code is notified by the system, &quot;0 (exception occurred)&quot; 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)</td>
</tr>
<tr>
<td>0x8002000a</td>
<td>The attribute of the argument of the method is incorrect.</td>
<td>Correct the program so that it matches with the interface of the method to call.</td>
</tr>
<tr>
<td>0x8002000b</td>
<td>The dimension or element of the array of *COM-ARRAY class object is incorrect.</td>
<td>Correct the program so that the element consistent with the actual array is specified.</td>
</tr>
<tr>
<td>0x8002000d</td>
<td>Object cannot be updated or deleted because the array of *COM-ARRAY class object is used by the COM server.</td>
<td>Correct the program so that object is updated or deleted after the COM server releases the array.</td>
</tr>
<tr>
<td>0x8002000e</td>
<td>The number of the argument of the method is incorrect.</td>
<td>Correct the program so that it matches with the interface of the method to call.</td>
</tr>
<tr>
<td>0x80030005</td>
<td>You cannot access to the file specified by GET-OBJECT method.</td>
<td>Confirm if the file exists in the path specified in the program.</td>
</tr>
<tr>
<td>0x8004000e</td>
<td>OLE2.DLL cannot be initialized because COMOBJ.DLL is old.</td>
<td>Confirm that the COM server is installed correctly.</td>
</tr>
<tr>
<td>0x80040151</td>
<td>The key could not be written to the registry.</td>
<td>Execution environment registry may be destroyed. Confirm the contents of the registry file.</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td>Response</td>
</tr>
<tr>
<td>-----------------</td>
<td>------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Ox80040154</td>
<td>The COM server specified by CREATE-OBJECT method is not registered to the registry.</td>
<td>Confirm that the COM server is installed correctly.</td>
</tr>
<tr>
<td>(-2147221164)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ox800401e0</td>
<td>You could not be connected via network to the file specified by GET-OBJECT method or the COM server associated with the file.</td>
<td>Confirm that the network is connected correctly.</td>
</tr>
<tr>
<td>(-2147221024)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ox800401e4</td>
<td>The file name specified by GET-OBJECT method is incorrect.</td>
<td>Correct the program so that the correct name is specified.</td>
</tr>
<tr>
<td>(-2147221020)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ox800401e5</td>
<td>The COM server associated with the file specified by GET-OBJECT method does not support Automation Function.</td>
<td>COBOL accesses to the COM server by using the Automation Function. Therefore specify a COM server which supports the Automation Function.</td>
</tr>
<tr>
<td>(-2147221019)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ox800401e7</td>
<td>The file specified by GET-OBJECT method or the COM server associated with the file cannot be found.</td>
<td>Confirm that the file specified to the execution environment and the COM server associated with the file exist.</td>
</tr>
<tr>
<td>(-2147221017)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ox800401f3</td>
<td>The PROGRAM-ID specified by CREATE-OBJECT is incorrect.</td>
<td>Correct the program so that the correct PROGRAM-ID is specified by CREATE-OBJECT method.</td>
</tr>
<tr>
<td>(-2147221005)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ox8004E002</td>
<td>Transaction aborted.</td>
<td>This is not an error. It is reported as an exception when the entire transaction is aborted while the Commit method is invoked.</td>
</tr>
<tr>
<td>(-2147164158)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ox8004E004</td>
<td>This object has no linked context.</td>
<td>This object may not be the one that was created using the CreateInstance method for context objects.</td>
</tr>
<tr>
<td>(-2147164156)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ox8004E005</td>
<td>The specified class is not registered as a transaction component.</td>
<td>Register the specified class to MTS.</td>
</tr>
<tr>
<td>(-2147164155)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ox8004E00C</td>
<td>The roll specified in arguments does not exist.</td>
<td>Specify a correct roll.</td>
</tr>
<tr>
<td>(-2147164148)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ox8007000E</td>
<td>This processing cannot be performed because there is no free space in the virtual storage area used for server application execution.</td>
<td>Determine the cause of error and respond accordingly, then retry. (*2)</td>
</tr>
<tr>
<td>(-2147024882)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ox80070057</td>
<td>The number of argument of the method or attribute is incorrect.</td>
<td>Correct the program so that it matches with the interface of the method to call.</td>
</tr>
<tr>
<td>(-2147024809)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ox80080005</td>
<td>Executing the server application failed.</td>
<td>Confirm that the COM server is installed and works correctly.</td>
</tr>
<tr>
