

Summary: A Raid manager 6.22.1 issue with Solaris 2.6 on E3000

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Date: 03/08/04

To: "'List, Sun Managers'" <sunmanagers@sunmanagers.org>

Date: Mon, 8 Mar 2004 11:39:44 -0500

As it turned out RM6.22.1 doesn't like Solaris 2.6 when /usr and / are on separate slices. There are several work arounds available, and since I was in a recovery situation, I combined the / and /usr slices. I am now back up and running to before the pre-requisite patches. If something goes wrong then I will send another email.

Thanks to David Eisner for his useful RTFM suggestion. It was actually in the RM6.22 to RM6.22.1 upgrade guide but since I was installing from scratch...I decided not to read that. I think I will give it a complete read now before I install it again.

One other thing I noticed is that there is an issue with the VERITAS sg driver and RM. I will be installing 4.5FP6 BS on this machine so if there are any problems I will call VERITAS Support....

Regards,
Marco

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...

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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

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)

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(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
Copyright 2000 Sun Microsystems, Inc. All rights reserved.

Copyright (C) 1995, 1996, 1997, 1998, 1999, 2000
LSI Logic Corporation
3718 North Rock Road
Wichita, KS 67226-1397
All Rights Reserved

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>

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>]

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Installation of <SUNWosamn> was successful.

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

Open Storage Array (nvsram)
(sparc) 06.22,REV=01.54
Copyright 2001 Sun Microsystems, Inc. All rights reserved.

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Wichita, KS 67226-1397
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Using </usr> as the package base directory.
Processing package information.
Processing system information.
3 package pathnames are already properly installed.
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.

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```
## 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>  
/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.

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

Open Storage Array (Usr)
(sparc) 06.22,REV=01.54
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LSI Logic Corporation
3718 North Rock Road
Wichita, KS 67226-1397
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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.
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

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/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
/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/libndscrb.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/ndscrb.dat
/usr/lib/osa/res/ndsec.dat
/usr/lib/osa/res/ndtkit.dat
/usr/lib/osa/res/ndvgm.dat

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```
/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>
/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
```

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sunmanagers mailing list

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