How to install RedHat LINUX 5.2 on the PC/104

Version 1.0
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NOTE: The outdated and offensive "master-slave" terminology has been replaced with "Access point (AP) - Station/Endpoint (STA)" in all instances, but will still remain in the configuration software when implemented.

1.0 PC-104 (ScanDisk 192Mb flash drive) configuration

1.1 PC-104 BIOS settings

Set the PC-104 BIOS to the following configuration:

<table>
<thead>
<tr>
<th>CYLS.</th>
<th>HEADS</th>
<th>PRECOMP</th>
<th>LANDZONE</th>
<th>SECTORS</th>
<th>MODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive C: User (192Mb)</td>
<td>734</td>
<td>16</td>
<td>65535</td>
<td>733</td>
<td>32</td>
</tr>
<tr>
<td>Drive D: None</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Disable printer/parallel port (irq 7)
Set BIOS clock to UTC
Make sure that the FlashDrive is set to Master and the CD-ROM Drive is set to Slave.

1.1 RHLinux 5.2 Configuration

Follow the UNAVCO RHLinux 5.2 Installation Notes, but make the following partitions for the 192MB Sandisk flashdrive.

```
Disk /dev/hda: 16 heads, 32 sectors, 734 cylinders
Units = cylinders of 512 * 512 bytes

Device Boot Start End Blocks Id System
/dev/hda1 1 65 16624 82 Linux swap
/dev/hda2 66 734 171264 83 Linux native

Boot loader in /dev/hda Master Boot Record.
```

Only the Networked Workstation option should be installed to keep the configuration to a minimum (~100Mb). To configure LAN, Specify Options and choose address 0x320 and irq 11 for the eth0 interface. The Ethernet card is “NE2000 and Compatible”.

The following additional packages will have to be installed:

- Secure shell: rhssh.tar (from another 5.2 installation)
- Ftp daemon: wu-ftpd-2.0.6-0.5.x.i386.rpm (from another 5.2 installation)
- Mgetty program: /sbin/mgetty (from another 5.2 installation)
- Uucp package: uucp-1.06.1-16.i386.rpm (from 5.2 CD)
- Time server package: xntp3-5.93-4.i386.rpm (from 5.2 CD)

The additional serial ports (two of the four on the LPM/MCM-COM4A card) are configured in the /etc/rc.d/rc.serial file as follows:

```
#!/bin/csh
/bin/setserial /dev/ttyS2 port 0x100 irq 5 uart 16550A
/bin/setserial /dev/ttyS3 port 0x108 irq 15 16550A
```

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