

Re: Complete Linux Recording Package Ready To Roll.

Source: <http://linux.derkeiler.com/Newsgroups/comp.os.linux.misc/2005-08/1565.html>

From: Jona Vark (noemail_at_all.com)

Date: 08/14/05

Date: Sun, 14 Aug 2005 20:00:21 GMT

"Dallas Bob" <dallas_holms@yahoo.com> wrote in message news:1124046570.005643.121220@o13g2000cwo.googlegroups.com... I have a complete, fully configured Linux in a box recording package for sale. This system is based on the Agnula project <http://www.agnula.org/> and includes a complete Linux recording system for both audio and video.

The heart of the system is an IBM Thinkpad T-23 complete with a an RME interface.

<http://www.sweetwater.com/store/detail/Cardbus/>

Software included with the rhmudi package as listed here:
How to install Rehmudi-2.0

A) Install From CDROM

If you had already installed Fedora Core 1

1. insert cdrom Rehmudi-2.0 into the CDROM Drive
2. be root and execute "mount /mnt/cdrom" (mounting cdrom)
3. execute "cd /mnt/cdrom" (enter in the directory where there is Rehmudi trees)
4. execute "./install.sh" (install Rehmudi)
5. After installation : reboot your machine
6. during reboot kudzu will detect you materiels, click "OK" or "Configure" for all peripherals detected (all configuration will be done automatically)
7. you can test for example alsaplayer

nb : if you don't have any sound, check your sound mixer

nb : not sound after checking your mixer , reboot your machine to take alsas driver effect

nb : after reboot, always not sound, use alsacnf to configure manually

alsa drivers that will update your /etc/modules.conf file ... reboot

B) If your machine is blank (not OS installed in you machine)

- Â Â Â 1. insert first cdrom Fedora Core 1, boot on this cdrom
- Â Â Â 2. follow anaconda instructions
- Â Â Â 3. anaconda will ask you to insert the 2nd and 3th cdrom
- Â Â Â 4. after installation , follow instructions of A) How to install from CDROM

nb : Test was done with "Desktop Installation" option of Fedora Core 1 installation i will advice you to install complete distribution of Fedora Core 1 to avoid dependencies problems Rehmudi-2.0

More about installation of Fedora Core 1 before installing Rehmudi

1. first, you have to install all Fedora Core 1 with KDE or GNOME graphical interface. If you have already installed Fedora Core 1 full release, see next

I advice you to install the full distro of Fedora Core 1 because of all dependencies of Agnula Packages ...

If you did not install the full distro of Fedora Core 1, so update your Fedora Core 1 for full distro (it will only add all packages that were not installed during your latest install).

If you are still on Red Hat Linux 7.3, So update you machine on Red Hat Linux 8.0 , 9.0 and Fedora Core 1 in final

2. download "Rehmudi-2.0" (iso, tar.bz2) from <http://download.agnula.org/rehmudi> as "anonymous" user

3. mount /mnt/cdrom
cd /mnt/cdrom
./install.sh

"install.sh" script will prepare your system/hardware environment by installing kernel in Low Latency, alsa module (alsa-kernel), kudzu (for automatic detecting sound cards)

4. reboot your machine for the first time (it will configure all sound card, mouse, network interface etc ... devices) and allow you to boot from the new kernel. Please boot on the "2.4.22-6.ll" or on the "2.4.22-6.ll.smp" kernel not on your old kernel.

During the reboot, kudzu will redetect all your hardwares, please click on OK for all kudzu detects

5. After rebooting your machine, test if you have sound with alsa drivers (execute xmms or alsaplayer)

If you don't have any sound check :

mixer (alsamixerGUI)

sound card connecting with your speakers

In final, execute "alsaconf" for configuring alsa drivers detecting (/etc/module.conf)

nb : theoretically, kudzu detect your sound card and update your /etc/module.conf

6. Make the final reboot now to take Alsa sound devices effects.

Technical specification

Content of agnula_installer tree :

Bonus

Changelog

docs

errors

install.py

install.sh

list_packages

oldconfig

RPM-GPG-KEY-fedora

RPMS

SRPMS

uninstall.sh

* Bonus contains some alsa packages and kernel with newer version and jdk for Jmax, you can find back install.py.old that is version 1.1 of rehmudi installer ... if you usually use it, feel free to use it back

~/list_packages/install.in contain the list of Agnula packages for

install.py script it's now in ~/list_packages

~/list_packages/g_*.rpm list of group dependances of packages for install

~/list_packages/u_g_*.rpm list of group dependances of packages for uninstall

* docs contains documentations of rehmudi-2.0, all descriptions of each RPM package

* errors, some errors compiling during rehmudi building, those RPMS will be not in rehmudi-2.0, just for developers who want to contribute in our project and offer us patches ... thank you by advanced

olfconfig initially empty, but after installation ... it contains your old system configuration like /etc/modules.conf and /etc/sysconfig/hwconf this directory is used for restoring your old configuration

install.sh install kernel Low Latency and pmw packages and call install.py for GUI installer

install.py GUI installer which install all Agnula packages

nb : the particularity of rehmudi-2.0 is : When Gui installeur is displayed, this allow you to select the packages that you want, by default all packages are choosen (set 1).

nb : At line 168, you can switch button.set_active(1) or button.set_active(0) for select all or deselect all .

install.log is created by install.sh during the install process

docs/INSTALL is this file

RPMS contains all binary

SRPMS contains all SOURCES RPMS

Alsa drivers

I've only substituted the PCI OSS drivers by the PCI ALSA drivers, if never you have an ISA sound card again, please configure it bye "redhat-config-soundcard".