<td>(-2146959355)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- *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

<table>
<thead>
<tr>
<th>Code (Hexadecimal Number)</th>
<th>Explanation</th>
<th>Programmer Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 High</td>
<td>Requested to make an entry after the end of a file or before the beginning of a file.</td>
<td>Check whether the number of input character items are correct.</td>
</tr>
<tr>
<td>21 High</td>
<td>An error was found in the order of a primary key.</td>
<td>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.</td>
</tr>
<tr>
<td>22 High</td>
<td>A new record key was duplicated in a file in which the duplicate keys are not allowed.</td>
<td>Correct the program so that the key is not duplicated.</td>
</tr>
<tr>
<td>23 High</td>
<td>The specified record does not exist.</td>
<td>Change the logic so that no attempt is made to operate on a record that does not exist.</td>
</tr>
<tr>
<td>24 High</td>
<td>Insufficient disk space.</td>
<td>Add more disk space and try again.</td>
</tr>
<tr>
<td>24 Low 01</td>
<td>The record number specified for writing a relative record file was invalid (zero).</td>
<td>Specify a value for the relative record number.</td>
</tr>
<tr>
<td>24 Low 02</td>
<td>Writing a record caused the maximum file size to be exceeded.</td>
<td>Split the file so that the file does not exceed the maximum file size.</td>
</tr>
<tr>
<td>30 Low 01 nn</td>
<td>The COBOL file system encountered an operating system error.</td>
<td>Correct the error returned from OS specified in nn mm.</td>
</tr>
<tr>
<td>30 Low 02 nn</td>
<td>The COBOL file system encountered an operating system error.</td>
<td>Correct the error returned from OS specified in nn mm.</td>
</tr>
<tr>
<td>31 Low 01</td>
<td>Memory acquisition failed.</td>
<td>Increase the available memory or virtual memory (swap).</td>
</tr>
<tr>
<td>30 Low 03 A</td>
<td>No single record exists.</td>
<td>Store at least one record.</td>
</tr>
<tr>
<td>30 Low 04 A</td>
<td>More files than accepted exist.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td>30 Low 05 A</td>
<td>Handle name error.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td>35 Low 01</td>
<td>A file with the specified file name does not exist.</td>
<td>Confirm if the specified file name or path name exists.</td>
</tr>
<tr>
<td>37 Low 01</td>
<td>Access was mismatched against the file property.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td>37 Low 07</td>
<td>Issued an open output or I-O instruction against a read-only file.</td>
<td>Confirm the file attribute.</td>
</tr>
<tr>
<td>38 Low 01</td>
<td>Cannot open a file closed with a lock.</td>
<td>Do not operate on a file after it is closed with a lock.</td>
</tr>
<tr>
<td>39 Low 01</td>
<td>Cannot open a file because of a mismatch of file properties.</td>
<td>The file property specified in a parameter or option must match with that of the physical file.</td>
</tr>
<tr>
<td>39 Low 01</td>
<td>Mismatched file organization.</td>
<td>The file organization specified in a parameter or option must match with that of the physical file.</td>
</tr>
<tr>
<td>Code (Hexadecimal Number)</td>
<td>Explanation</td>
<td>Programmer Response</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-------------</td>
<td>---------------------</td>
</tr>
<tr>
<td><strong>39 02</strong></td>
<td>Mismatched minimum record length.</td>
<td>The minimum record length specified in a parameter or option must match with that of the physical file.</td>
</tr>
<tr>
<td><strong>39 03</strong></td>
<td>Mismatched maximum record length.</td>
<td>The maximum record length specified in a parameter or option must match with that of the physical file.</td>
</tr>
<tr>
<td><strong>39 04</strong></td>
<td>Mismatched minimum block length.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>39 05</strong></td>
<td>Mismatched maximum block length.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>39 06</strong></td>
<td>Mismatched record delimiter.</td>
<td>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.</td>
</tr>
<tr>
<td><strong>39 07</strong></td>
<td>Mismatched code set.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>39 08</strong></td>
<td>Mismatched collation sequence.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>39 09</strong></td>
<td>Mismatched record format.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>39 0A</strong></td>
<td>Mismatched padding character.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>39 30-7F</strong></td>
<td>Mismatched properties (an offset, size, WITH DUPLICATES, etc.) for a key item in an indexed file.</td>
<td>The key property of an indexed file must match with that of the physical file.</td>
</tr>
<tr>
<td><strong>43</strong></td>
<td>An error occurred in the final reading.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>90 01</strong></td>
<td>Contradiction of access with open processing.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>90 04</strong></td>
<td>Contradiction of access with the file organization.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>90 05</strong></td>
