

Installation of driver USB under linux

Edition n°3 01-13-2005

Distributions Mandrake, Fedora Core, SuSE

This document explains step by step the installation of the module eagle-usb v1.9.9 of the task force eagle-usb.org, a patch Sagem must be applied there to make this driver compatible with the modem eagle III

Necessary

The installation must be carried out by having the rights of the administrator 'root'.

Compiler GCC must be installed.

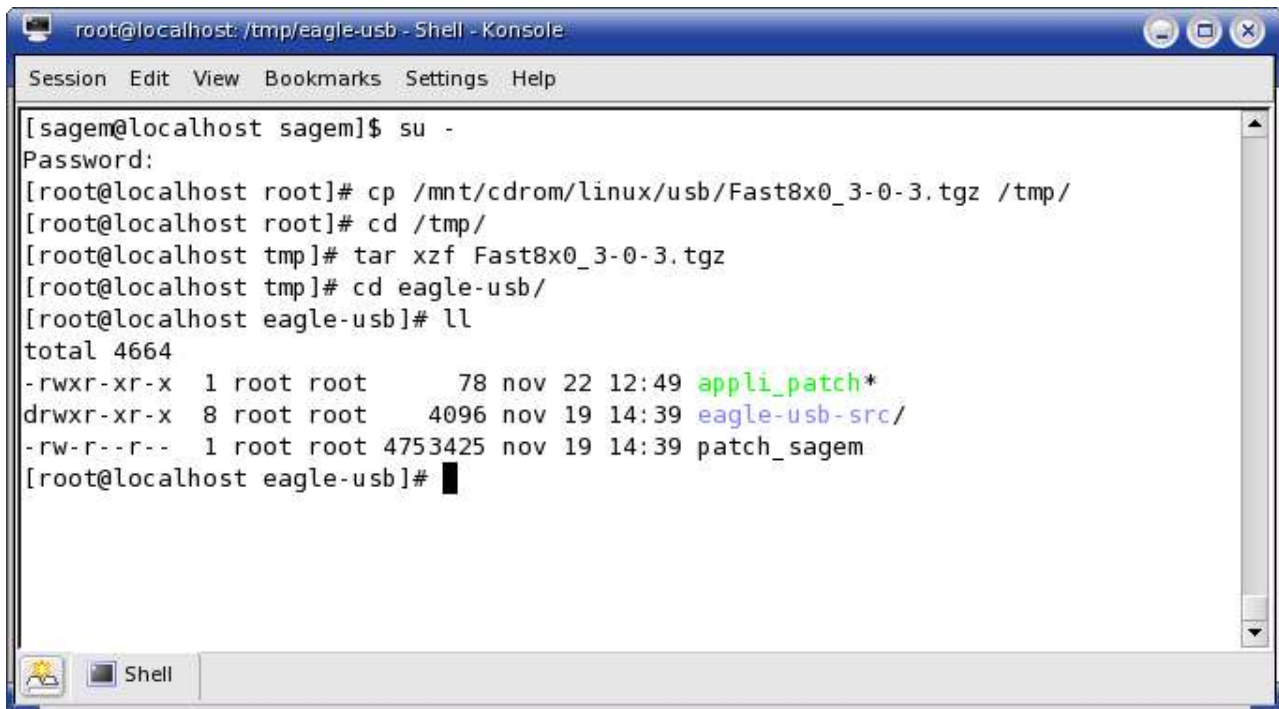
The sources of the linux core must be installed.

Installation

Stage 1 - working directory

Start a terminal and place in session root with the order `su -` (the password root is required). Copy the archive file under the directory `/tmp` and unpack it with the order `'tar xzf archive_file_name'`.

Place under the directory lately created, eagle-usb.



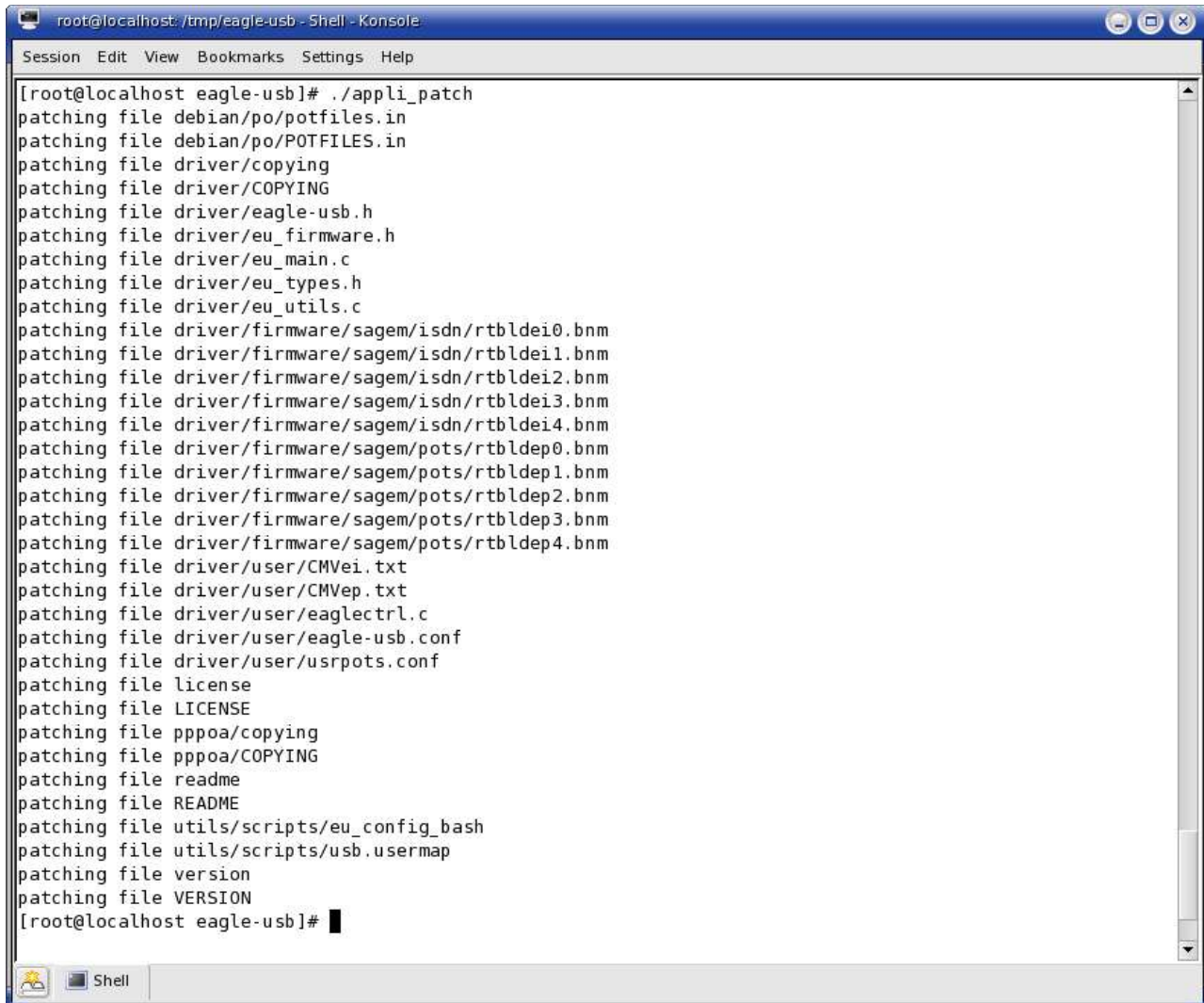
```
root@localhost: /tmp/eagle-usb - Shell - Konsole
Session Edit View Bookmarks Settings Help

[sagem@localhost sagem]$ su -
Password:
[root@localhost root]# cp /mnt/cdrom/linux/usb/Fast8x0_3-0-3.tgz /tmp/
[root@localhost root]# cd /tmp/
[root@localhost tmp]# tar xzf Fast8x0_3-0-3.tgz
[root@localhost tmp]# cd eagle-usb/
[root@localhost eagle-usb]# ll
total 4664
-rwxr-xr-x  1 root root      78 nov 22 12:49 appli_patch*
drwxr-xr-x  8 root root    4096 nov 19 14:39 eagle-usb-src/
-rw-r--r--  1 root root 4753425 nov 19 14:39 patch_sagem
[root@localhost eagle-usb]#
```

