

Re: I'm confused about EFS-5.770a on ML 350 G4

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 - *Date:* Thu, 10 May 2007 23:05:59 -0700
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Steve M. Fabac, Jr. wrote:

I have moved a client's SCO 5.0.7 system from a SuperMicro server to a HP ML 350G4 box. The move was successful but I have questions on regarding the procedure I followed and if I should have done the steps differently.

And most importantly: If I have a problem waiting to happen.

Short description:

I did not run "mkdev cpqciss" on the old system to install ciss disk support into the kernel but performed the necessary steps manually.

My question: Should I now run mkdev cpqciss on the new machine or just forget about it since the ML 350 is up and running and boots without requiring modified boot strings?

Long description:

The technique I followed was to download the HP EFS-5.770a file and unpack it in the /tmp directory on the old server (SuperMicro with Adaptec 2150 ZRC raid running dpti RAID drivers). I copied the btld image to floppy and performed btldinstall and selected the ciss driver. I then ran mkdev hd and specified to add a disk to the ciss driver, rebuilt the kernel and rebooted.

I then used Backup Edge to rebuild the DVD RE2 boot image and wrote it to a CD.

I tested booting the ML 350G4 with the RE2 CD and found that I had to use the string: "defbootstr Sdsk=ciss(0,0,0,0) Srom=wd(1,0,0) to allow Backup Edge to "see" the ciss RAID5 array and mount the CD as "master" on the "secondary" IDE controller (the DVD on the old machine is "master" on the "primary" controller).

Once I knew that the RE2 image would boot the ML350 and allow

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access to the 641 Smart Array Controller and the CD-ROM, I waited for the nightly backup to create a bootable DVD backup of the old system.

I installed a DVD-R+R/RW/RAM drive in the ML-350G4 and booted the DVD backup with the RE2 image. I selected the automatic recovery option of RE2 but that failed when it discovered that the old system RAID5 was 71G and the ML 350 is 68G.

I used the RE2 "editor" and checked the file system layout stored in the RE2 image and manually adjusted the divvy partition to adjust file systems sizes to fit in the 68G space. Once that was done, the "restore all file systems" mounted the file systems and restored the DVD backup image to the ML 350.

I had to boot the ML 350 with the Sdisk=ciss(0,0,0,0) boot string and then ran "mkdev scsi" and removed the hard disks listed in /etc/conf/xf.d/m SCSI, proceeding from last to first: I removed ciss and then dpti. I ran mkdev scsi and added the ciss back into the configuration. I rebuilt the kernel and installed it and upon reboot, the system booted without requiring the Sdisk=ciss(0,0,0,0) boot string.

I ran netconfig and removed the old NIC and when I selected "add new LAN adapter" it identified the on board NIC as: HW HP NC7761 Gigabit Server Adapter - PCI Bus# 1, Device# 2, Function# and I was able to configure the ML 350 with an IP address on a test network (SCO 5.0.7 will not boot if it "sees" the same licenses on another server in the network).

After the system was up, I installed EFS-5.770a on it and reviewed the installation and release notes. I see that the EFS installed the /usr/lib/mkdev/cpqciss script and my question is should I now run "mkdev cpqciss" or just ignore it. (I checked the btld disk and there is no reference to the cpqciss file so it was installed by the EFS and not a part of the btldinstall.)

Sorry to be long winded. I hope that someone with experience with the ML 350G4 and SCO 5.0.7 will take the time to read this and post recommendations or suggestions on what to check or what to watch out for. ---

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Looks right to me. I don't think any driver issues will surface if they have not already.

An alternate would have been:

- Do a fresh install on the new system

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- Restore using Edges ability to re-direct symbolic links to an arbitrary new root, and restore the entire backup to the alt dir.
- Pick and choose what I needed to cpio -pvhd over to their final locations.
- Use ap to restore user logins and passwords from the old system.

Less likely to blow up IMHO if a step is forgotten :)

If that system has ILO (I forget if that appeared with G4 or G4p's), and you use the serial port (modem or UPS say) be sure to turn off the CLI interface in the ILO bios - the default setting will kill the tty1A port if Esc(is passed out that port.

HP has a bulletin out about the problem here:

<http://h20000.www2.hp.com/bizsupport/TechSupport/Document.jsp?objectID=c00843255&dimid=1434317276&dici>

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