

# A Raid manager 6.22.1 issue with Solaris 2.6 on E3000

**Source:** <http://unix.derkeiler.com/Mailing-Lists/SunManagers/2004-03/0165.html>

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**Date:** 03/05/04

To: "'List, Sun Managers'" <[sunmanagers@sunmanagers.org](mailto:sunmanagers@sunmanagers.org)>

Date: Fri, 5 Mar 2004 16:17:17 -0500

OK, I am trying to add some more storage to an old E3000. I have an A1000 and so I figured...why not.

I updated the firmware to the latest. Rebooted OK.

I updated to the required patches. Rebooted OK.

I added the X1065A SCSI card.

At the OK prompt...probe SCSI all, detected the A1000.

Installed RAID Manager 6.22.1...Rebooted and below is now the boot output...

Some more specifics:

- 1) Node also has 2 older Sun SSA FC arrays being managed by VxVM 2.5
- 2) When I inherited the machine root's shell was /bin/ksh which is not available...DOH!!! Can't do a boot -b
- 3) Need to double check but I think that I no longer have an encapsulated root disk...as it failed sometime ago and was just replaced.
- 4) The install process for RM6.22.1 is at the bottom of this email...

Two questions:

- 1) Please confirm...but I think I need to restore...
- 2) When I try again...what do I do to make sure RAID Manager doesn't screw me up again?

**\*\*THE BOOT\*\***

Rebooting with command: boot

Boot device: /sbus@3,0/SUNW,fas@3,8800000/sd@0,0 File and args:

SunOS Release 5.6 Version Generic\_105181-38 [UNIX(R) System V Release 4.0]

Copyright (c) 1983-2003, Sun Microsystems, Inc.

soc0: port 1: Fibre Channel is ONLINE

soc0: port 0: Fibre Channel is ONLINE

WARNING: forceload of drv/sf failed

WARNING: forceload of drv/socal failed

VxVM starting in boot mode...

configuring network interfaces: hme0 hme1.

Hostname: dilbert

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```
mount: /dev/vx/dsk/usr is already mounted, /usr is busy,  
    or the allowable number of mount points has been exceeded  
/etc/rcS.d/S35vxvm-startup1: /usr/lib/vxvm/voladm.d/lib/vxadm_lib.sh:  
not found  
/sbin/swapadd: expr: not found  
/sbin/swapadd: /usr/sbin/swap: not found
```

WARNING – /usr/sbin/fsck not found. Most likely the mount of /usr failed or the /usr filesystem is badly damaged. The system is being halted. Either reinstall the system or boot with the –b option in an attempt to recover.

syncing file systems... done

\*\*THE INSTALL\*\*