Figure 1

Stage 2 - Application of the patch_sagem patch

It's now necessary to apply the patch_sagem patch so that the driver eagle-usb can be used with the eagle III modem. Type the './appli_patch' order to carry out the update of the driver sources.

A screenshot of a terminal window titled 'root@localhost: /tmp/eagle-usb - Shell - Konsole'. The window has a menu bar with 'Session', 'Edit', 'View', 'Bookmarks', 'Settings', and 'Help'. The terminal output shows the execution of the './appli_patch' script, which applies patches to various files in the eagle-usb driver source tree. The files listed include debian/po/potfiles.in, debian/po/POTFILES.in, driver/copying, driver/COPYING, driver/eagle-usb.h, driver/eu_firmware.h, driver/eu_main.c, driver/eu_types.h, driver/eu_utils.c, driver/firmware/sagem/isdn/rblddei0.bnm through rblddei4.bnm, driver/firmware/sagem/pots/rblddep0.bnm through rblddep4.bnm, driver/user/CMVei.txt, driver/user/CMVep.txt, driver/user/eaglectrl.c, driver/user/eagle-usb.conf, driver/user/usrpots.conf, license, LICENSE, pppoa/copying, pppoa/COPYING, readme, README, utils/scripts/eu_config_bash, utils/scripts/usb.usermap, version, and VERSION. The terminal ends with the prompt '[root@localhost eagle-usb]#'.

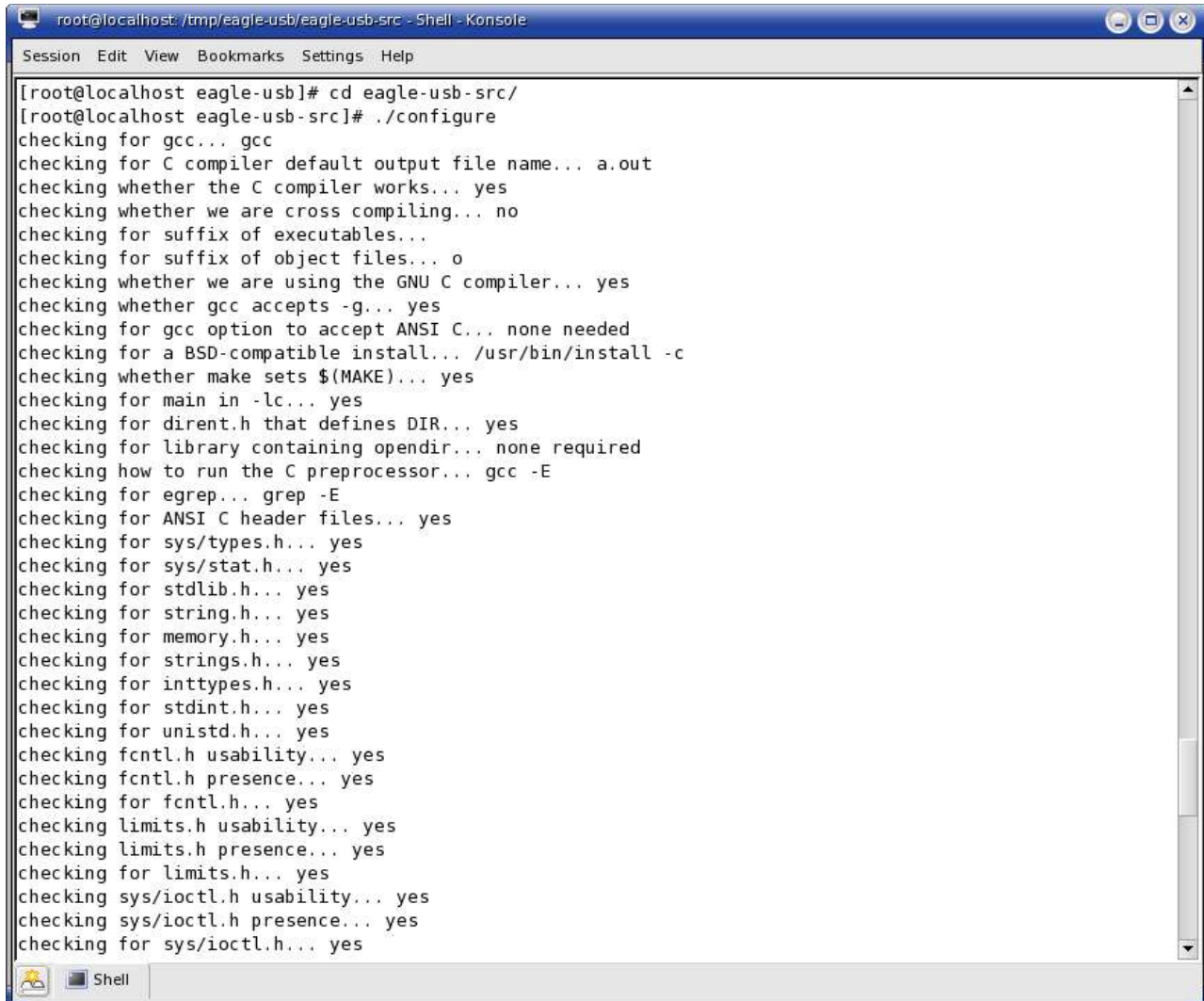
```
[root@localhost eagle-usb]# ./appli_patch
patching file debian/po/potfiles.in
patching file debian/po/POTFILES.in
patching file driver/copying
patching file driver/COPYING
patching file driver/eagle-usb.h
patching file driver/eu_firmware.h
patching file driver/eu_main.c
patching file driver/eu_types.h
patching file driver/eu_utils.c
patching file driver/firmware/sagem/isdn/rblddei0.bnm
patching file driver/firmware/sagem/isdn/rblddei1.bnm
patching file driver/firmware/sagem/isdn/rblddei2.bnm
patching file driver/firmware/sagem/isdn/rblddei3.bnm
patching file driver/firmware/sagem/isdn/rblddei4.bnm
patching file driver/firmware/sagem/pots/rblddep0.bnm
patching file driver/firmware/sagem/pots/rblddep1.bnm
patching file driver/firmware/sagem/pots/rblddep2.bnm
patching file driver/firmware/sagem/pots/rblddep3.bnm
patching file driver/firmware/sagem/pots/rblddep4.bnm
patching file driver/user/CMVei.txt
patching file driver/user/CMVep.txt
patching file driver/user/eaglectrl.c
patching file driver/user/eagle-usb.conf
patching file driver/user/usrpots.conf
patching file license
patching file LICENSE
patching file pppoa/copying
patching file pppoa/COPYING
patching file readme
patching file README
patching file utils/scripts/eu_config_bash
patching file utils/scripts/usb.usermap
patching file version
patching file VERSION
[root@localhost eagle-usb]#
```