If your ALSA soundcard driver is in the alsa-drivers-0.9 package, but it was not loaded in the memory (see bye "lsmod"), please add it into the /etc/modules.conf manually and see www.alsa-project for detailed support, or mail me on users@lists.agnula.org, i'll try to reply you as soon as possible. Check if alsasound service is UP if not execute "chkconfig alsasound on" Or execute "alsaconf".

How to boot by default on the new kernel

By default, the OS boot on your new kernel in Low Latency ... if not :

You can configure /boot/grub/grub.conf by setting default=<value> ("0" if the new kernel is on the first line, or "1" is it is on the second line ...) to boot you machine automatically on the new kernel

for example :

in my /boot/grub/grub.conf

comp.os.linux.misc: Re: Complete Linux Recording Package Ready To Roll.

```
default=1 # boot on the 2.4.22-6.ll kernel by default
timeout=10
splashimage=(hd0,0)/boot/grub/splash.xpm.gz
title Red Hat Linux (2.4.22-6.ll)
    root (hd0,0)
    kernel /boot/vmlinuz-2.4.22-6.ll ro root=/dev/md0 hdd=ide-scsi
    initrd /boot/initrd-2.4.22-6.ll.img
title Red Hat Linux (2.4.22-6.llsmp)
    root (hd0,0)
    kernel /boot/vmlinuz-2.4.19-1.1lsmp ro root=/dev/md0
hdd=ide-scsi
    initrd /boot/initrd-2.4.19-1.1lsmp.img
title Red Hat Linux (2.4.18-3smp)
    root (hd0,0)
    kernel /boot/vmlinuz-2.4.18-3smp ro root=/dev/md0 hdd=ide-scsi
    initrd /boot/initrd-2.4.18-3smp.img
```

default=1 --> means that i'll boot on the "(2.4.21-1.1lsmp)" kernel
because my machine is 4 processors

Ardour

Before executing "ardour" (/usr/bin/ardour) do not forget to copy from
/usr/ardourrc to \$HOME/.ardourrc

```
"cp /usr/ardourrc $HOME/.ardourrc"
"/usr/bin/ardour"
```

nb: don t forget to run jackd before executing ardour ("jackd -d alsa")

Jmax

```
Name      : jmax-agnula-java          Relocations: (not
relocateable)
Version    : 4.0.2                  Vendor: (none)
Release    : 2                      Build Date: Tue 14 Oct 2003
11:17:28 AM CEST
Install Date: (not installed)       Build Host:
localhost.localdomain
Group      : Applications/Multimedia Source RPM:
jmax-agnula-4.0.2-2.src.rpm
Size       : 1356317                License: GPL
Signature  : (none)
Packager   : Patrice Tisserand
Summary    : Java gui for jMax
Description :
Java Graphical User Interface for jMax
IMPORTANT WARNING: Even though the <jmax-java> package itself is
licensed as Free Software under the GNU General Public License (GPL),
it depends upon a proprietary Java runtime environment, so in order
to be able to use it, you would also have to find, install and run
proprietary software.
The AGNULA consortium only provides the package for completeness
```

comp.os.linux.misc: Re: Complete Linux Recording Package Ready To Roll.

reference or reimplementing purposes.

There are freedom-preserving alternatives to this package and we encourage you to choose those instead, namely the <jmax-bindings> Python bindings.

Should you choose to proceed, information about the Java Runtime Environments is available at

<http://www.ircam.fr/jmax>

Information about the Java situation and its problems along with the efforts to finally Free Java are available at

<http://fsfeurope.org/projects/agnula/java.html>

so What you have to do to make Jmax running :

```
cd /mnt/cdrom/Bonus
```

```
./j2sdk-1_4_2-nb-3_5_1-bin-linux.bin
```

```
<choose> PATH to instal jdk for ex /opt/j2sdk-1_4_2-nb-3_5_1
```

```
export PATH=/opt/j2sdk-1_4_2-nb-3_5_1/j2sdk1.4.2/bin
```

```
/usr/bin/jackd -d alsa # if jackd is not started, start it because Jmax need it
```

```
/usr/bin/jmax
```

```
((The T-23 has 512mb ram and a 20 gigabite hard drive.))
```

I am asking \$3,150.00 for the entire package and that includes shipping and insurance to anyplace in the world.

Please email me for more details and thank you for your consideration.

dallas_holms@yahoo.com

Oh.. Yeah.. Seems easy enough. Doh!