

Re: New disks in 7026

Source: <http://unix.derkeiler.com/Mailing-Lists/AIX-L/2003-12/0315.html>

From: Robert Miller (*rmiller_at_SMUD.ORG*)

Date: 12/30/03

Date: Tue, 30 Dec 2003 10:33:39 -0800
To: aix-l@Princeton.EDU

Hmm, in looking at the options available on the menus I think he may be right. I never actually *added* drives to it (yet), but I did initially set it up... I guess I was just assuming that being able to add drives to an array would be something you would "normally" do and would be easy.

I looked through IBM's site, which was, as usual, just short of useless... the docs on the DU3 were unavailable (yay internal server errors!), and the online docs for the 7026 didn't really look like they mentioned the DU3. The support search didn't seem to turn up anything useful either. Paper docs for the DU3 didn't so much as mention software...

It *appears* that what you should do is add the drive as a hot spare, back up the original array, and then reconstruct the array. I'm really hoping I'm wrong on this and that someone can point us to some docs that show how to add a disk to that critter...

--rm

-----Original Message-----

From: IBM AIX Discussion List [mailto:aix-l@Princeton.EDU] On Behalf Of Hass, Harold
Sent: Tuesday, December 30, 2003 9:15 AM
To: aix-l@Princeton.EDU
Subject: Re: New disks in 7026

Jim,

I'd really LIKE to be wrong!

If you're just looking for the additional space in a couple of vg's, you should be able to make the disks pdisks and add them to the volume groups. But that would mean you would have your existing RAID 5 array, and a non-redundant disk in the vg. Gets you the space, but not the redundancy.

My experiences with IBM array controllers is primarily with SSA, so I welcome any responses to this thread that point out errors in my understanding.

And yes, that's a good thing to be scared of!

Harold

-----Original Message-----

AIX-L: Re: New disks in 7026

From: IBM AIX Discussion List [mailto:aix-l@Princeton.EDU]On Behalf Of Maguire, James
Sent: Tuesday, December 30, 2003 8:58 AM
To: aix-l@Princeton.EDU
Subject: Re: New disks in 7026

Harold,

I sure HOPE you are wrong, but I am having trouble. I can add the disks as hot spares, change them to spares, but I don't seem to be able to add them to the array. All I want to do is add one disk each to 2 existing volume groups. I'm not really supposed to be even supporting this box, and I certainly don't feel like blowing the array away and recreating it. Kind of scares the hell out of me...

Thanks

Jim

-----Original Message-----

From: Hass, Harold [mailto:HHass@CO.FRESNO.CA.US]
Sent: Tuesday, December 30, 2003 11:44 AM
To: aix-l@Princeton.EDU
Subject: Re: New disks in 7026

Jim,

I could be wrong (it happens a lot!) but I do not think you are going to do what it sounds like you want to do. I've never been able to add disks to an existing array. I can create spare drives, or create an additional array (if the particular array controller supports multiple arrays) or use the drives as non-array drives, but not add to an existing array.

It seems logical you should be able to add the drives to expand an array, but the only docs I found said to backup to tape, destroy the array, rebuild with new drives included, restore data. Wish I had a better way.

If I am wrong, I'd be happy to be enlightened.

Harold

-----Original Message-----

From: IBM AIX Discussion List [mailto:aix-l@Princeton.EDU]On Behalf Of Maguire, James
Sent: Tuesday, December 30, 2003 8:20 AM
To: aix-l@Princeton.EDU
Subject: Re: New disks in 7026

Robert,

Here's what I get following your hint...It looks like that's the trick, because it does see them. I suppose I will CAUTIOUSLY add them to the existing array. They then show up in the ADD HOT SPARE option. I am assuming once I do that I can assign them to volume groups, etc. in the usual way?

Thanks!