Figure 2

Stage 3 - automatic configuration

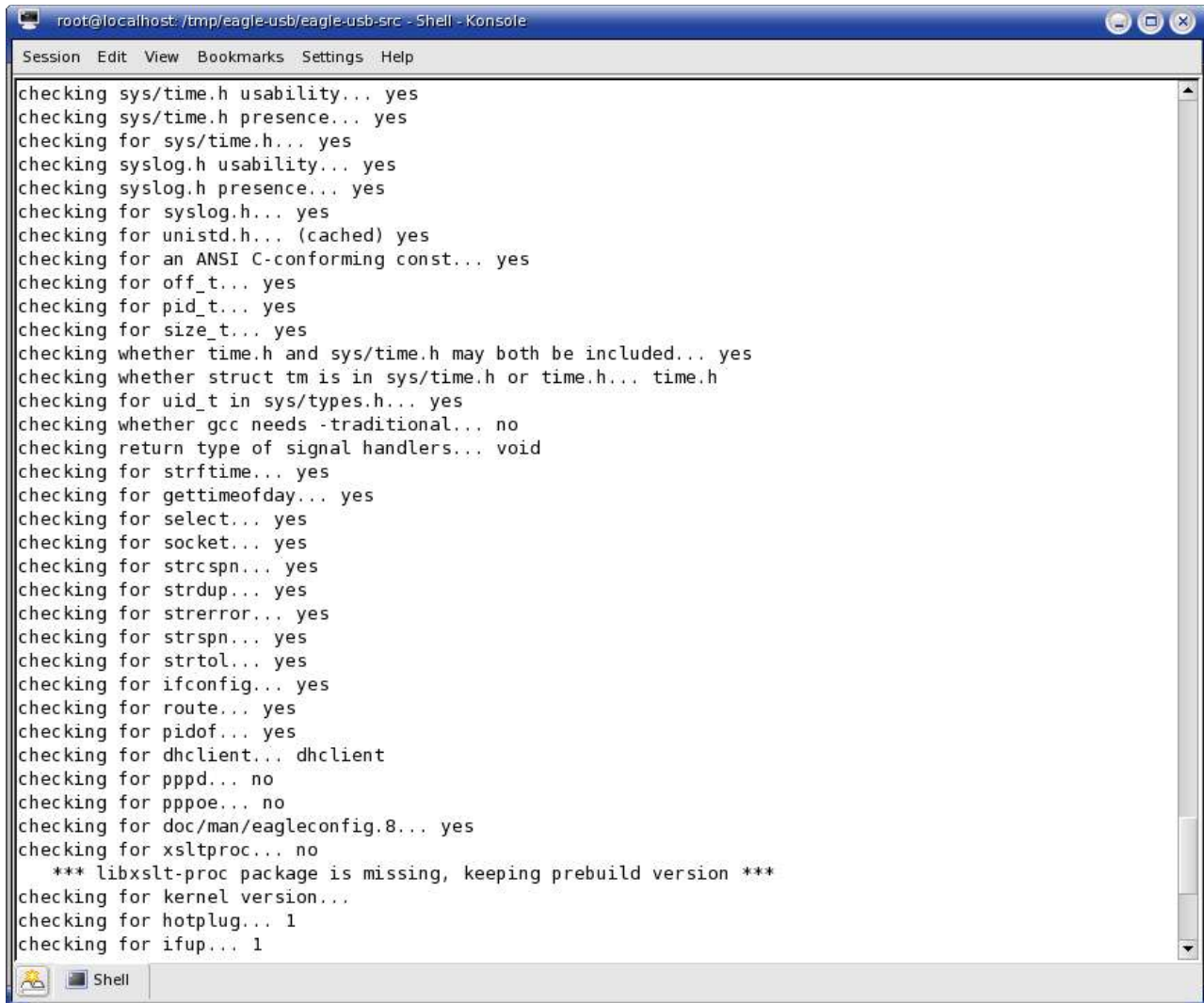
The configuration for the compilation of the driver is automatic, it indicates also the missing modules (ex:kernel sources) where not having the good version (ex:gcc).