```
ooshlpsd # ls  
103346-30 107665-01 SUNWosar  
105181-38 112125-09[1].tar.Z SUNWosau  
105580-19 112542-01 pkg.tar  
106125-16 SUNWosafw rm6221-fcs-sparc-bin.zip  
106226-03 SUNWosamn  
106655-05 SUNWosanv  
ooshlpsd # pkgadd -d .
```

The following packages are available:

- 1 SUNWosafw Open Storage Array Firmware  
(sparc) 06.22,REV=01.54
- 2 SUNWosamn Open Storage Array Man Pages  
(sparc) 06.22,REV=01.54
- 3 SUNWosanv Open Storage Array (nvsram)  
(sparc) 06.22,REV=01.54
- 4 SUNWosar Open Storage Array (Root)  
(sparc) 06.22,REV=01.54
- 5 SUNWosau Open Storage Array (Usr)  
(sparc) 06.22,REV=01.54

Select package(s) you wish to process (or 'all' to process all packages). (default: all) [?,??,q]:

Processing package instance <SUNWosafw> from </opt/SUPPORT>

Open Storage Array Firmware  
(sparc) 06.22,REV=01.54  
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Using </usr> as the package base directory.

## Processing package information.

## Processing system information.

1 package pathname is already properly installed.

## Verifying disk space requirements.

## Checking for conflicts with packages already installed.

## Checking for setuid/setgid programs.

Installing Open Storage Array Firmware as <SUNWosafw>

## Installing part 1 of 1.

/usr/lib/osa/fw/02040100.fcd

/usr/lib/osa/fw/02040400.bwd

/usr/lib/osa/fw/02040401.apd

/usr/lib/osa/fw/02050632.apd

/usr/lib/osa/fw/02050632.bwd

/usr/lib/osa/fw/02050633.fcd

/usr/lib/osa/fw/03010233.bwd

/usr/lib/osa/fw/03010235.apd

/usr/lib/osa/fw/03010400.bwd

/usr/lib/osa/fw/03010468.apd

/usr/lib/osa/fw/fwcompat.def

[ verifying class <none> ]

Installation of <SUNWosafw> was successful.

Processing package instance <SUNWosamn> from </opt/SUPPORT>

Open Storage Array Man Pages

(sparc) 06.22,REV=01.54

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Using </usr> as the package base directory.

## Processing package information.

## Processing system information.

4 package pathnames are already properly installed.

## Verifying package dependencies.

## Verifying disk space requirements.

## Checking for conflicts with packages already installed.

The following files are already installed on the system and are being used by another package:

/usr/share/man/man4 <attribute change only>

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Do you want to install these conflicting files [y,n,?,q] y

## Checking for setuid/setgid programs.

Installing Open Storage Array Man Pages as <SUNWosamn>

## Installing part 1 of 1.

/usr/share/man/man1m/arraymon.1m  
/usr/share/man/man1m/drivutil.1m  
/usr/share/man/man1m/fwutil.1m  
/usr/share/man/man1m/genscsiconf.1m  
/usr/share/man/man1m/healthck.1m  
/usr/share/man/man1m/hot\_add.1m  
/usr/share/man/man1m/lad.1m  
/usr/share/man/man1m/logutil.1m  
/usr/share/man/man1m/nvutil.1m  
/usr/share/man/man1m/parityck.1m  
/usr/share/man/man1m/perfutil.1m  
/usr/share/man/man1m/raidcode.1m  
/usr/share/man/man1m/raidutil.1m  
/usr/share/man/man1m/rdac\_disks.1m  
/usr/share/man/man1m/rdacutil.1m  
/usr/share/man/man1m/rdaemon.1m  
/usr/share/man/man1m/rm6.1m  
/usr/share/man/man1m/rmscript.1m  
/usr/share/man/man1m/storutil.1m  
/usr/share/man/man1m/symconf.1m  
/usr/share/man/man4/rdac\_address.4  
/usr/share/man/man4/rdriver.4  
/usr/share/man/man4/rmevent.4  
/usr/share/man/man4/rmparams.4  
/usr/share/man/man7/rdac.7  
[ verifying class <none> ]

Installation of <SUNWosamn> was successful.

Processing package instance <SUNWosanv> from </opt/SUPPORT>

Open Storage Array (nvsram)

(sparc) 06.22,REV=01.54

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Using </usr> as the package base directory.

## Processing package information.

## Processing system information.

3 package pathnames are already properly installed.

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```
## Verifying disk space requirements.  
## Checking for conflicts with packages already installed.  
## Checking for setuid/setgid programs.
```

Installing Open Storage Array (nvsram) as <SUNWosanv>

```
## Installing part 1 of 1.  
/usr/lib/osa/fw/44072dn.dl  
/usr/lib/osa/fw/44073dn.dl  
/usr/lib/osa/fw/sie3240c.dl  
/usr/lib/osa/fw/sie3621g.dl  
/usr/lib/osa/fw/sie3621h.dl  
[ verifying class <none> ]
```

Installation of <SUNWosanv> was successful.

Processing package instance <SUNWosar> from </opt/SUPPORT>

Open Storage Array (Root)  
(sparc) 06.22,REV=01.54  
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```
Using </> as the package base directory.  
## Processing package information.  
## Processing system information.  
11 package pathnames are already properly installed.  
## Verifying package dependencies.  
## Verifying disk space requirements.  
## Checking for conflicts with packages already installed.  
## Checking for setuid/setgid programs.
```

This package contains scripts which will be executed with super-user permission during the process of installing this package.

Do you want to continue with the installation of <SUNWosar> [y,n,?] y

Installing Open Storage Array (Root) as <SUNWosar>

