

## Re: New disks in 7026

**Source:** <http://unix.derkeiler.com/Mailing-Lists/AIX-L/2003-12/0316.html>

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**From:** Hass, Harold (*HHass\_at\_CO.FRESNO.CA.US*)

**Date:** 12/30/03

Date: Tue, 30 Dec 2003 10:41:05 -0800  
To: aix-l@Princeton.EDU

Jim,

I don't know the exact menu selections but if you can see the pdisks, that should be enough. You don't want to do an array because of the stuff we've discussed before. I don't know on that array controller how you make pdisks into hdisks so you can add them to the volume groups.

Someone else, can you help Jim here?

Harold

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

From: IBM AIX Discussion List [mailto:aix-l@Princeton.EDU]On Behalf Of Maguire, James  
Sent: Tuesday, December 30, 2003 10:29 AM  
To: aix-l@Princeton.EDU  
Subject: Re: New disks in 7026

Well, they tell me that having these 2 disks non-mirrored is ok. Would I go through the PCI SCSI Disk Array Manager and create a second array (non-raid) on the same adapter? Would this damage/remove/overwrite the existing array?

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

From: Hass, Harold [mailto:HHass@CO.FRESNO.CA.US]  
Sent: Tuesday, December 30, 2003 1:17 PM  
To: aix-l@Princeton.EDU  
Subject: Re: New disks in 7026

Jim,

Nope, you need a minimum of 3 disks to make a RAID-5 array. That's a function of how RAID-5 works. But you can use them as mirrored (RAID-1) and use the result as a single disk, or go with 2 non-RAIDed disks.

Harold

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

From: IBM AIX Discussion List [mailto:aix-l@Princeton.EDU]On Behalf Of Maguire, James  
Sent: Tuesday, December 30, 2003 10:04 AM  
To: aix-l@Princeton.EDU

Re: New disks in 7026

Subject: Re: New disks in 7026

Would I (can I?) create a second array with these two disks? The existing disks (36 GB drives) and these 2 (73 GB drives) are all in the same 2104 unit. I see the option for creating another array, but I don't want to screw up the existing array. Thanks again for your input.

Jim

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

From: Hass, Harold [mailto:HHass@CO.FRESNO.CA.US]

Sent: Tuesday, December 30, 2003 12:15 PM

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-----

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

AIX-L: 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

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

Re: New disks in 7026

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 cfmgr -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-----

Re: New disks in 7026

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 8:56 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 cfmgr, 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