To start the configuration place under the directory eagle-usb-src and type the order './configure'

A screenshot of a terminal window titled 'root@localhost: /tmp/eagle-usb/eagle-usb-src - Shell - Konsole'. The window has a menu bar with 'Session', 'Edit', 'View', 'Bookmarks', 'Settings', and 'Help'. The terminal shows the execution of the './configure' script. The prompt is '[root@localhost eagle-usb]# cd eagle-usb-src/' followed by '[root@localhost eagle-usb-src]# ./configure'. The script then performs a series of checks, each followed by a result: 'checking for gcc... gcc', 'checking for C compiler default output file name... a.out', 'checking whether the C compiler works... yes', 'checking whether we are cross compiling... no', 'checking for suffix of executables...', 'checking for suffix of object files... o', 'checking whether we are using the GNU C compiler... yes', 'checking whether gcc accepts -g... yes', 'checking for gcc option to accept ANSI C... none needed', 'checking for a BSD-compatible install... /usr/bin/install -c', 'checking whether make sets \$(MAKE)... yes', 'checking for main in -lc... yes', 'checking for dirent.h that defines DIR... yes', 'checking for library containing opendir... none required', 'checking how to run the C preprocessor... gcc -E', 'checking for egrep... grep -E', 'checking for ANSI C header files... yes', 'checking for sys/types.h... yes', 'checking for sys/stat.h... yes', 'checking for stdlib.h... yes', 'checking for string.h... yes', 'checking for memory.h... yes', 'checking for strings.h... yes', 'checking for inttypes.h... yes', 'checking for stdint.h... yes', 'checking for unistd.h... yes', 'checking fcntl.h usability... yes', 'checking fcntl.h presence... yes', 'checking for fcntl.h... yes', 'checking limits.h usability... yes', 'checking limits.h presence... yes', 'checking for limits.h... yes', 'checking sys/ioctl.h usability... yes', 'checking sys/ioctl.h presence... yes', and 'checking for sys/ioctl.h... yes'. The terminal window has a status bar at the bottom with a 'Shell' icon and label.

```
root@localhost eagle-usb]# cd eagle-usb-src/
[root@localhost eagle-usb-src]# ./configure
checking for gcc... gcc
checking for C compiler default output file name... a.out
checking whether the C compiler works... yes
checking whether we are cross compiling... no
checking for suffix of executables...
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
checking for gcc option to accept ANSI C... none needed
checking for a BSD-compatible install... /usr/bin/install -c
checking whether make sets $(MAKE)... yes
checking for main in -lc... yes
checking for dirent.h that defines DIR... yes
checking for library containing opendir... none required
checking how to run the C preprocessor... gcc -E
checking for egrep... grep -E
checking for ANSI C header files... yes
checking for sys/types.h... yes
checking for sys/stat.h... yes
checking for stdlib.h... yes
checking for string.h... yes
checking for memory.h... yes
checking for strings.h... yes
checking for inttypes.h... yes
checking for stdint.h... yes
checking for unistd.h... yes
checking fcntl.h usability... yes
checking fcntl.h presence... yes
checking for fcntl.h... yes
checking limits.h usability... yes
checking limits.h presence... yes
checking for limits.h... yes
checking sys/ioctl.h usability... yes
checking sys/ioctl.h presence... yes
checking for sys/ioctl.h... yes
```

Figure 3



```
root@localhost: /tmp/eagle-usb/eagle-usb-src - Shell - Konsole
Session Edit View Bookmarks Settings Help

checking sys/time.h usability... yes
checking sys/time.h presence... yes
checking for sys/time.h... yes
checking syslog.h usability... yes
checking syslog.h presence... yes
checking for syslog.h... yes
checking for unistd.h... (cached) yes
checking for an ANSI C-conforming const... yes
checking for off_t... yes
checking for pid_t... yes
checking for size_t... yes
checking whether time.h and sys/time.h may both be included... yes
checking whether struct tm is in sys/time.h or time.h... time.h
checking for uid_t in sys/types.h... yes
checking whether gcc needs -traditional... no
checking return type of signal handlers... void
checking for strftime... yes
checking for gettimeofday... yes
checking for select... yes
checking for socket... yes
checking for strcspn... yes
checking for strdup... yes
checking for strerror... yes
checking for strspn... yes
checking for strtol... yes
checking for ifconfig... yes
checking for route... yes
checking for pidof... yes
checking for dhclient... dhclient
checking for pppd... no
checking for pppoe... no
checking for doc/man/eagleconfig.8... yes
checking for xsltproc... no
*** libxslt-proc package is missing, keeping prebuild version ***
checking for kernel version...
checking for hotplug... 1
checking for ifup... 1
```

Figure 4

```
root@localhost: /tmp/eagle-usb/eagle-usb-src - Shell - Konsole
Session Edit View Bookmarks Settings Help

checking for strdup... yes
checking for strerror... yes
checking for strspn... yes
checking for strtol... yes
checking for ifconfig... yes
checking for route... yes
checking for pidof... yes
checking for dhclient... dhclient
checking for pppd... no
checking for pppoe... no
checking for doc/man/eagleconfig.8... yes
checking for xsltproc... no
*** libxslt-proc package is missing, keeping prebuild version ***
checking for kernel version...
checking for hotplug... 1
checking for ifup... 1
checking for adictrl... no
checking for eaglectrl... no
checking for showstat... no
checking for eaglestat... no
checking for startadsl... no
checking for stopadsl... no
configure: creating ./config.status
config.status: creating Makefile.common

=====
distribution detected                                Mandrake
dhcp support                                           dhclient
pppd support                                           no (runtime detection)
install eagleconnect (tcl/tk frontend)               yes
generate documentation                                no
=====

[root@localhost eagle-usb-src]#
```

