

Re: How does CAM determine the order to number drives ?

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/stable/2004-07/0336.html>

From: Dmitry Morozovsky (*marck_at_rinet.ru*)

Date: 07/31/04

Date: Sun, 1 Aug 2004 00:15:30 +0400 (MSD)

To: Michael Grant <mg-fbsd3@grant.org>

On Sat, 31 Jul 2004, Michael Grant wrote:

MG> Yes, I know this situation all to well. In my case, I ended up
MG> physically plugging and unplugging drives until they ended up in the
MG> right place.

MG>

MG> I would sure love to see a way to fix a drive to an identifier. This
MG> has to be the one thing that has wasted more of my time than anything
MG> else in freebsd. For example, when I had a drive die on me a couple
MG> months back, when the machine rebooted, the dead drive still in the
MG> system, da2 became da1 and things just did not work well.

MG>

MG> If someone knows of a way to tie physical drives to the nodes in /dev,
MG> please let me know. I've heard that this auto drive numbering
MG> is a bios "feature" which is impossible to get around.

root_disk_unit="2"

in /boot/loader.conf ?

MG>

MG> Michael Grant

MG>

MG> On Sat, Jul 31, 2004 at 08:25:58PM +0100, Pete French wrote:

MG> > Hi, I have a small server which boots from an

MG> > Adaptec 2940 controller under CAM, and serves drives

MG> > off a Compaq 4200 RAID controller.

MG> >

MG> > I have spent the afternoon ttrying to upgrade the

MG> > RAID controller from a 4200 to a 5300. The 5300 uses

MG> > the CISS driver rather than the IDA driver, and this

MG> > lives under CAM too. Thus my RAID drives have changed

MG> > from being idad devices to being da devices.

MG> >

MG> > Unfortunately the RAID controller gets scanned first

freebsd-stable: Re: How does CAM determine the order to number drives ?

MG> > so I now have a da0 and a da1 where I didnt before, and my
MG> > root drive has moved to da2.
MG> >
MG> > I can't persuade it to boot like this – it refuses to mount
MG> > the root from da2. The simplest solution, of course, would
MG> > be to somehow force the CAM system to scan the Adaptec
MG> > controller first, so that the root device is back in da0
MG> > where it belongs. But I cant find out if there is a way
MG> > of dojing this, or indeed how the system determines the order
MG> > at all.
MG> >
MG> > Any suggestions ?
MG> >
MG> > –pcf.
MG> >
MG> > PS: System is 4.10-RELEASE, though I suspect this is irrelevant
MG> > _____
MG> > freebsd-stable@freebsd.org mailing list
MG> > <http://lists.freebsd.org/mailman/listinfo/freebsd-stable>
MG> > To unsubscribe, send any mail to "freebsd-stable-unsubscribe@freebsd.org"
MG> > _____
MG> freebsd-stable@freebsd.org mailing list
MG> <http://lists.freebsd.org/mailman/listinfo/freebsd-stable>
MG> To unsubscribe, send any mail to "freebsd-stable-unsubscribe@freebsd.org"
MG>

Sincerely,
D.Marck [DM5020, MCK-RIPE, DM3-RIPN]

*** Dmitry Morozovsky --- D.Marck --- Wild Woozle --- marck@rinet.ru ***

freebsd-stable@freebsd.org mailing list
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