Open Sound System 4.0 Installation Notes

Introduction:

The OSS v4.0 brings many new features to the "de-facto" OSS API designed by 4Front Technologies. The audio engine has been completely overhauled and provides significant advances in software based audio rendering and mixing. OSS v4.0 now features a full duplex virtual audio technology that mixes audio in real-time with complete application transparency.

Driver Name	Chipset Name
allegro	ESS Allegro, ESS Maestro3, Canyon3D
als300	Avance Logc ALS300, ALS300+
als4000	Avance Logic ALS4000
apci97	Creative Labs SBPCI128, ES1371, ES1373, AudioPCI97
audigyls	Creative Labs AudigyLS, SBLive 7.1
audiopci	Creative Labs SBPCI128 ES1370
cmpci	CMI8738, CMI8768
cmi8788	CMI8788
cs4280	Cirrus Logic Crystal CS4280, Turtle Beach Santa Cruz, Videologic Sonic Fury
cs4281	Cirrus Logic Crystal CS4281
emu10k1x	Creative Labs 10K1X (DELL SBLIVE 5.1 OEM)
envy24	MAudio Delta-1010/1010LT/66/44/410, Audiophile 2496, Audiophile 192, Terratec EWS88
envy24ht	MAudio Revolution 7.1, Revolution 5.1 Terratec Aureon, Prodigy 7.1, Envy24 PT, Envy24HT-S
fm801	ForteMedia FM801, FM801AU
geode	National Semiconductor Geode NS5530
Ich	Intel: ICH/ICH2/ICH3/ICH4/ICH5/ICH6 Nvidia: nForce1/nForce2/nForce3/nForce4/CK8S SiS7012, AMD 8111, AMD 768
lynxone	LynxONE Studio
lynxtwo	LynxTWO, LynxTWO AES16 Studio
maestro	ESS Maestro1, ESS Maestro2/2E
neomagic	NM2200AV, NM2200ZX
riptide	Conexant Riptide
s3vibes	S3 Sonic Vibes
sbive	Sound Blaster: Live/MP3/Platinum, Audigy, Audigy2, Audigy2ZS, Audigy2-Value
studio	Sonorus Studio
trident	Trident 4Dwave DX/NX, SIS 7018, ALI5451
ossusb	USB Audio and MIDI class drivers
via8233	VIA: 8233, 8235, 8237
via97	VIA VIA82C686A, VIA82C686B
vortex	Aureal Vortex1, Vortex2
ymf7xx	Yamaha YMF724, 744, 754, 740
hdaudio	Intel High Definition Audio (Azalia): Intel, Nvidia, ATI, VIA, ULi, SIS.

Installation on Linux:

WARNING: Linux 2.6 kernel with kernel sources (or kernel headers), GCC Compiler, Binutils, GNU Make, GTK/GLIB 2.0 libraries must be installed before you can install OSS. Please consult your Linux distributor's manuals on how to install and prepare the kernel sources so that external drivers and modules can be compiled for your kernel.

Installation Steps:	**Uninstallation Steps:**

Installation Steps:

1. Log on as root in Console Session (if you're logged in Gnome/KDE, you'll need to exit and press <Ctl><Alt><F1> and log in on the Console)

   - RPM package:
     rpm –I oss-linux -v4.0-123-i386.rpm

   - DEB package
     dpkg –I oss-linux_v4.0-123_i386.deb

   - TAR package:
     cd /
     tar –jxvf oss-linux-v4.0-123-i386.tar.bz2
     sh /usr/lib/oss/build/install.sh

2. You will have to reboot the system if OSS replaced any driver previously detected.

3. To test that the audio package is correctly installed type: osstest and you should hear the test sounds on the front left, right and both speakers. Now log out of the console session

Uninstallation Steps:

1. Log on as root in Console session (i.e. you need to log off KDE/Gnome). Now type soundoff to disable audio

   - RPM Package:
     rpm –e oss-linux

   - DEB Package:
     dpkg –purge oss-linux

   - TAR Package:
     sh /usr/lib/oss/scripts/removeoss.sh

2. To restore any original audio driver configured prior to OSS you will need to use your distribution's audio device configurator. Log out and log back in.