Figure 5

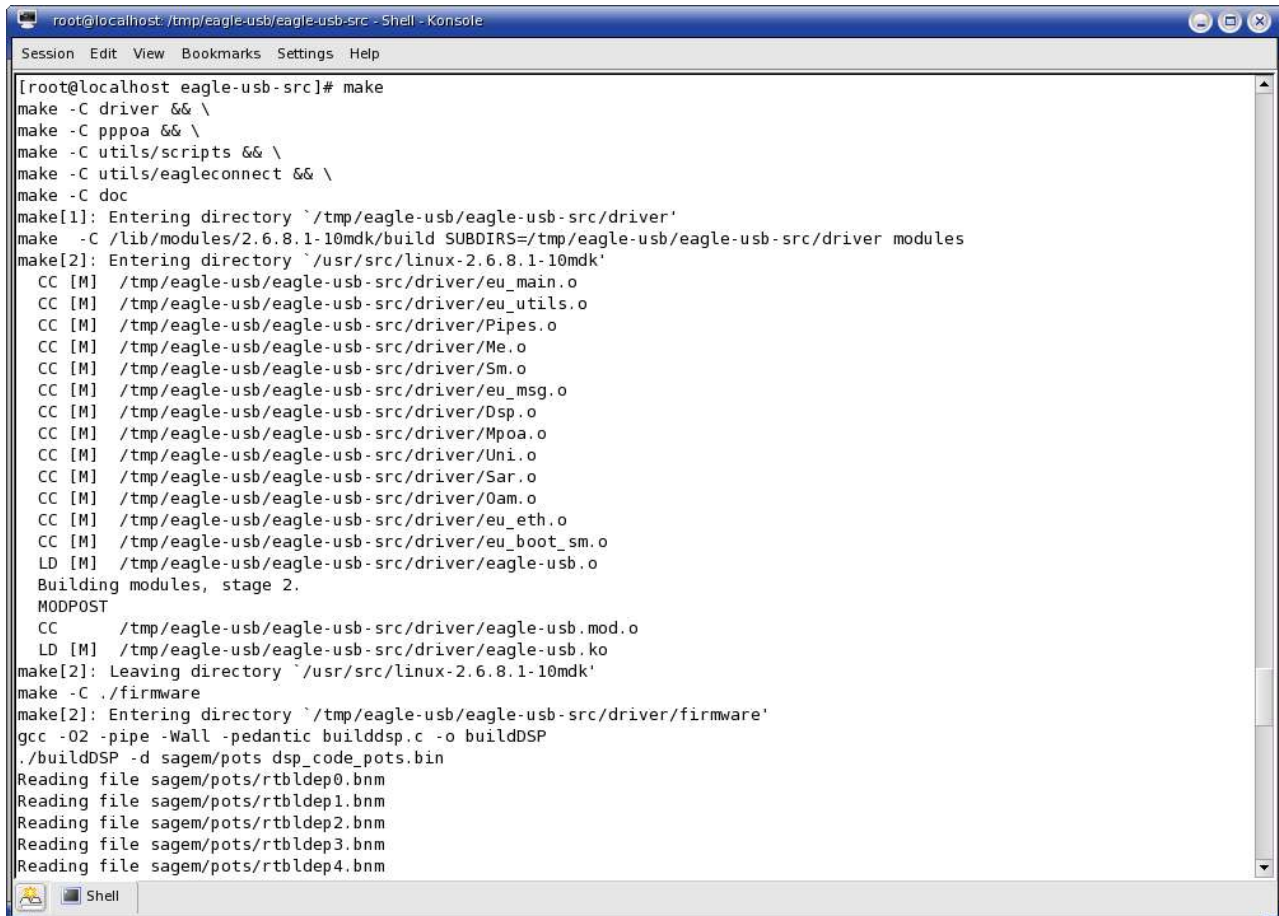
Stage 4 - existing package on the system

If your system has an installation of the package eagle-usb, the checking of eaglectrl, eaglestat, startadsl, stopadsl indicates ' yes ', then you must carry out a cleaning of the system via the order make uninstall, to see the section relating to Uninstallation.

On figure 5, the checking indicates ' no', it thus does not have there a package eagle-usb installed in this example.

Stage 5 - make

it is necessary to launch the compilation of the driver by typing the order 'make'.



```
root@localhost: /tmp/eagle-usb/eagle-usb-src - Shell - Konsole
Session Edit View Bookmarks Settings Help

[root@localhost eagle-usb-src]# make
make -C driver && \
make -C pppoa && \
make -C utils/scripts && \
make -C utils/eagleconnect && \
make -C doc
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/driver'
make -C /lib/modules/2.6.8.1-10mdk/build SUBDIRS=/tmp/eagle-usb/eagle-usb-src/driver modules
make[2]: Entering directory `/usr/src/linux-2.6.8.1-10mdk'
CC [M] /tmp/eagle-usb/eagle-usb-src/driver/eu_main.o
CC [M] /tmp/eagle-usb/eagle-usb-src/driver/eu_utils.o
CC [M] /tmp/eagle-usb/eagle-usb-src/driver/Pipes.o
CC [M] /tmp/eagle-usb/eagle-usb-src/driver/Me.o
CC [M] /tmp/eagle-usb/eagle-usb-src/driver/Sm.o
CC [M] /tmp/eagle-usb/eagle-usb-src/driver/eu_msg.o
CC [M] /tmp/eagle-usb/eagle-usb-src/driver/Dsp.o
CC [M] /tmp/eagle-usb/eagle-usb-src/driver/Mpoa.o
CC [M] /tmp/eagle-usb/eagle-usb-src/driver/Uni.o
CC [M] /tmp/eagle-usb/eagle-usb-src/driver/Sar.o
CC [M] /tmp/eagle-usb/eagle-usb-src/driver/Oam.o
CC [M] /tmp/eagle-usb/eagle-usb-src/driver/eu_eth.o
CC [M] /tmp/eagle-usb/eagle-usb-src/driver/eu_boot_sm.o
LD [M] /tmp/eagle-usb/eagle-usb-src/driver/eagle-usb.o
Building modules, stage 2.
MODPOST
CC /tmp/eagle-usb/eagle-usb-src/driver/eagle-usb.mod.o
LD [M] /tmp/eagle-usb/eagle-usb-src/driver/eagle-usb.ko
make[2]: Leaving directory `/usr/src/linux-2.6.8.1-10mdk'
make -C ./firmware
make[2]: Entering directory `/tmp/eagle-usb/eagle-usb-src/driver/firmware'
gcc -O2 -pipe -Wall -pedantic builddsp.c -o buildDSP
./buildDSP -d sagem/pots dsp_code_pots.bin
Reading file sagem/pots/rtbldep0.bnm
Reading file sagem/pots/rtbldep1.bnm
Reading file sagem/pots/rtbldep2.bnm
Reading file sagem/pots/rtbldep3.bnm
Reading file sagem/pots/rtbldep4.bnm
```

