NAME

ssaadm – Administration program for the SPARCstorage Array

SYNOPSIS

ssaadm [**–v**] *subcommand* [*option* . . .] *pathname* . . .

AVAILABILITY

SUNWssaop

DESCRIPTION

The **ssaadm** program is an administrative command that manages the SPARCstorage Array. **ssaadm** performs a variety of control and query tasks depending on the command line arguments and options used.

The command line must contain a subcommand and at least one pathname. It may also contain options and other parameters depending on the subcommand. The subcommand is applied to each of the pathnames on the command line.

pathname specifies the SPARCstorage Array controller or a disk in the SPARCstorage Array. The controller name is specified by its physical name, e.g.,

/devices/.../.../SUNW,soc@3,0/SUNW,pln@axxxxxxx,xxxxxxxx:ctlr,

or by a name of the form

c*N*,

where *N* is the logical controller number. **ssaadm** uses the **c***N* name to find an entry in the **/dev/rdsk** directory of a disk that is attached to the SPARCstorage Array controller. The **/dev/rdsk** entry is then used to determine the physical name of the SPARCstorage Array controller. A disk in the SPARCstorage Array is specified by its logical or physical device name, e.g.,

/dev/rdsk/c1t0d0s2

or

/devices/.../.../SUNW,soc@3,0/SUNW,pln@axxxxxxx,xxxxxxxx/ssd@0,0:c,raw.

See **disks**(1M) for more information on logical names for disks and controllers.

OPTIONS

–v verbose mode.

Other options specific to each subcommand are described below.

USAGE

Subcommands

display [**–p**] *pathname* . . .

Display configuration information for the specified unit(s) or display performance information for the specified SPARCstorage Array controller. If *pathname* specifies the controller, the configuration information is displayed for all disks in the SPARCstorage Array.

–p Display performance information for the specified SPARCstorage Array controller. The accumulation of the performance statistics must be enabled using the **perf_statistics** subcommand before displaying the performance information. If it is not, all of the I/O's per second will be displayed as zeros.

The performance display reports the following information:

BUSY how busy the controller in the SPARCstorage Array is, expressed as a percentage.

IOPS the total I/O's per second for the SPARCstorage Array.

entries for each disk
the total number of I/O's per second.

download –**f** *filename pathname*
Download the prom image specified by *filename* to the SPARCstorage Array controller FEPROMs. When the download is complete the SPARCstorage Array must be reset in order to use the downloaded code. **NOTE:** The download modifies the FEPROM on the SPARCstorage Array and should be used with **CAUTION**.

fast_write [–**s**] –**c** *pathname*
fast_write [–**s**] –**d** *pathname*
fast_write [–**s**] –**e** *pathname*
Enable or disable the use of the NVRAM to enhance the performance of writes in the SPARCstorage Array. *pathname* may refer to the SPARCstorage Array controller or to an individual disk.

–**s** This option causes the SPARCstorage Array to save the change so it will persist across power-cycles.

–**c** Enable fast writes for synchronous writes only.

–**e** Enable fast writes.

–**d** Disable fast writes.

perf_statistics –**e** *pathname*
perf_statistics –**d** *pathname*
Enable or disable the accumulation of performance statistics for the specified SPARCstorage Array controller. The accumulation of performance statistics must be enabled before using the **display** –**p** subcommand. This subcommand can be issued only to the SPARCstorage Array controller.

–**e** Enable the accumulation of performance statistics.

–**d** Disable the accumulation of performance statistics.

purge *pathname*
Purge any fast write data from NVRAM for one disk, or all disks if the controller is specified. This option should be used with caution, usually only when a drive has failed.

reserve *pathname*
Reserve the specified controller(s) or disk(s) for exclusive use by the issuing host.

release *pathname*
Release a reservation held on the specified controller(s) or disk(s).

start [–**t** *tray-number*] *pathname*
Spin up the specified disk(s). If *pathname* specifies the controller, this action applies to all disks in the SPARCstorage Array.

–**t** Spin up all disks in the tray specified by *tray-number*. *pathname* must be of the controller.

stop [–**t** *tray-number*] *pathname*
Spin down the specified disk(s). If *pathname* specifies the controller, this action applies to all disks in the SPARCstorage Array.

–**t** Spin down all disks in the tray specified by *tray-number*. *pathname* must be of the controller.

sync_cache *pathname*
Flush all outstanding writes for the specified disk(s) from NVRAM to the media. If *pathname* specifies the controller, this action applies to all disks in the SPARCstorage Array.

EXIT STATUS

The following exit values are returned:

0 Successful completion.

-1 An error occurred.

SEE ALSO

disks(1M)

NOTES

For more information, see the *SPARCstorage Array Users Guide*.