Configurations » Access Grid » ballard.ccr.buffalo.edu
ALSA Sound Drivers

The drivers will need to be recompiled each time that a new kernel is installed.

1. **Compile the ALSA sound module for the Ensoniq 5880 (snd-ens1371). The modules will be installed into /lib/modules//kernel/sound**

```
#> bzcat alsa-driver-1.0.7.tar.bz2 | tar xf -
#> cd alsa-driver-1.0.7
#> ./configure --with-kernel=/usr/src/linux-2.4 --with-redhat=yes --with-oss=yes --with-car
#> make
#> make install
```

2. **Set up /etc/modules.conf**

```
Comment out existing soundcard info in /etc/modules.conf:

#alias sound-slot-0 es1371
#post-install sound-slot-0 /bin/aumix-minimal -f /etc/.aumixrc -L >/dev/null 2>&1 || :
#pre-remove sound-slot-0 /bin/aumix-minimal -f /etc/.aumixrc -S >/dev/null 2>&1 || :

Add the following ALSA lines to /etc/modules.conf:

# ----- Start sound entries
# ALSA portion
alias char-major-116 snd
alias snd-card-0 snd-ens1371
# OSS/Free portion
alias char-major-14 soundcore
alias sound-slot-0 snd-card-0
# Autoload OSS/free emulation (card #1)
alias sound-service-0-0 snd-mixer-oss
alias sound-service-0-1 snd-seq-oss
alias sound-service-0-3 snd-pcm-oss
alias sound-service-0-8 snd-seq-oss
alias sound-service-0-12 snd-pcm-oss
# ----- End sound entries

# Post-Install unmute devices
post-install snd-card-0 /usr/local/bin/amixer set Master unmute > /dev/null 2>&1 || :
post-install sound-slot-0 /usr/local/bin/amixer set Master unmute > /dev/null 2>&1 || :
```

3. **Compile the ALSA library needed by the mixer and install into /usr/local**

```
#> bzcat alsa-lib-1.0.7.tar.bz2 | tar xf -
#> ./configure --prefix=/usr/local
#> make
#> make install
```

4. **Compile the ALSA utilities and install into /usr/local**

```
#> bzcat alsa-utils-1.0.7.tar.bz2 | tar xf -
#> ./configure --prefix=/usr/local
#> make
#> make install

/usr/local/bin/aserver
/usr/local/bin/alsalisp
/usr/local/bin/alsamixer
```

```
/usr/local/bin/amidi
/usr/local/bin/amixer
/usr/local/bin/aplay
/usr/local/bin/arecord
/usr/local/bin/iecset
/usr/local/bin/aconnect
/usr/local/bin/aplaymidi
/usr/local/bin/arecordmidi
/usr/local/bin/aseqnet
/usr/local/bin/speaker-test
```

5. **You may need to load the modules at boot if rat doesn't cause them to load automatically. If the mixer mutes the volumne by default then the settings can be set in /etc/rc.d/rc.local**

```
#
# Rat doesn't seem to load the ALSA modules so do it here
#

echo -n $"Loading ALSA sound modules: "
modprobe snd-ens1371
if [ $? -eq 0 ]; then
        echo "[ OK ]"
else
        echo "[ FAILED ]"
fi

#
# The mixer controls are muted buy default, unmute and set default volume
#

echo -n $"Initializing ALSA mixer settings: "
if [ -x /usr/local/bin/amixer ]; then
        /usr/local/bin/amixer set Master 75%,75% unmute 1>/dev/null 2>&1
        if [ $? -eq 0 ]; then
                echo "[ OK ]"
        else
                echo "[ FAILED ]"
        fi
else
        echo "[ FAILED ]"
fi
```

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