

Installing ISABEL:

A how to guide in installing the
ISABEL Application

Topics

- Installing the Advanced Linux Sound Architecture (ALSA) Drivers
- Installing ISABEL
- Upgrading ISABEL

Installing ALSA Drivers

- The ISABEL application makes use of the ALSA drivers, and no longer support the OSS drivers.
- The developers of ISABEL have included pre-compiled ALSA drivers for specific kernels.
- These drivers are available off of the BADLAB ftp server at <ftp://gamma.badlab.crc.ca> as anonymous. File is called `alsa.tgz`.
- To extract this file, perform the following command at the terminal prompt:

`“tar -zxvf alsa.tgz”`

- The rpm files are extracted to the `~/alsa` directory.
- Select the appropriate rpm file for your specific kernel.
- The ALSA rpm are available for the following kernels:
 - 2.2.5-15
 - 2.2.12_20
 - 2.2.12_32
 - 2.2.14_5.0
 - 2.2.14_5.0smp
 - 2.2.15-0

- To install the ALSA rpm file, perform the following command at the terminal prompt:

`“rpm -i <file name>”`

where file name is the ALSA rpm file.

- Next, run the command “alsaconf” and follow the instructions to set the the ALSA drivers to your specific audio card.
- For all other kernels, the ALSA drivers can be downloaded from <http://www.alsa-project.org>.

- These ALSA drivers are non-compiled drivers, and take more time to install. Avoid if possible, unless you feel comfortable with Redhat and compiling and editing files.

Installing ISABEL

- Before installing the ISABEL application, the ALSA drivers must be installed.
- OSS drivers will not run with the newer versions of ISABEL
- ISABEL is downloadable from the BADLAB FTP server at <ftp://gamma.badlab.crc.ca>
- Current full release of ISABEL is DITisabel-3R5-0.i386.rpm
- Most current beta version is DITisabel-4R0_beta01-0.i386.rpm

- To install the ISABEL application, simply run the following command as super user:

`“rpm -i <file name>”`

where filename is the name of the ISABEL rpm file.

Upgrading ISABEL

- Since ISABEL is in development, you will notice that a beta version will go through a number of builds. These builds are not compatible with one another, and constant upgrades are usually needed.
- These new builds, and beta version usually have bug fixes in them.
- The upgrade command for Redhat is

`“rpm -U <file name>”`

where file name is the name of the ISABEL rpm file.

Launching ISABEL

- To launch the ISABEL Application, simply type “isabel” as the terminal prompt.
- The file v4l.conf must be edited. This file is generated by the frame grabber.
- This file is located in the `~/ .isabel/` directory.
- The line “vnorm 0” must be changed to “vnorm 1”.
- Save this change, and reset the video on the ISABEL partners menu.