

## APPENDIX L

### FRONT END PROCESSOR HARD DRIVE CONFIGURATION PROCEDURES

#### L-1 Basic Check

This procedure is required to set up the Node Name, IP addresses, and date/time for the UNIX operating system on a new Front End Processor (FEP) hard drive (B440-2A2A8-FEP) when it is received from NLSC. The new hard drive will have the UNIX operating system already installed.

**NOTE:** *The CRS Application Software is not loaded on the new hard disk.*

**NOTE:** Use the IP addresses from your system to perform the following steps.

The IP addresses are in the `/etc/hosts` file on the both of the Main Processors (MP) and all of the FEPs. ***This file is the same on all the computers in the CRS system except for the Voice Improvement Processor (VIP).***

To print out or view the host file:

From the master MP CRS Control Interface Screen, click the **Maintenance** menu and select **UNIX Shell** to access a UNIX shell.

To print:

Type `cat /etc/inet/hosts | /lp` and press the **<Enter>** key. (This sends your host file to the printer in the equipment room. Only the MP that is running as the MASTER can send files to the printer.)

To view:

Type `pg /etc/inet/hosts` and press the **<Enter>** key. (This works from both the MPs and FEPs.)

From the FEP Login Screen:

1. Console Login: Type `root` and press the **<Enter>** key.
2. Password: Type `cpe94cpe` and press the **<Enter>** key. (This gives you the {root} prompt)
3. Type `uname -n` and press the **<Enter>** key. This will return the node name of the FEP. The NRC will set the node name (i.e., 1FEP, 2FEP, 3FEP, 4BKUP). If the node name is not correct re-order the hard drive (B440-2A2A8-FEP).

**L-2 Set up IP Addresses**

**NOTE:** The following procedures require the use of the vi Editor (Visual Editor ) in UNIX. The user needs to be familiar with vi Editor commands or have a reference guide to help with using vi Editor (NWSTC Introduction to UNIX Training Guide). This is a read only file, therefore the file permissions must be changed (i.e., `chmod` or use `wq!` in vi editor) after the file is edited in order to save the file.

Type `vi /etc/inet/hosts` and press the **<Enter>** key.  
(This command starts vi Editor so you can modify the file.)

**EXAMPLE of CRS /etc/inet/hosts file ( 2 types )**

## TYPE A

```
#ident "@(#) /etc/inet/hosts.s1 1.1 UW2.01 02/07/95 52758 NOVELL"
#ident "$Header: /sms/sinixV5.4es/rcs/s19-full/usr/src/cmd/cmd-
inet/etc/hosts,v1.1 91/02/28 16:30:32 ccs Exp $"
#
# Internet host table
#
#           Site Name           (site name or ID)
127.0.0.1   localhost             (do not remove, required in system)
165.92.XXX.111  OMP             OMP             (normal operation this is the Master MP)
165.92.XXX.112  5MP             5MP             (normal operation this is the Slave MP)
165.92.XXX.113  1FEP            1FEP            (Front End Processor)
165.92.XXX.114  2FEP            2FEP            (Front End Processor)
165.92.XXX.115  3FEP            3FEP            (Front End Processor)
165.92.XXX.116  4BKUP           4BKUP           (backup Front End Processor)
165.92.XXX.117  ps8             ps8             (LAN Server for AFOS, Printer, ROAMS)
165.92.XXX.121  vip             VIP             (Voice Improvement Processor)
165.92.XXX.122  lb2             LB2             (LAN Bridge)
165.92.XXX.1   as1             as1             (AWIPS)
165.92.XXX.2   as2             as2             (AWIPS)
```

## TYPE B

```
#ident "@(#)/etc/inet/hosts.s1 1.1 UW2.01 02/07/95 52758 NOVELL"
#ident "$Header: /sms/sinixV5.4es/rcs/s19-full/usr/src/cmd/cmd-
inet/etc/hosts,v1.1 91/02/28 16:30:32 ccs Exp $"
#
# Internet host table
#
#           Site Name           (site name or ID)
127.0.0.1   localhost                (do not remove required in system)
165.92.XXX.241  OMP                OMP                (normal operation this is the Master MP)
165.92.XXX.242  5MP                5MP                (normal operation this is the Slave MP)
165.92.XXX.243  1FEP               1FEP               (Front End Processor)
165.92.XXX.244  2FEP               2FEP               (Front End Processor)
165.92.XXX.245  3FEP               3FEP               (Front End Processor)
165.92.XXX.246  4BKUP              4BKUP              (backup Front End Processor)
165.92.XXX.247  ps8                ps8                (LAN Server for AFOS, Printer, ROAMS)
165.92.XXX.251  vip                VIP                (Voice Improvement Processor)
165.92.XXX.252  lb2                LB2                (LAN Bridge)
165.92.XXX.1    as1                as1                (AWIPS)
165.92.XXX.2    as2                as2                (AWIPS)
```

**NOTE:** Only the following sites will use TYPE B: BOU, BYZ, EYW, FSD, GGW, ILM, LBF, SJU, TFX, TOP, UNR.

1. Change the IP addresses to match your system. Use the <Tab> key between IP Address and Node name.
2. Save file using vi write and quit command. Type **wq!** and press the <Enter> key.
3. Verify file is correct by paging it out. Type **pg /etc/inet/hosts** and press the <Enter> key.

### L-3 Set the UNIX System Time, Date, Time Zone, and Daylight Savings

1. Type **/usr/sbin/sysadm** and press the <Enter> key. (Starts UNIX System V Administration,)

**NOTE:** This is a semi-graphical user interface; use the arrow keys to move the cursor.

2. Arrow down to select **system\_setup** and press the <Enter> key.
3. Select **datetime** and press the <Enter> key.

4. Select **set** and press the <Enter> key.
5. Set the correct date, time, time zone, and daylight savings time.
  - a. For time zone, select <F2> for time zone choices and click on appropriate zone.
  - b. For daylight savings time, select **Y** if your office observes daylight savings time.
6. Select <F3> to save.
7. Select <F7> (returns to CMD-MENU).
8. Arrow down to **exit** and press the <Enter> key.  
Type `/etc/shutdown -y -g0 -i0` and press the <Enter> key. UNIX will shutdown and the screen will display *press any key to reboot*.
9. Reboot the computer.

#### L-4 Verify Configuration is Correct

1. Upon completion of boot up, login as *root*.
2. Type **date** and press the <Enter> key. (Verify time and date are correct.)
3. Type `pg /etc/inet/hosts` and press the <Enter> key. (Verify IP Addresses are correct.)
4. If computer is connected to another computer, then type `/usr/sbin/ping 1FEP` and press the <Enter> key. (Response should be *1FEP is alive*.)

**NOTE:** Use this command to check all of your nodes on the CRS (0MP, 5MP, 4BKUP, PS8), 2FEP and 3FEP (if installed). The as1 and as2 nodes are for AWIPS.

If leaving in a system, then type **exit** and press the <Enter> key.

If removing from a system, type `/etc/shutdown -y -g0 -i0` and press the <Enter> key.

UNIX will shutdown and the screen will display *press any key to reboot*.

**NOTE:** The CRS Application Software will need to be installed on this FEP.