

Re: A5000 and qllogic

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- *From:* Peter Eriksson <peter@xxxxxxxx>
 - *Date:* Fri, 2 Feb 2007 13:26:42 +0000 (UTC)
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Michael Vilain <vilain@xxxxxxxx> writes:

In article <1170223291.095028.313370@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>, "BL" <c50342182003@xxxxxxxx> wrote:

Hi,

I have a E250 and A5000 storage but I have no HBA card inside my E250 server. By the way, I have bought a qllogic 2100f from ebay. Can I use it to connect the A5000?

Thanks.

I seem to recall that the SUN A5000 (aka photon) arrays used their own SUN-branded interface. It wasn't standard Fibre protocol so you can't use a Fibre HBA to connect to it.

Some of the SUN SOC/IO+ cards had a compatible fibre port. I tried looking for documentation on SUN's site, but they now seem to require a SUN Online account to access

http://sunsolve.sun.com/handbook_private/Systems/A5000/docs.html

Bottom line, no. Only the SUN Fibre cards work with an A5000.

Wrong. It uses perfectly normal standard 1Gbps FC-AL (Arbitrated Loop).

We have four A5000 arrays connected to a Sun Ultra 450 using Qlogic 2100 HBA adapters, and we used to use some other third-party cards on an

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Ultra 2 (before that server went belly-up).

But to get things to work smoothly I needed some serious configuration of the HBA configuration files (mostly limiting the number of tagged commands issued concurrently).

(The A5000 units are connected to HBA1 via a FC hub)

Relevant parts of my /kernel/drv/qla2100.conf (I use Qlogics own driver) from that server (running Solaris 10 – the driver doesn't officially support Solaris 10 but who cares):

```
# Maximum number of commands queued for each port in the adapter.
```

```
# Range: 0 – 65535
```

```
hba0-max-iocb-allocation=256;
```

```
hba1-max-iocb-allocation=7;
```

```
# Maximum number of commands queued on each logical unit.
```

```
# Range: 0 – 65535
```

```
hba0-execution-throttle=31;
```

```
hba1-execution-throttle=7;
```

```
# Amount of time to delay after a loop reset for starting any new
```

```
# I/O commands.
```

```
# Range: 0 – 255 seconds
```

```
hba0-reset-delay=10;
```

```
hba1-reset-delay=10;
```

```
# Was 5
```

```
# Number of times to retry a port that is not responding.
```

```
# Range: 0 – 255
```

```
hba0-port-down-retry-count=5;
```

```
hba1-port-down-retry-count=5;
```

```
# Was: 30
```

```
# During link down conditions enable/disable the reporting of
```

```
# errors.
```

```
# 0 = disabled, 1 = enable
```

```
hba0-link-down-error=0;
```

```
hba1-link-down-error=0;
```

```
# Was: 1
```

These settings might not be the *optimal* ones, but at least the systems works... (With the default settings, or using Sun's own "qlc" driver) as soon as we would start putting some load on the disks in the A5000 they would start resetting and going off/on the FC bus like crazy...

– Peter

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Peter Eriksson <peter@xxxxxxxxxx> Phone: +46 13 28 2786
Computer Systems Manager/BOFH Cell/GSM: +46 705 18 2786
Physics Department, Linköping University Room: Building F, F203
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