Installing Unix

Lecture 2
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No matter which one you install

- Deciding which Unix/Linux to use
- Acquiring media
- Planning
- Setting up
- Installing
- Testing
Which to use?

- May depend on hardware
  - *ex: Solaris if Sun hardware*
- What will run on your hardware?
- Tech support needed?
- Is there an application that is required?
- What are you going to use system for?
Minimum Requirements

- *Newer Linux systems should have at least*
  - 64 MB RAM & 200 MHz CPU for text only systems
  - 256MB RAM & 400 MHz CPU for GUI systems
Gather system information

- *If the system runs Windows, run Belarc advisor or some system overviewer.*
- `lspci` - *list pci devices (linux)*
- `lsusb` - *list usb devices (linux)*
- *Pg 40 has a good list of info you’ll need.*
lspci for our server
lspci for our linux server

- 00:00.0 Host bridge: Intel Corp. 440BX/ZX/DX - 82443BX/ZX/DX Host bridge (rev 03)
- 00:01.0 PCI bridge: Intel Corp. 440BX/ZX/DX - 82443BX/ZX/DX AGP bridge (rev 03)
- 00:04.0 ISA bridge: Intel Corp. 82371AB/EB/MB PIIX4 ISA (rev 02)
more lspci

- 00:04.1 IDE interface: Intel Corp. 82371AB/EB/MB PIIX4 IDE (rev 01)
- 00:04.2 USB Controller: Intel Corp. 82371AB/EB/MB PIIX4 USB (rev 01)
- 00:04.3 Bridge: Intel Corp. 82371AB/EB/MB PIIX4 ACPI (rev 02)
even more lspci

- **00:0a.0 Ethernet controller**: Lite-On Communications Inc LNE100TX (rev 20)
- **00:0b.0 SCSI storage controller**: Adaptec AHA-7850 (rev 03)
- **00:0c.0 VGA compatible controller**: S3 Inc. 86c764/765 [Trio32/64/64V+] (rev 43)
lsusb on our server

- *lsusb output:*
- *(No USB devices)*
## Old Server Filesystems

<table>
<thead>
<tr>
<th>Mount Point</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>/dev/hda</td>
<td>/boot</td>
<td>ext3</td>
</tr>
<tr>
<td>/home</td>
<td></td>
<td>ext3</td>
</tr>
<tr>
<td>/</td>
<td></td>
<td>ext3</td>
</tr>
<tr>
<td>/var</td>
<td></td>
<td>ext3</td>
</tr>
<tr>
<td>/dev/hdc</td>
<td>/usr</td>
<td>ext3</td>
</tr>
<tr>
<td>--</td>
<td>swap</td>
<td></td>
</tr>
</tbody>
</table>

- /dev/hda contains the boot filesystem with 102MB space.
- /home has 4518MB of ext3 filesystem.
- The root filesystem (/) has 510MB of ext3 space.
- /var has 1020MB of ext3 space.
- /dev/hdc contains the /usr filesystem with 5985MB of ext3 space.
- The swap partition has 188MB.
Disk Planning

- Swap size should be at least the size of RAM you have.
- You can make one large partition on a disk, or split it to protect areas that could grow.
- Root partition (/) takes OS and Apps.
Our Network info

- Hostname: cis106.occ.cccd.edu
- IP Address: 159.115.213.222
- Subnet Mask: 255.255.255.0
- Gateway: 159.115.213.254
- DNS servers: 159.115.193.195, 159.115.1.5, 159.115.212.247
Getting the install media!

- [http://linuxiso.org](http://linuxiso.org)
- Fast connection
- Download ISO files
- Burn the ISOs as disks
Installing! (Chap 3)

- We’ll now take a break and start the installation process.
- We’ll use Chapter 3 as a guide. Please follow along in the book...!