

## Linux capture computer installation guide

This guide applies to both the audio and video capture computers. The Linux and AG software installations are the same. The customization script will inspect the machine (via `lspci`) to see if there are audio or video capture cards installed, and install the appropriate drivers.

### Install base linux

- 1) Insert cdrom
- 2) Boot machine
  - a) If machine doesn't boot from CD, you may have to look at the BIOS boot device preferences. Alternatively, you can build a boot floppy that will then load from the CDROM.
- 3) At boot: press <enter>
  - a) X windows installer should come up.
  - b) If it doesn't come up, check to see if mouse isn't connected
  - c) If it still doesn't come up, you can go ahead with the text-based install.
- 4) Take defaults... this is what comes up on my install. Might be different for different hardware.
  - a) English
  - b) Generic 101-key PC keyboard, US english w/ISO9995-3 keyboard, no variant
  - c) 3 button mouse
  - d) Gnome Workstation
  - e) Remove data (I use this for installing onto bare machine, so that you don't have to deal with disk partitions)
  - f) Network setup. We operate in a DHCP environment, so that we don't have to deal with individually configuring network addresses. If you don't have DHCP in your environment, enter the network address as assigned for your machine.
  - g) Set the timezone for your location.
  - h) Set the root password, and create an access grid account.
  - i) Configure the X stuff, selecting customization if needed for the monitor you have. Choose graphical logon.

After this process finishes, reboot as asked by the installer (remove the CDROM first!). When the machine comes back up, it should be alive and on the net. It might have an X login window showing, or it might not (the machines I've built haven't had that come up right, but I might be weird).

### Install AG software

- 1) Log in as root. Start netscape, and go to <http://www.mcs.anl.gov/fl/accessgrid/softdownload.htm>. Download the customization script from the Linux software section.
- 2) Insert the RedHat 6.1 CDROM in the CDROM drive.
- 3) Run the script:

```
sh customize
```

This will tighten up security, install NTP (and point it at the AG time server), install AG software, set up audio and video drivers as appropriate, and other configuration required for an AG capture machine.

- 4) Set the display machine. For the virtual venue software to work, the capture machines need to be configured with the hostname of the display machine. To do this, run  
`/usr/local/ag/bin/set-display-machine display-hostname`
- 5) On the video capture machine, the capture card mapping needs to be configured. To do this, run  
`/usr/local/ag/bin/setup-config`  
Select the appropriate capture port for each device, and the use of the camera attached to that device (presenter, audience, etc). The Test button will start a vic session capturing from that device so that you can see the mapping of camera to device. Give your node a name, and press “write output” to generate the configuration file.
- 6) Reboot the machine. It should come up with X windows running, and ready to run the virtual venues software.