Installation on Solaris:

Requirements: Solaris 8,9,10,11, GTK/GLIB-1.2.10 libraries

Installation Steps	**Uninstallation Steps:**
1. Log on as root	1. Log on as root
2. pkgadd -d oss-solaris-v4.0-123-i386.pkg	2. pkgrm oss
3. You will have to reboot the system if OSS replaced any driver previously detected.	3. reboot the system
4. To test that the audio package is correctly installed type: osstest and you should hear the test sounds on the front left, right and both speakers.	

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Instlalation on FreeBSD:

Requirements: FreeBSD 6.1 or higher. GTK/GLIB 2.0 libraries

Installation Steps	**Uninstallation Steps:**
1. Log on as root	1. Log on as root and type soundoff to disable audio
2. pkg_add oss-freebsd-v4.0-123-i386.tbz	2. pkg_delete oss_freebsd_v4.0-123-i386
3. You will have to reboot the system if OSS replaced any driver previously detected.	3. Reboot the system
4. To test that the audio package is correctly installed type: osstest and you should hear the test sounds on the front left, right and both speakers.	

Installation on SCO UnixWare/Open Server 6:

Requirements: GTK/GLIB-1.2.8 (Unixware) or GTK/GLIB-2 for OSR6

| **Installation Steps** | **Uninstallation Steps:** |

Installation Steps

1. Log on as root

2. pkgadd -d <full path>/oss-osr6-v4.0-123-i386.pkg

3. You will have to reboot the system if OSS replaced any driver previously detected. If no audio driver

4. To test that the audio package is correctly installed type: osstest and you should hear the test sounds on the front left, right and both speakers.

Uninstallation Steps:

1. Log on as root

2. pkgrm oss

3. Reboot the system

Bundled OSS applications and utilities:

The OSS package comes with the following utilities:

- **ossplay** – a command line wav/au file player
  Usage:
  ossplay –v foo.wav

- **ossrecord** – a command line wav file recorder
  Usage:
  ossmix mic.rec ON
  ossrecord –s48000 –b16 –c2 test.wav

- **ossmix** – command line mixer application
  Usage:
  ossmix vol 100 pcm 100 mic.rec ON

- **ossxmix** – GTK based GUI mixer application
  Usage:
  ossxmix –d1 (for virtual mixer) or ossxmix –d0 (for physica device mixer)

- **ossctl** – GTK based app for controlling order of the OSS devices
  Usage:
  ossctl (will create /usr/lib/oss/etc/dspdevs.map file on exit)

- **ossdetect** – automatic detection application
  Usage:
  ossdetect to detect devices
  ossdetect –i to detect devices and install IMUX driver

- **savemixer** – saves mixer and audio routing information
  Usage:
  savemixer – to save the mixer (will create /usr/lib/oss/etc/mixer.save file)
  savemixer –L to load saved mixer.save and dspdevs.map settings

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- **ossinfo** – command line utility for displaying OSS device configuration and info.
  Usage:
  ossinfo will display the oss device info (like cat /dev/sndstat)
  ossinfo –v will display verbose Information

- **osslic** – install the OSS License Key

- **ossupdate** – download and install updated version of Open Sound.
  Usage:
    ossupdate –t (download from test directory)
      default: download from Release

Installing your OSS License Key:

If you have an Open Sound System license key file (a text file named: Nxxxxxxxx.asc or license.dat), you can type osslic <filename> and then reboot or restart OSS by running soundoff and soundon. Check that the license has been properly registered by typing cat /dev/sndstat (or typing ossinfo)

OSS V4.0 Programming Documentation:

The complete Open Sound System v4.0 programming guide is available at:
http://manuals.opensound.com/developer/index.html

Technical Support

Should you require any technical support for the Open Sound System product, please fill out the support request form at: http://www.opensound.com/support.cgi or you may call 4Front Technologies at +1 310 202 8530 between 9AM – 5PM Pacific Time (GMT-8)