Jim

```
hdisk2 Available Raid 1 20-58-00-0,0 34715 MB Status OPTIMAL
  hdisk2 10 Channel 1 ID 0 ONLINE - 34715Meg
  hdisk2 28 Channel 2 ID 8 ONLINE - 34715Meg
```

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hdisk3 Available Raid 1 20-58-00-1,0 34715 MB Status OPTIMAL
hdisk3 11 Channel 1 ID 1 ONLINE - 34715Meg
hdisk3 29 Channel 2 ID 9 ONLINE - 34715Meg

hdisk4 Available Raid 1 20-58-00-2,0 34715 MB Status OPTIMAL
hdisk4 12 Channel 1 ID 2 ONLINE - 34715Meg
hdisk4 2A Channel 2 ID A ONLINE - 34715Meg

hdisk5 Available Raid 0 20-58-00-3,0 34715 MB Status OPTIMAL
hdisk5 13 Channel 1 ID 3 ONLINE - 34715Meg

hdisk6 Available Raid 0 20-58-00-4,0 34715 MB Status OPTIMAL
hdisk6 14 Channel 1 ID 4 ONLINE - 34715Meg

hdisk7 Available Raid 0 20-58-00-5,0 34715 MB Status OPTIMAL
hdisk7 2B Channel 2 ID B ONLINE - 34715Meg

hdisk8 Available Raid 0 20-58-00-6,0 34715 MB Status OPTIMAL
hdisk8 2C Channel 2 ID C ONLINE - 34715Meg

15 SPARE on Channel 1 ID 5 - 70007Meg
2D SPARE on Channel 2 ID D - 70007Meg

-----Original Message-----

From: Robert Miller [mailto:rmiller@SMUD.ORG]
Sent: Tuesday, December 30, 2003 11:00 AM
To: aix-l@Princeton.EDU
Subject: Re: New disks in 7026

I have this same hardware setup - try looking in smitty devices -> Disk Array -> IBM PCI SCSI Disk Array
-> PCI SCSI Disk Array Manager, you might find some useful stuff in there.

Once you plug in the drives I *think* the green light should light up on them (may not till you configure them), and with the Disk Array menus you should be able to add them to your current array (or create a new one, though I'm not sure if that adapter will support more than one array...). I remember scratching my head over this till I found those menus...

HTH...

--rm

-----Original Message-----

From: IBM AIX Discussion List [mailto:aix-l@Princeton.EDU]On Behalf Of Patrick B. O'Brien
Sent: Tuesday, December 30, 2003 7:48 AM
To: aix-l@Princeton.EDU
Subject: Re: New disks in 7026

Can you hear the drives spinning up or do you see a green LED on these drives?

You may have to provide AIX with additional drivers. Doing a `cfgmgr -v` may show you AIX is looking for drivers or some other clue.

-----Original Message-----

From: Maguire, James [mailto:James.Maguire@OGS.STATE.NY.US]
Sent: Tuesday, December 30, 2003 7:44 AM
To: aix-l@Princeton.EDU
Subject: Re: New disks in 7026

Yes they are scsi. They are mounted in a 2104-DU3 expandable storage unit. (I'm just reading the specs here, I'm never dealt with this unit before)

Thanks,
Jim

-----Original Message-----

From: John Jolet [mailto:john.jolet@FXFN.COM]
Sent: Tuesday, December 30, 2003 10:23 AM
To: aix-l@Princeton.EDU
Subject: Re: New disks in 7026
i'm not familiar with that drive module...are these scsi disks?

-----Original Message-----

From: IBM AIX Discussion List [mailto:aix-l@Princeton.EDU]On Behalf Of Maguire, James
Sent: Tuesday, December 30, 2003 8:56 AM
To: aix-l@Princeton.EDU
Subject: Re: New disks in 7026

John,

I have never dealt with this machine before, (only worked with F50's), but these go into a 2104 drive module. They don't show up at all. There were 8 disks in it already, and these are the 9th and 10th.

Thanks
Jim

-----Original Message-----

From: John Jolet [mailto:john.jolet@FXFN.COM]
Sent: Tuesday, December 30, 2003 9:42 AM
To: aix-l@Princeton.EDU
Subject: Re: New disks in 7026

You don't say whether they were hotpluggable disks or not, so we'll assume they were. after you inserted the drives, did you get power back to the drive slots? You might check and see if they show up, but as defined, not available.

-----Original Message-----

From: IBM AIX Discussion List [mailto:aix-l@Princeton.EDU]On Behalf Of Maguire, James
Sent: Tuesday, December 30, 2003 7:38 AM
To: aix-l@Princeton.EDU
Subject: New disks in 7026

Hello list. I just received two 73gb drives for a 7026-B80. I put them in place yesterday, and thought they would become available by running cfgmgr, but they do not appear. So, I scheduled a reboot last night hoping that would take care of it, but still no luck. In looking at the Installation instructions it appears that it might need a power off/ power on. Is there any way around that?

Thanks,
Jim