

## 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 Logic ALS300, ALS300+
als4000	Avance Logic ALS4000
apci97	Creative Labs SBPCI128, ES1371, ES1373, AudioPCI97
audigy1s	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
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	Sonus 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.

## **Solaris:**

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

### **Installation Steps**

1. Log on as root
2. `pkgadd -d oss-solaris-v4.0-123-i386.pkg`
3. You will have to reboot the system if OSS replaced any driver previously detected.
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

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## **Linux:**

Requirements: Linux 2.6 kernel – with kernel sources. GTK/GLIB 2.0 libraries  
Ubuntu/Debian: gcc, make, binutils, kernel-source (make prepare/make prepare scripts need to be run after installing kernel source)

### **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)
2. `rpm -I oss-linux -v4.0-123-i386.rpm`  
(RPM FORMAT)  
or  
`dpkg -I oss-linux_v4.0-123_i386.deb`  
(DEB FORMAT)
3. You will have to reboot the system if OSS replaced any driver previously detected.
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. Now log out of the console session

### **Uninstallation Steps:**

1. Log on as root in Console session (ie you need to log off KDE/Gnome). Now type `soundoff` to disable audio
2. `rpm -e oss-linux`  
or  
`dpkg -purge oss-linux`
3. 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.

### **FreeBSD:**

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

#### **Installation Steps**

1. Log on as root
2. `pkg_add oss-freebsd-v4.0-123-i386.pkg`
3. You will have to reboot the system if OSS replaced any driver previously detected.
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 and type `soundoff` to disable audio
  2. `pkg_delete oss_freebsd_v4.0-123-i386`
  3. Reboot the system
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### **SCO UnixWare/Open Server 6:**

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

#### **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
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### **Installing OSS License Keys:**

**If you have a permanent OSS license key, then install the license key as follows:**

**Log in as root and type:    `osslic <license file name>`**

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## Usage OSS:

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 physical 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
- **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

## 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)