```
## Executing preinstall script.  
A copy of /kernel/drv/sd.conf has been saved in the directory /var/osa  
## Installing part 1 of 1.  
/etc/init.d/amdemon  
/etc/init.d/rdacctrl  
/etc/osa/rmparams  
/etc/raid <symbolic link>
```

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```
/etc/rc0.d/K80amon <symbolic link>
/etc/rc0.d/K90rdac <symbolic link>
/etc/rc1.d/S90amon <symbolic link>
/etc/rc2.d/S90amon <symbolic link>
/etc/rcS.d/S55rdac <symbolic link>
/etc/rcS.d/S61rdaclinks
/etc/rcS.d/S71rdaclogmsgs
/etc/rcS.d/S86vxvm-rdac
/kernel/drv/rdnexus.conf
/kernel/drv/rdnexus7
/kernel/drv/rdnexus8
/kernel/drv/rdriver.conf
/kernel/drv/rdriver7
/kernel/drv/rdriver8
/kernel/drv/sparcv9/rdnexus7
/kernel/drv/sparcv9/rdnexus8
/kernel/drv/sparcv9/rdriver7
/kernel/drv/sparcv9/rdriver8
/sbin/rdaemon7
/sbin/rdaemon8
/sbin/sparcv9/rdaemon7
/sbin/sparcv9/rdaemon8
[ verifying class <none> ]
[ verifying class <sdconf> ]
[ verifying class <syslogconf> ]
[ verifying class <minorperm> ]
[ verifying class <system> ]
## Executing postinstall script.
Calling add_drv to install rdnexus driver.
Calling add_drv to install rdriver driver.
```

Installation of <SUNWosar> was successful.

Processing package instance <SUNWosau> from </opt/SUPPORT>

Open Storage Array (Usr)  
(sparc) 06.22,REV=01.54  
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Using </usr> as the package base directory.  
## Processing package information.  
## Processing system information.  
4 package pathnames are already properly installed.  
## Verifying package dependencies.  
## Verifying disk space requirements.

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```
## Checking for conflicts with packages already installed.  
## Checking for setuid/setgid programs.
```

This package contains scripts which will be executed with super-user permission during the process of installing this package.

Do you want to continue with the installation of <SUNWosau> [y,n,?] y

Installing Open Storage Array (Usr) as <SUNWosau>