<td>Contradiction of the file truncate instruction with another user.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>90 06</strong></td>
<td>A server session is rejected.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>90 07</strong></td>
<td>Invalid access against a read-only file.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>90 08</strong></td>
<td>Unsupported access.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>90 09</strong></td>
<td>Insufficient message area.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>90 10</strong></td>
<td>Invalid session ID.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>92</strong></td>
<td>Unclosed file.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>92 01</strong></td>
<td>Open issue against a file already opened.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>93</strong></td>
<td>Invalid file.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td><strong>93 02</strong></td>
<td>A file is locked with another file's connector.</td>
<td>Delete the record locking state from the other file's connector.</td>
</tr>
<tr>
<td><strong>93 06</strong></td>
<td>Cannot open because a file already exists.</td>
<td>Use a folder without a file or use a different file name.</td>
</tr>
<tr>
<td>Code (Hexadecimal Number)</td>
<td>Explanation</td>
<td>Programmer Response</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>High 94 Low 21</td>
<td>The file organizations do not match.</td>
<td>Make sure that the file organization specified in parameters and options matches the file organization of the physical file.</td>
</tr>
<tr>
<td>High 94 Low 22</td>
<td>The minimum record lengths do not match.</td>
<td>Make sure that the minimum record length specified in parameters and options matches the minimum record length of the physical file.</td>
</tr>
<tr>
<td>High 94 Low 23</td>
<td>The maximum record lengths do not match.</td>
<td>Make sure that the maximum record length specified in parameters and options matches the maximum record length of the physical file.</td>
</tr>
<tr>
<td>High 94 Low 24</td>
<td>The minimum block lengths do not match.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td>High 94 Low 25</td>
<td>The maximum block lengths do not match.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td>High 94 Low 26</td>
<td>The record delimiters do not match.</td>
<td>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.</td>
</tr>
<tr>
<td>High 94 Low 27</td>
<td>The code sets do not match.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td>High 94 Low 28</td>
<td>The collation sequences do not match.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td>High 94 Low 29</td>
<td>The record formats do not match.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td>High 94 Low 2A</td>
<td>The embedded characters do not match.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td>High 94 30-5F</td>
<td>Attributes of indexed file key items (such as offset, size, and WITH DUPLICATES setting) do not match.</td>
<td>Make sure that the attributes of indexed file keys match the attributes of the physical file.</td>
</tr>
<tr>
<td>High 94 60</td>
<td>Insufficient disk space to create the file.</td>
<td>Increase the available memory or virtual memory (swap).</td>
</tr>
<tr>
<td>High 94 61</td>
<td>Insufficient disk space to create the file.</td>
<td>Increase the available disk space and try again.</td>
</tr>
<tr>
<td>High 94 64</td>
<td>There is an error in the specified file name.</td>
<td>Make sure that the file name does not include any invalid characters.</td>
</tr>
<tr>
<td>96</td>
<td>Undefined file position.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td>High 97 Low 01</td>
<td>An inappropriate character exists in the record of the line sequential file.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td>High 97 Low 02</td>
<td>Inappropriate character.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td>Code (Hexadecimal Number)</td>
<td>Explanation</td>
<td>Programmer Response</td>
</tr>
<tr>
<td>---------------------------</td>
<td>----------------------------------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>High Low</td>
<td></td>
<td></td>
</tr>
<tr>
<td>97 03</td>
<td>A record area shorter than the minimum record length is specified.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td>97 04</td>
<td>A record area longer than the maximum record length is specified.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td>97 07</td>
<td>Mismatched record length.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td>98</td>
<td>Invalid file structure.</td>
<td>Contact NetCOBOL Support. (*)</td>
</tr>
<tr>
<td>99</td>
<td>A file is locked with another file's connector.</td>
<td>Delete the record locking state from the other file's connector.</td>
</tr>
</tbody>
</table>

*: Open a support incident to obtain assistance from a NetCOBOL Support Engineer.
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".