



C120-E275-01ENZ2

# Tape driver configuration tool 1.0

## User's Guide



**FUJITSU**





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# Preface

## Purpose

This manual explains the supported auto-configuration of tape driver configuration file(st.conf) in Solaris (TM) Operating Environment.

## Intended Readers

This manual targets the system administrator who introduces the system and operates it.

## Configuration

The configuration of this manual and the content are as follows.

- "Chapter 1 Product Overview" explains the function of the Tape driver configuration tool.
- "Chapter 2 Command reference" explains the use of the command.
- "Chapter 3 Message" explains the meaning of messages and corrective action.
- "Chapter 4 Appendix" explains concretely configuration of each tape devices.

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# Chapter1 Product Overview.

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## 1.1 Overview

Tape driver configraiotn tool sets target tape device configuration to `/kernel/drv/st.conf` automatically.

Tape driver configuration tool supports following fuction.

- `fjcnfset(1M)` – adding target tape device configuration automatically.
- `fjcnfchk(1M)` – checking target tape device configuration.

for more detail, see Chapter 2

`fjcnfset(1M)` and `fjcnfchk(1M)` are automatically invoked in package installation.

If no configuraion of target tape device is detected, target tape deivce configuration is added automaticay. Otherwise, tape driver configuration file (= `/kernel/drv/st.conf`) is checked.

New configuration is reflected by reboot .



## 1.2 Operational Environment

The tape driver configuraion tool can be executed in the follwing environments.

1. Hardware
  - PRIMEPOWER, GP7000F
2. Software
  - Solaris2.6 Operating Environment
  - Solaris 7 Operating Environment
  - Solaris 8 Operating Environment
  - Solaris 9 Operating Environment
  - Solaris 10 Operating Environment

## 1.3 target tape devices.

Tape driver configuration tool supports following tape deivces.

No.	device name	model
1	DDS-4 drives	PW023DT3, PW023DT4, PW0R3DT1, PW0G3DT1
2	DAT-72 drives	Pw023DT5, PW023DT6, PW0R3DT2, PW0G3DT2

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## **Chapter2    Command reference.**

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## 2.1 fcnfset(1M)

[NAME]

fcnfset – set driver configuration parameter.

[SYNOPSIS]

/opt/FJSVdcnf/bin/fcnfset st

[DESCRIPTION]

At first fcnfset(1M) detects target tape devices. If no configuration of target tape device is detected in /kernel/drv/st.conf, target tape device configuration is added automatically. Otherwise, tape driver configuration is checked.

New configuration is reflected by reboot .

[OPERANDS]

set driver's name : st

[EXIT STATUS]

The following exit values are returned.

0 Successful completion.

>0 An error occurred.

For more information, see output-messages(Chapter 3).

[FILES]

/kernel/drv/st.conf

[SEE ALSO]

fcnfchk(1M)

st(7D)

driver.conf(4)

## 2.1 fjcncchk(1M)

[NAME]

fjcncchk – check driver configuration parameter.

[SYNOPSIS]

/opt/FJSVdcnf/bin/fjcncchk st

[DESCRIPTION]

fjcncchk(1M) checks driver configuration file (=kernel/drv/st.conf).

fjcncchk(1M) detects target tape device configuration in /kernel/drv/st.conf, and compares the contents of current value and fujitsu recommend value.

The result message will be produced if the configuration value is no identical.

No output will be produced if the configuration value is identical.

[OPERANDS]

set driver's name : st

[EXIT STATUS]

The following exit values are returned.

0 Successful completion.

>0 An error occurred.

For more information, see output-messages(Chapter 3).

[FILES]

/kernel/drv/st.conf

[SEE ALSO]

fjcncset(1M)

st(7D)

driver.conf(4)



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# Chapter3 Messages

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Tape driver configuration tool output the following messages.  
For more /kernel/drv/st.conf parameters, see st(7D) man pages.

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[MESSAGES]

FJSVdcnf: st: notice: \*\*\*\*\* /kernel/drv/st.conf auto edit \*\*\*\*\*  
FJSVdcnf: st: target device = <device name>  
FJSVdcnf: st: config value = <config value>

[MEANING]

Tape driver configuration tool detects the output target tape device, and adds configuration to /kernel/drv/st.conf.

[ACTION]

Nothing.

---

[MESSAGES]

FJSVdcnf: st: warning: \*\*\*\*\* current setting not recommend \*\*\*\*\*  
FJSVdcnf: st: target device = <device name>  
FJSVdcnf: st: current value = <value 1>  
FJSVdcnf: st: recommend value = <value 2>

[MEANING]

Detected difference between current value and recommend value.

[ACTION]

No operation, If current value is true. Otherwise modify value of data-property.

---

[MESSAGES]

FJSVdcnf: st: error: \*\*\*\*\* /kernel/drv/st.conf tape-config-list \*\*\*\*\*  
FJSVdcnf: st: miss configuration -> tape-config-list="...

[MEANING]

Detected tape-config-list parameter errors.

[ACTION]

Modify the value of tape-config-list parameter.

---

[MESSAGES]

FJSVdcnf: st: error: \*\*\*\*\* /kernel/drv/st.conf data-property \*\*\*\*\*  
FJSVdcnf: st: miss configuration -> <data-property-name>=<value 1>, ..<value n>  
FJSVdcnf: st: <property-name> -> <data-property-name>

[MEANING]

Detected <data-property> parameter errors.

[ACTION]

Modify the value of *data-property*.

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## Chapter4 Appendix.

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## 4.1 Configuration parameters.

explains concretely configuration of each target tape devices.

The formal syntax of st.conf is :

```
tape-config-list="<AAAA>", "<BBBB>", "<CCCC>";
```

```
<CCCC>= param1, param2, ....., paramN;
```

<AAAA> is the string that is returned by the tape device on a SCSI inquiry command.

<BBBB> is used to report the device on the console.

<CCCC> is name of parameters which contains all the tape configuration values.

For more detail, see st(7D) man-pages.

### 4.1.1 DDS-4 tape drives. (PW023DT3, PW023DT4, PW0R3DT1, PW0G3DT1)

```
tape-config-list=
```

```
"SEAGATE DAT 9SP40-000", "SEAGATE_DAT____9SP40-000", "SEAGATE_DAT____9SP40-000";
```

```
SEAGATE_DAT____9SP40-000=1, 0x34, 0, 0x9639, 4, 0x00, 0x8c, 0x8c, 0x8c, 3;
```

### 4.1.2 DAT-72 tape drives. (PW023DT5, PW023DT6, PW0R3DT2, PW0G3DT2)

```
tape-config-list=
```

```
"SEAGATE DAT DAT72-000", "SEAGATE_DAT____DAT72-000", "SEAGATE_DAT____DAT72-000";
```

```
SEAGATE_DAT____DAT72-000=1, 0x34, 0, 0x9639, 4, 0x00, 0x8c, 0x8c, 0x8c, 3;
```