Figure 6


```
root@localhost: /tmp/eagle-usb/eagle-usb-src - Shell - Konsole
Session Edit View Bookmarks Settings Help
Writing file dsp_code_pots.bin
./buildDSP -d sagem/isdn dsp_code_isdn.bin
Reading file sagem/isdn/rtbldei0.bnm
Reading file sagem/isdn/rtbldei1.bnm
Reading file sagem/isdn/rtbldei2.bnm
Reading file sagem/isdn/rtbldei3.bnm
Reading file sagem/isdn/rtbldei4.bnm
Writing file dsp_code_isdn.bin
make[2]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/driver/firmware'
make -C ./user
make[2]: Entering directory `/tmp/eagle-usb/eagle-usb-src/driver/user'
gcc -O2 -pipe -Wall -pedantic -DLINUX -g -DCONF_DIR="/etc/eagle-usb/" -DBIN_DIR="/etc/eagle-usb/dsp/" -DEAGLEUSBVERSION="1.9.9" eaglectrl.c -o eaglectrl
make[2]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/driver/user'
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/driver'
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/ppp'
gcc -O2 -Wall -Wstrict-prototypes -ansi -pedantic -DVERSION="1.9.9" -c -o pppoa.o pppoa.c
gcc -O2 -Wall -Wstrict-prototypes -ansi -pedantic -DVERSION="1.9.9" -c -o if.o if.c
gcc -O2 -Wall -Wstrict-prototypes -ansi -pedantic -DVERSION="1.9.9" -c -o debug.o debug.c
gcc -O2 -Wall -Wstrict-prototypes -ansi -pedantic -DVERSION="1.9.9" -c -o common.o common.c
gcc -O2 -Wall -Wstrict-prototypes -ansi -pedantic -DVERSION="1.9.9" -c -o ppp.o ppp.c
gcc -o pppoa pppoa.o if.o debug.o common.o ppp.o
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/ppp'
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/Utils/scripts'
rm -Rf tmp
mkdir -p tmp
cat setvars | sed \
-e "s|@SBIN_DIR@|usr/sbin|g" \
-e "s|@EU_DIR@|etc/eagle-usb|g" \
-e "s|@EU_LANG_DIR@|etc/eagle-usb/lang|g" \
-e "s|@EU_SCRIPT_DIR@|etc/eagle-usb/scripts|g" \
-e "s|@USE_HOTPLUG@|1|g" \
-e "s|@USE_IFUPDOWN@|1|g" \
-e "s|@DISTRIB@|Mandrake|g" \
-e "s|@DISTVER@|10.1|g" \
-e "s|@SIMPLE@|0|g" \
-e "s|@INIT_DIR@|etc/init.d|g" \
```

Figure 7

```
root@localhost: /tmp/eagle-usb/eagle-usb-src - Shell - Konsole
Session Edit View Bookmarks Settings Help

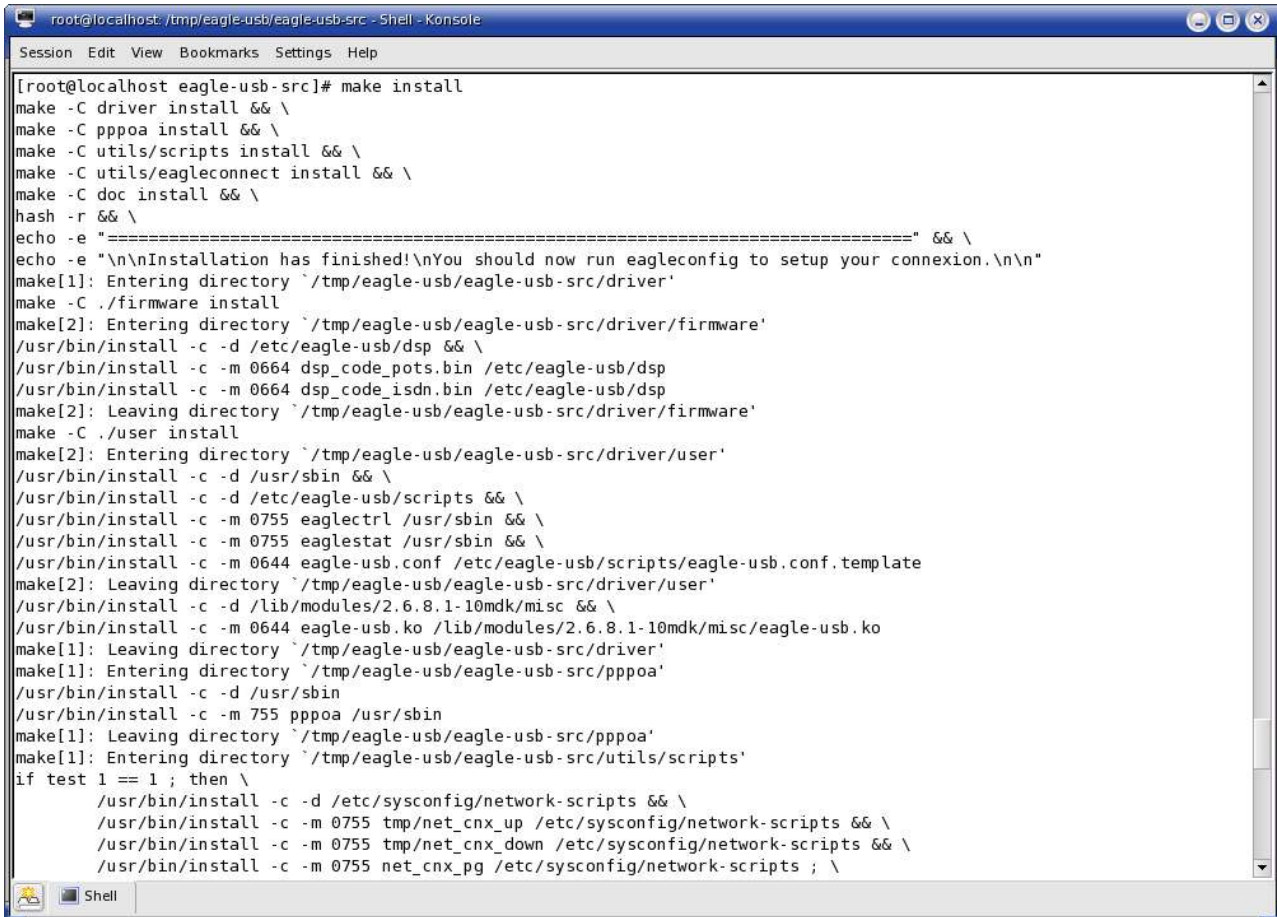
sed -e "s|exit 123|. /etc/eagle-usb/scripts/setvars|" -e "s| 1 == 1 | 0 == 1 |" fctStopAdsl > tmp/fctStopAdsl && \
sed "s|exit 123|. /etc/eagle-usb/scripts/setvars|g" fctStartAdsl > tmp/fctStartAdsl && \
sed "s|exit 123|. /etc/eagle-usb/scripts/setvars|g" startmire > tmp/startmire && \
sed "s|exit 123|. /etc/eagle-usb/scripts/setvars|g" startadsl > tmp/startadsl && \
sed "s|exit 123|. /etc/eagle-usb/scripts/setvars|g" stopadsl > tmp/stopadsl && \
sed "s|exit 123|. /etc/eagle-usb/scripts/setvars|g" eagleconfig > tmp/eagleconfig && \
sed "s|exit 123|. /etc/eagle-usb/scripts/setvars|g" eaglediag > tmp/eaglediag && \
sed "s|exit 123|. /etc/eagle-usb/scripts/setvars|g" eu_config_bash > tmp/eu_config_bash && \
sed "s|exit 123|. /etc/eagle-usb/scripts/setvars|g" eu_dsp > tmp/eu_dsp && \
sed "s|exit 123|. /etc/eagle-usb/scripts/setvars|g" eu_init > tmp/eu_init && \
sed "s|exit 123|. /etc/eagle-usb/scripts/setvars|g" rc.eagle-usb > tmp/rc.eagle-usb && \
sed "s|exit 123|. /etc/eagle-usb/scripts/setvars|g" net_cnx_up > tmp/net_cnx_up && \
sed "s|exit 123|. /etc/eagle-usb/scripts/setvars|g" net_cnx_down > tmp/net_cnx_down && \
sed "s|exit 123|. /etc/eagle-usb/scripts/setvars|g" testconnec > tmp/testconnec
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/utils/scripts'
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/utils/eagleconnect'
rm -Rf tmp
if test 1 == 1 ; then \
    mkdir -p tmp ; \
    cat diagnostic.tcl | sed \
        -e "s|@SBIN_DIR@|usr/sbin|g" \
        -e "s|@EU_EAGLECONNECT_DIR@|etc/eagle-usb/eagleconnect|g" \
        > tmp/diagnostic.tcl ; \
    cat eagleconnect.tcl | sed \
        -e "s|@SBIN_DIR@|usr/sbin|g" \
        -e "s|@EU_EAGLECONNECT_DIR@|etc/eagle-usb/eagleconnect|g" \
        > tmp/eagleconnect.tcl ; \
    cat reseau.tcl | sed \
        -e "s|@SBIN_DIR@|usr/sbin|g" \
        -e "s|@EU_EAGLECONNECT_DIR@|etc/eagle-usb/eagleconnect|g" \
        > tmp/reseau.tcl ; \
fi
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/utils/eagleconnect'
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/doc'
make[1]: Rien à faire pour « all ».
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/doc'
[root@localhost eagle-usb-src]#
```

