

HDD configurator tool (FJSVhdcfg)

FJSVhdcfg package adds the HDD settings of the Solaris MPxIO.

1. Program components

component	package	VL	Function
HDD configurator tool	FJSVhdcfg	1.0	FJSVhdcfg package adds the HDD settings of the Solaris MPxIO. After install the package, the access pathname to the HDD is changed to scsi_vhci pathname.

2. Operating Environment

Hardware environment	SPARC M10 series
Disk space requirement	10KB

3. Installation

In Solaris 11, this package is installed “esfadd” command.

In Solaris 10, this package is need to install manually.

4. Functions

FJSVhdcfg package adds the HDD settings of the Solaris MPxIO.

Disks

TOSHIBA AL13SEB300

TOSHIBA AL13SEB600

TOSHIBA AL13SEB900

TOSHIBA MBF2300RC

TOSHIBA MBF2600RC

TOSHIBA MK1001GRZB

TOSHIBA MK2001GRZB

Setting file

Oracle Solaris 10

/kernel/drv/scsi_vhci.conf

Oracle Solaris 11

/etc/driver/drv/scsi_vhci.conf

5. Installation

5.1 Solaris 11 environment

In Solaris 11, this package is installed “esfadd” command. After this package install, the validation of Solaris MPxIO and the update the device pathname might be necessary. This is because device pathname to the disk is changed to pathname of scsi_vhci. Both of Logical device pathname and physical device pathname are changed.

1) Validation of Solaris MPxIO

```
# /usr/sbin/stmsboot -e<RETURN>
```

The System is rebooted by the command execution, and the MPxIO setting to the disk becomes effective.

When Solaris MPxIO has already been made effective, the following messages are output. In this case, please reboot to recognize the additional settings.

```
.....  
STMS is already enabled. No changes or reboots needed
```

Note) The validation of Solaris MPxIO to the driver is done beforehand according to the Oracle Solaris release. For example, Solaris MPxIO is made effective for the mpt_sas driver in Oracle Solaris 11.

2) Update the file of uses device pathname.

After reboot, the setting of device pathname is updated if it is necessary.

	Operations
Using ZFS volumes	There is no necessary operation.
Using UFS volumes	Solaris MPxIO validation and update settings are automatically done by the stmsboot (1M) command. Please update following information if stmsboot (1M) command is failed. Mount information (/etc/vfstab) dump device information (dumpadm command)
Using raw device	If your application programs use the raw device pathname, update of device pathname is needed.

5.2 Solaris 10 environment

After installation of Solaris 10, it is necessary to do the installation of the FJSVhdcfg package that configure the settings about internal SAS HDD and 6G SAS File Unit. Please do the installation of the FJSVhdcfg package according to the following procedure.

Environment

Server	SPARC M10 System
Operating System	Solaris 10
Enhanced Support Facility	ESF 5.0.1 or later
Domain for which installation is necessary.	Domain uses internal SAS HDD or 6GSAS File Unit. *) Control domain or I/O domain corresponds. Guest domain does not correspond.

5.2.1 Installation procedure

- 1) The domain is started in the multiuser mode.
- 2) Install FJSVhdcfg package from SPARC Enterprise Software DVD.

```
# /usr/sbin/pkgadd -d /cdrom/cdom0/ESF/ESF501/.pkg/Common FJSVhdcfg
```

- 3) Executing of stmsboot command

```
# /usr/sbin/stmsboot -e
WARNING: stmsboot operates on each supported multipath-capable controller
         detected in a host. In your system, these controllers are

/pci@0,600000/pci@0/scsi@1
/pci@24,600000/pci@0/scsi@1
/pci@36,600000/LSI,sas@0/iport@f

If you do NOT wish to operate on these controllers, please quit stmsboot
and re-invoke with -D { fp | mpt } to specify which controllers you wish
to modify your multipathing configuration for.

Do you wish to continue? [y/n] (default: y) y
Checking mpxio status for driver fp
Checking mpxio status for driver mpt
```

```
WARNING: This operation will require a reboot.
Do you want to continue ? [y/n] (default: y) y
The changes will come into effect after rebooting the system.
Reboot the system now ? [y/n] (default: y) y

stmsboot: configuring devices
stmsboot: vfstab has been updated
stmsboot: now regenerating boot archive
syncing file systems... done
rebooting...
Resetting...
```

4) Update the file of uses device pathname.

The device path name of the internal HDD and SAS HDD of File Unit are renewed at reboot after the installation of package. The setting change might be necessary in the addition according to the environment. Please change the setting concerned about the device pathname if necessary.

	Operation
ZFS	There is no necessary operation.
UFS	There is no necessary operation. Necessary information like the Solaris MPxIO validation and mount information, etc. is automatically renewed at stmsboot(1M) execution time.
Raw device	Setting change is needed to each application when there is an application used specifying device path name directly.