```
## Executing preinstall script.  
## Installing part 1 of 1.  
/usr/lib/osa/000tx.abt  
/usr/lib/osa/README  
/usr/lib/osa/SUNWarray.po  
/usr/lib/osa/bin/Signalrdm  
/usr/lib/osa/bin/add_disk  
/usr/lib/osa/bin/arraymon  
/usr/lib/osa/bin/cfgap  
/usr/lib/osa/bin/clean  
/usr/lib/osa/bin/dacdiscovery  
/usr/lib/osa/bin/drivutil  
/usr/lib/osa/bin/fwutil  
/usr/lib/osa/bin/genscsiconf  
/usr/lib/osa/bin/healthck  
/usr/lib/osa/bin/hide_sd  
/usr/lib/osa/bin/hot_add  
/usr/lib/osa/bin/lad  
/usr/lib/osa/bin/logutil  
/usr/lib/osa/bin/maintap  
/usr/lib/osa/bin/nvutil  
/usr/lib/osa/bin/parityck  
/usr/lib/osa/bin/perfutil  
/usr/lib/osa/bin/putplog  
/usr/lib/osa/bin/raidutil  
/usr/lib/osa/bin/raidutil.exec  
/usr/lib/osa/bin/rdac_disks  
/usr/lib/osa/bin/rdac_name_change  
/usr/lib/osa/bin/rdac_name_delete  
/usr/lib/osa/bin/rdacconfig  
/usr/lib/osa/bin/rdacutil  
/usr/lib/osa/bin/rdaemon <symbolic link>  
/usr/lib/osa/bin/recvap  
/usr/lib/osa/bin/rm6  
/usr/lib/osa/bin/rm6.exec  
/usr/lib/osa/bin/rm_mutex_acquire  
/usr/lib/osa/bin/rmscript  
/usr/lib/osa/bin/set_drivers  
/usr/lib/osa/bin/sparcv9/rdaemon <symbolic link>  
/usr/lib/osa/bin/statap  
/usr/lib/osa/bin/storutil
```

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```
/usr/lib/osa/bin/symconf
/usr/lib/osa/bin/trapctl
/usr/lib/osa/format.cmds
/usr/lib/osa/fw/default.def
/usr/lib/osa/help/33202.gif
/usr/lib/osa/help/complogo.bmp
/usr/lib/osa/help/glossary.txt
/usr/lib/osa/help/messages.txt
/usr/lib/osa/help/styles.doc
/usr/lib/osa/help/symhelp.txt
/usr/lib/osa/index.trp
/usr/lib/osa/libndcore.so
/usr/lib/osa/libndcorex.so
/usr/lib/osa/libndgw.so
/usr/lib/osa/libndoaba.so
/usr/lib/osa/libndres.so
/usr/lib/osa/libndscrbt.so
/usr/lib/osa/libndscrbt.so
/usr/lib/osa/libndsec.so
/usr/lib/osa/libndtkit.so
/usr/lib/osa/libndvgm.so
/usr/lib/osa/locks <symbolic link>
/usr/lib/osa/raidcode.txt
/usr/lib/osa/res/maint.dat
/usr/lib/osa/res/nd.dat
/usr/lib/osa/res/ndcore.dat
/usr/lib/osa/res/ndgw.dat
/usr/lib/osa/res/ndres.dat
/usr/lib/osa/res/ndscrbt.dat
/usr/lib/osa/res/ndscrbt.dat
/usr/lib/osa/res/ndsec.dat
/usr/lib/osa/res/ndtkit.dat
/usr/lib/osa/res/ndvgm.dat
/usr/lib/osa/res/rm6.dat
/usr/lib/osa/res/rm6cfg.dat
/usr/lib/osa/res/rm6dat.dat
/usr/lib/osa/res/rm6rec.dat
/usr/lib/osa/res/rm6stdat.dat
/usr/lib/osa/rm6traps.mib
/usr/lib/osa/rmlog.log <symbolic link>
/usr/lib/osa/rmparams <symbolic link>
/usr/lib/osa/rmparams.install
/usr/sbin/osa/drivutil <symbolic link>
/usr/sbin/osa/fwutil <symbolic link>
/usr/sbin/osa/healthck <symbolic link>
/usr/sbin/osa/lad <symbolic link>
/usr/sbin/osa/logutil <symbolic link>
/usr/sbin/osa/nvutil <symbolic link>
/usr/sbin/osa/parityck <symbolic link>
/usr/sbin/osa/raidutil <symbolic link>
/usr/sbin/osa/rdacutil <symbolic link>
```

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```
/usr/sbin/osa/rm6 <symbolic link>  
/usr/sbin/osa/storutil <symbolic link>  
[ verifying class <none> ]  
## Executing postinstall script.  
  Executing the 'genscsiconf' tool...  
  Executing the 'hot_add' tool...  
RDAC daemons initiated
```

Installation of <SUNWosau> was successful.

The following packages are available:

- 1 SUNWosafw Open Storage Array Firmware  
(sparc) 06.22,REV=01.54
- 2 SUNWosamn Open Storage Array Man Pages  
(sparc) 06.22,REV=01.54
- 3 SUNWosanv Open Storage Array (nvsram)  
(sparc) 06.22,REV=01.54
- 4 SUNWosar Open Storage Array (Root)  
(sparc) 06.22,REV=01.54
- 5 SUNWosau Open Storage Array (Usr)  
(sparc) 06.22,REV=01.54

Select package(s) you wish to process (or 'all' to process  
all packages). (default: all) [?,??,q]: q

\*\*\* IMPORTANT NOTICE \*\*\*

This machine must now be rebooted in order to ensure  
sane operation. Execute

```
shutdown -y -i6 -g0
```

and wait for the "Console Login:" prompt.

```
ooshlpsd # df -k | grep usr
```

```
/dev/vx/dsk/usr 529687 393823 82896 83% /usr
```

---

sunmanagers mailing list

sunmanagers@sunmanagers.org

<http://www.sunmanagers.org/mailman/listinfo/sunmanagers>