Figure 8

Stage 6 - make install

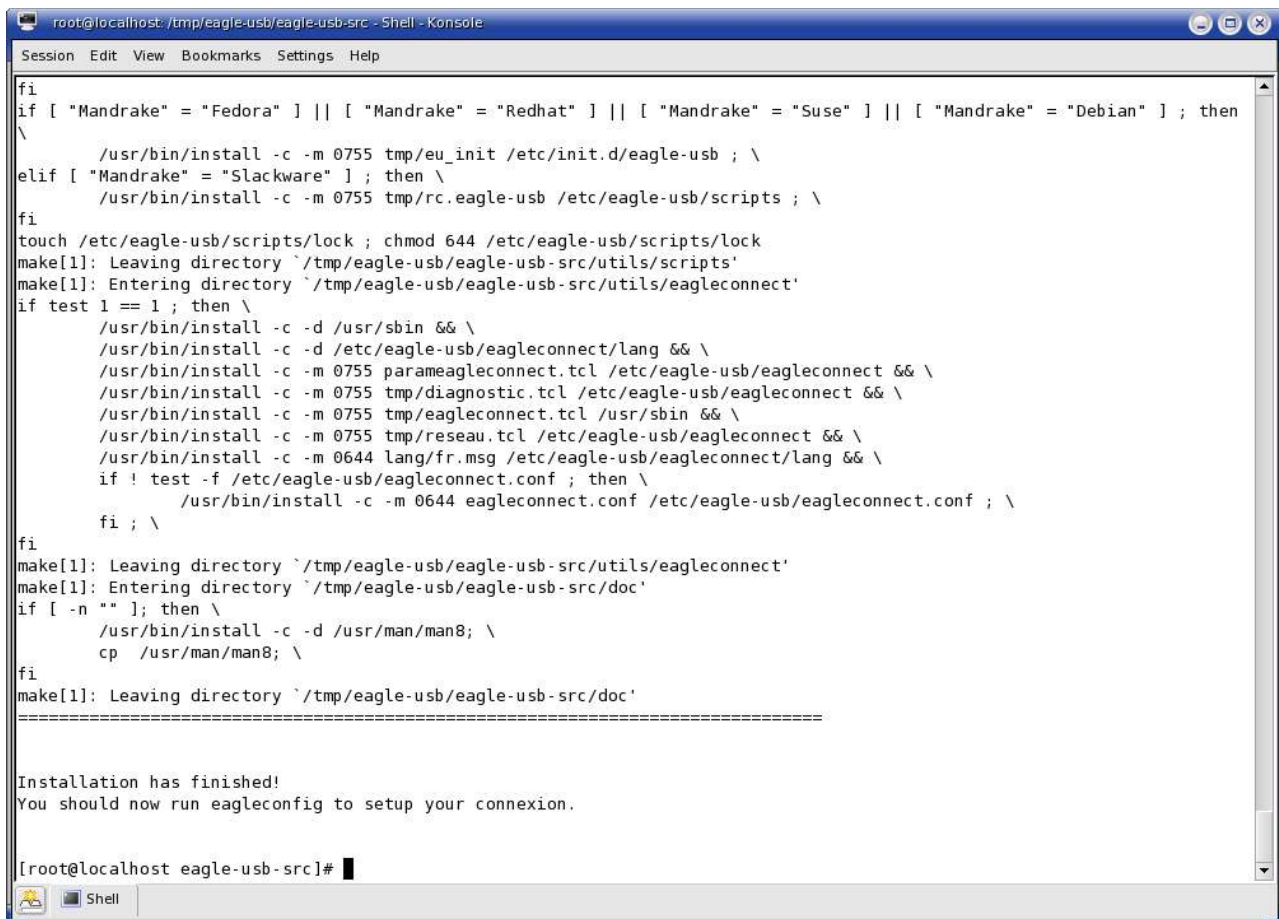
Connect your USB modem and connect ADSL line.

