

## scsi vhci driver and QLA2310, multi-path

**Source:** <http://unix.derkeiler.com/Newsgroups/comp.sys.sun.hardware/2005-09/0297.html>

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*scirkven\_at\_gmail.com*

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Hello I have installed qla2310 adapter in sunfire with solaris 8. After the installation of driver for QLA2310 there I can see disks on the switched storage EVA but there is still problem I cannot have activ more than one path to the disk. I have installed SFS\_base\_packages.S8.tar.Z in which is vhci driver but it was not installed. I need to activate multipath switching between two pat for one disk ( two FC qla2310 in one server are installed) Does anyone know why it does not work?

### AVAILABLE DISK SELECTIONS:

```
0. c1t0d0 <SUN72G cyl 14087 alt 2 hd 24 sec 424>
/pci@1c,600000/scsi@2/sd@0,0
1. c1t1d0 <SUN72G cyl 14087 alt 2 hd 24 sec 424>
/pci@1c,600000/scsi@2/sd@1,0
2. c3t0d1 <COMPAQ-HSV110(C)COMPAQ-3025 cyl 12798 alt 2 hd 128 sec 128>
/pci@1e,600000/QLGC,qla@2/sd@0,1
3. c3t1d1 <COMPAQ-HSV110(C)COMPAQ-3025 cyl 12798 alt 2 hd 128 sec 128>
/pci@1e,600000/QLGC,qla@2/sd@1,1
4. c4t0d1 <COMPAQ-HSV110(C)COMPAQ-3025 cyl 12798 alt 2 hd 128 sec 128>
/pci@1e,600000/QLGC,qla@3/sd@0,1
5. c4t1d1 <COMPAQ-HSV110(C)COMPAQ-3025 cyl 12798 alt 2 hd 128 sec 128>
/pci@1e,600000/QLGC,qla@3/sd@1,1
Specify disk (enter its number):
```

```
bash-2.03# showrev
```

```
Hostname:
```

```
Hostid: 83d6c8b7
```

```
Release: 5.8
```

```
Kernel architecture: sun4u
```

```
Application architecture: sparc
```

```
Hardware provider: Sun_Microsystems
```

```
Domain:
```

```
Kernel version: SunOS 5.8 Generic 108528-29 Jan 2004
```

```
[B]
```

```
th eoutput of installation of SFS_base_package.S8:[/B]
```

```
17 SUNWjfcoux JNI Fibre Channel Adapter \"FCA\" (usr) (64-bit)
(sparc) 11.8.0,REV=2003.08.06.21.54
```

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18 SUNWjfcax JNI Fibre Channel Adapter (FCA) Driver (64-bit)  
(sparc) 11.8.0,REV=2003.08.06.21.54  
19 SUNWmdiu Sun Multipath I/O Drivers (usr)  
(sparc) 11.8.0,REV=2003.10.30.14.59  
20 SUNWsan SAN Foundation Kit  
(sparc) 1.0

Select package(s) you wish to process (or 'all' to process  
all packages). (default: all) [?,??,q]: 19

Processing package instance <SUNWmdiu> from  
</opt/driver/SFS\_base\_packages.S8>

Sun Multipath I/O Drivers (usr)  
(sparc) 11.8.0,REV=2003.10.30.14.59  
Copyright 2001 Sun Microsystems, Inc. All rights reserved.

This appears to be an attempt to install the same architecture and  
version of a package which is already installed. This installation  
will attempt to overwrite this package.

Using </> as the package base directory.  
## Processing package information.  
## Processing system information.  
5 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.

Installing Sun Multipath I/O Drivers (usr) as <SUNWmdiu>

## Installing part 1 of 1.  
[ verifying class <none> ]

Installation of <SUNWmdiu> was successful.

The following packages are available:  
1 SUNWcfcl Common Fibre Channel HBA API Library (Usr)  
(sparc) 11.8.0,REV=2002.08.02.16.59  
2 SUNWcfclr Common Fibre Channel HBA API Library (Root)  
(sparc) 11.8.0,REV=2002.08.02.16.59  
3 SUNWcfclx Common Fibre Channel HBA API Library (Usr) (64-bit)  
(sparc) 11.8.0,REV=2002.08.02.16.59  
4 SUNWcfpl fp cfgadm plug-in library  
(sparc) 11.8.0,REV=2001.07.14.21.42  
5 SUNWcfplx fp cfgadm plug-in library (64-bit)  
(sparc) 11.8.0,REV=2001.07.14.21.42  
6 SUNWemlxs Emulex-Sun LightPulse FCA driver (root)  
(sparc) 11.8.0,REV=2005.05.12.12.17  
7 SUNWemlxsx Emulex-Sun LightPulse FCA driver (root) (64-bit)

