

# PC/104 - How to install RedHat LINUX 5.2 on the PC/104

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## How to install RedHat LINUX 5.2 on the PC/104

Version 1.0

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Author: Oivind Ruud

NOTE: The outdated and offensive "master-slave" terminology has been replaced with "Access point (AP) - Station/Endpoint (STA)" in all instances, but will still remain in the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

```
CYLS. HEADS PRECOMP LANDZONE SECTORS  MODE
Drive C: User (192Mb) 734  16 65535  733  32 NORMAL
Drive D: None
```

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 uart 16550A
```

Posted by: **Beth Bartel** - Tue, Jul 7, 2009 at 4:54 PM. This article has been viewed 2869 times.

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