Cougar:building and installing cougar proms

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Building Cougar PROM images

```
cd dev/prom/cg
make clean
make

After you did your build, the image(s) are placed in
  ./Install/PROM_SIBYTE_CG/Images

There are 2 images:
  sibfimg_cg.bin  (Normal/ Large  PROM image)
  sibyte_cg.bin   (recovery PROM image)
```

Copy Cougar PROM images to a tftpboot server

Locate a server that is configured to run tftpboot. Linux-compile (10.0.0.143) is setup to serve tftp requests from directory /tftpboot

- create a directory for your filer on 10.0.0.143:/tftpboot. Example for filer g4r5 (10.2.5.4):

```
sudo mkdir -p /tftpboot/10.2.5.4
```

- copy the prom images to your filer's directory.

  cp example if you are logged into linux-compile:

```
sudo cp -p ./Install/PROM_SIBYTE_CG/Images/{sibfimg,sibyte}_cg.bin /tftpboot/10.2.5.4
```

  scp example for builds not mounted on linux-compile:

```
scp -p ./Install/PROM_SIBYTE_CG/Images/{sibfimg,sibyte}_cg.bin root@10.0.0.143:/tftpboot/10.2.5.4
```

Upgrading SSC PROM

1. Find out which PROM you are running from, (so you can update the correct prom).
   At the Prom Prompt, type

```
prom view
```

this will display prom info, and state (recov) or (standard).

2. Copy the prom image files to a tftpboot server, whose IP address will be used in the **prom upgrade** command.
3. Be sure that there is a route to the tftpboot server before issuing the upgrade command; issue "bsd rt add <ip> <mask> <gateway>" if needed. Example:

```
bsd rt add 10.0.0.0 255.255.0.0 10.2.0.1
```

4. If your seep does not have an IP address or netmask configured add a temporary address and netmask. This will last until a reboot. Use your filer's IP address for <ip-address>

```
   bsd ip add fp0 <ip-address> 255.255.0.0
```

5. From SSC:

```
prom upgrade <tftp_ip_addr> <image_name>
```

Example (standard prom):

```
prom upgrade 10.0.0.143 rel-proms/sibfimg_cg.bin
```

Example (recovery prom):

```
prom upgrade 10.0.0.143 rel-proms/sibyte_cg.bin
```

tftp_ip_addr is the address of the tftpboot server where the image file resides. Upgrade utility will determine which PROM to upgrade based on image.

6. Reboot for the upgrade to take effect.

Upgrading TXRX and FP recovery PROM from console

```
1. From SSC:
       load -a 42000000 <ip_addr> <image_name>
2. From TXRX and FP consoles:
   If running recovery as shown by 'prom view'
       prom fill 0 0 42000000 80000
   If running normal as shown by 'prom view'
       prom fill 1 0 42000000 80000
```

Upgrading TXRX and FP normal PROM from console

```
1. From SSC:
        load -a 42000000 <ip_addr> <image_name>
2. From TXRX and FP consoles:
   If running recovery as shown by 'prom view'
        prom fill 1 0 42000000 400000
   If running normal as shown by 'prom view'
        prom fill 0 0 42000000 400000
```

Upgrading TXRX and FP PROMs from runtime

```
          Login as root
          nfxsh
          port show all – Note what links are up, you will need to re-enable the sp2.n interfaces at the end of
          prom upgrade files ftp://upgrade:password@10.2.0.21/PROM-1.0.7-CG.tar.gz
This will get the PROM files and place them in the /boot dir on CF
          prom upgrade standard
Takes about 5 minutes, system will reboot upon successful PROM upgrade
After the system reboots upgrade the Recovery PROMs. The PROM distribution file is on the compact flash.
          Login as root
          nfxsh
          prom upgrade recovery
Takes about 1.5 minutes, system will reboot upon successful PROM upgrade
Due to a prom upgrade bug the ports are disabled and not re-enabled automatically. Your volumes are not visible
After the system reboots
          Login is root
          nfxsh
          port enable sp.2.n – where n equals the last digit – for all interfaces noted at the beginning of this
```

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