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(sparc) 11.8.0,REV=2005.05.12.12.17  
8 SUNWemlxu Emulex-Sun LightPulse FCA Utilities (usr)  
(sparc) 11.8.0,REV=2005.05.12.12.17  
9 SUNWemlxux Emulex-Sun LightPulse FCA Utilities (usr) (64-bit)  
(sparc) 11.8.0,REV=2005.05.12.12.17  
10 SUNWfchba Sun Fibre Channel Host Bus Adapter Library  
(sparc) 11.8.0,REV=2002.08.02.16.59

... 10 more menu choices to follow;  
<RETURN> for more choices, <CTRL-D> to stop display:

11 SUNWfchbr Sun Fibre Channel Host Bus Adapter Library (Root)  
(sparc) 11.8.0,REV=2002.08.02.16.59  
12 SUNWfchbx Sun Fibre Channel Host Bus Adapter Library (Usr) (64-bit)  
(sparc) 11.8.0,REV=2002.08.02.16.59  
13 SUNWfcsm FCSM driver  
(sparc) 11.8.0,REV=2002.08.02.16.59  
14 SUNWfcsmx FCSM driver (64-bit)  
(sparc) 11.8.0,REV=2002.08.02.16.59  
15 SUNWjfca JNI Fibre Channel Adapter (FCA) Driver  
(sparc) 11.8.0,REV=2003.08.06.21.54  
16 SUNWjfcaw JNI Fibre Channel Adapter \"FCA\" (usr)  
(sparc) 11.8.0,REV=2003.08.06.21.54  
17 SUNWjfcawx JNI Fibre Channel Adapter \"FCA\" (usr) (64-bit)  
(sparc) 11.8.0,REV=2003.08.06.21.54  
18 SUNWjfcax JNI Fibre Channel Adapter (FCA) Driver (64-bit)  
(sparc) 11.8.0,REV=2003.08.06.21.54  
19 SUNWmdiu Sun Multipath I/O Drivers (usr)  
(sparc) 11.8.0,REV=2003.10.30.14.59  
20 SUNWsan SAN Foundation Kit

```
bash-2.03# cd /kernel/drv
bash-2.03# ls
arp llc1 sd.conf
arp.conf llc1.conf se
bofi lofi ses
bofi.conf lofi.conf ses.conf
bpp log sgen
clone log.conf sgen.conf
clone.conf mm soc
cn mm.conf social
cn.conf mpt sparcv9
conskbd nca ssd
conskbd.conf nca.conf ssd.conf
consms ohci st
consms.conf openeep st.conf
dad openeep.conf stp4020
dad.conf options sy
devinfo options.conf sy.conf
devinfo.conf pcata sysmsg
ecpp pcelx sysmsg.conf
```

ecpp.conf pcic tcp  
esp pcic.conf tcp.conf  
fas pmem tcp6  
fcip pcram tcp6.conf  
fcip.conf pcs tl  
fcp pcer tl.conf  
fcp.conf pem uata  
fesm pem.conf udp  
fesm.conf pln udp.conf  
fp pln.conf udp6  
fp.conf poll udp6.conf  
ge poll.conf usb\_mid  
glm pseudo usb\_sd  
hci1394.conf pseudo.conf usba10\_ehci  
hid ptc usba10\_hid  
hme ptc.conf usba10\_hid.conf  
hubd ptsl usba10\_hubd  
icmp ptsl.conf usba10\_hubd.conf  
icmp.conf q3ip usba10\_ohci  
icmp6 q3ip.conf usba10\_scsa2usb  
icmp6.conf qe usba10\_scsa2usb.conf  
ifp qec usba10\_ugen  
ip qfe usba10\_ugen.conf  
ip.conf qla2300 usba10\_usb\_mid  
ip6 qla2300.conf usba10\_usb\_mid.conf  
ip6.conf qlc usba10\_usbprn  
ipsecah qlc.conf usba10\_usbprn.conf  
ipsecah.conf random usba10\_usbser\_edge  
ipsecesp random.conf usba10\_usbser\_edge.conf  
ipsecesp.conf rts usbprn  
isp rts.conf usbser\_edge  
iwsn rtvc usoc  
iwsn.conf sad wc  
keysock sad.conf wc.conf  
keysock.conf scsa2usb xbox  
le scsa2usb.conf  
lebuffer sd  
bash-2.03# ls -al \*.conf

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/pci@1e,600000/QLGC,qla@3/sd@1,1

Specify disk (enter its number):