The installation of the driver and its utilities is carried out by typing the order 'make install'.



```
root@localhost eagle-usb-src]# make install
make -C driver install && \
make -C pppoa install && \
make -C utils/scripts install && \
make -C utils/eagleconnect install && \
make -C doc install && \
hash -r && \
echo -e "===== " && \
echo -e "\n\nInstallation has finished!\nYou should now run eagleconfig to setup your connexion.\n\n"
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/driver'
make -C ./firmware install
make[2]: Entering directory `/tmp/eagle-usb/eagle-usb-src/driver/firmware'
/usr/bin/install -c -d /etc/eagle-usb/dsp && \
/usr/bin/install -c -m 0664 dsp_code_pots.bin /etc/eagle-usb/dsp
/usr/bin/install -c -m 0664 dsp_code_isdn.bin /etc/eagle-usb/dsp
make[2]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/driver/firmware'
make -C ./user install
make[2]: Entering directory `/tmp/eagle-usb/eagle-usb-src/driver/user'
/usr/bin/install -c -d /usr/sbin && \
/usr/bin/install -c -d /etc/eagle-usb/scripts && \
/usr/bin/install -c -m 0755 eaglectrl /usr/sbin && \
/usr/bin/install -c -m 0755 eaglestat /usr/sbin && \
/usr/bin/install -c -m 0644 eagle-usb.conf /etc/eagle-usb/scripts/eagle-usb.conf.template
make[2]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/driver/user'
/usr/bin/install -c -d /lib/modules/2.6.8.1-10mdk/misc && \
/usr/bin/install -c -m 0644 eagle-usb.ko /lib/modules/2.6.8.1-10mdk/misc/eagle-usb.ko
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/driver'
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/pppoa'
/usr/bin/install -c -d /usr/sbin
/usr/bin/install -c -m 755 pppoa /usr/sbin
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/pppoa'
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/utils/scripts'
if test 1 == 1 ; then \
    /usr/bin/install -c -d /etc/sysconfig/network-scripts && \
    /usr/bin/install -c -m 0755 tmp/net_cnx_up /etc/sysconfig/network-scripts && \
    /usr/bin/install -c -m 0755 tmp/net_cnx_down /etc/sysconfig/network-scripts && \
    /usr/bin/install -c -m 0755 net_cnx_pg /etc/sysconfig/network-scripts ; \
```

Figure 9



```
root@localhost: /tmp/eagle-usb/eagle-usb-src - Shell - Konsole
Session Edit View Bookmarks Settings Help

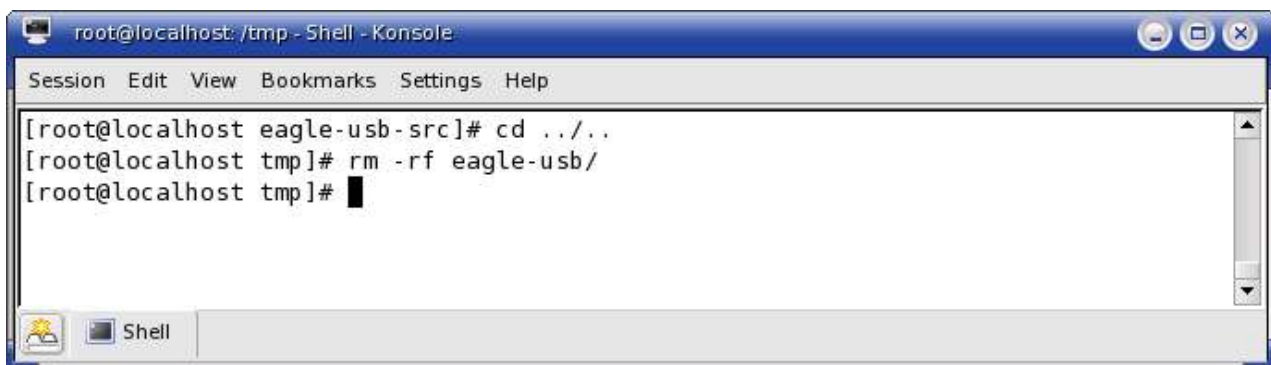
fi
if [ "Mandrake" = "Fedora" ] || [ "Mandrake" = "Redhat" ] || [ "Mandrake" = "Suse" ] || [ "Mandrake" = "Debian" ] ; then \
    /usr/bin/install -c -m 0755 tmp/eu_init /etc/init.d/eagle-usb ; \
elif [ "Mandrake" = "Slackware" ] ; then \
    /usr/bin/install -c -m 0755 tmp/rc.eagle-usb /etc/eagle-usb/scripts ; \
fi
touch /etc/eagle-usb/scripts/lock ; chmod 644 /etc/eagle-usb/scripts/lock
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/utils/scripts'
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/utils/eagleconnect'
if test 1 == 1 ; then \
    /usr/bin/install -c -d /usr/sbin && \
    /usr/bin/install -c -d /etc/eagle-usb/eagleconnect/lang && \
    /usr/bin/install -c -m 0755 parameagleconnect.tcl /etc/eagle-usb/eagleconnect && \
    /usr/bin/install -c -m 0755 tmp/diagnostic.tcl /etc/eagle-usb/eagleconnect && \
    /usr/bin/install -c -m 0755 tmp/eagleconnect.tcl /usr/sbin && \
    /usr/bin/install -c -m 0755 tmp/reseau.tcl /etc/eagle-usb/eagleconnect && \
    /usr/bin/install -c -m 0644 lang/fr.msg /etc/eagle-usb/eagleconnect/lang && \
    if ! test -f /etc/eagle-usb/eagleconnect.conf ; then \
        /usr/bin/install -c -m 0644 eagleconnect.conf /etc/eagle-usb/eagleconnect.conf ; \
    fi ; \
fi
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/utils/eagleconnect'
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/doc'
if [ -n "" ] ; then \
    /usr/bin/install -c -d /usr/man/man8 ; \
    cp /usr/man/man8 ; \
fi
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/doc'
=====

Installation has finished!
You should now run eagleconfig to setup your connexion.

[root@localhost eagle-usb-src]#
```

Figure 10

You can remove the directory eagle-usb.



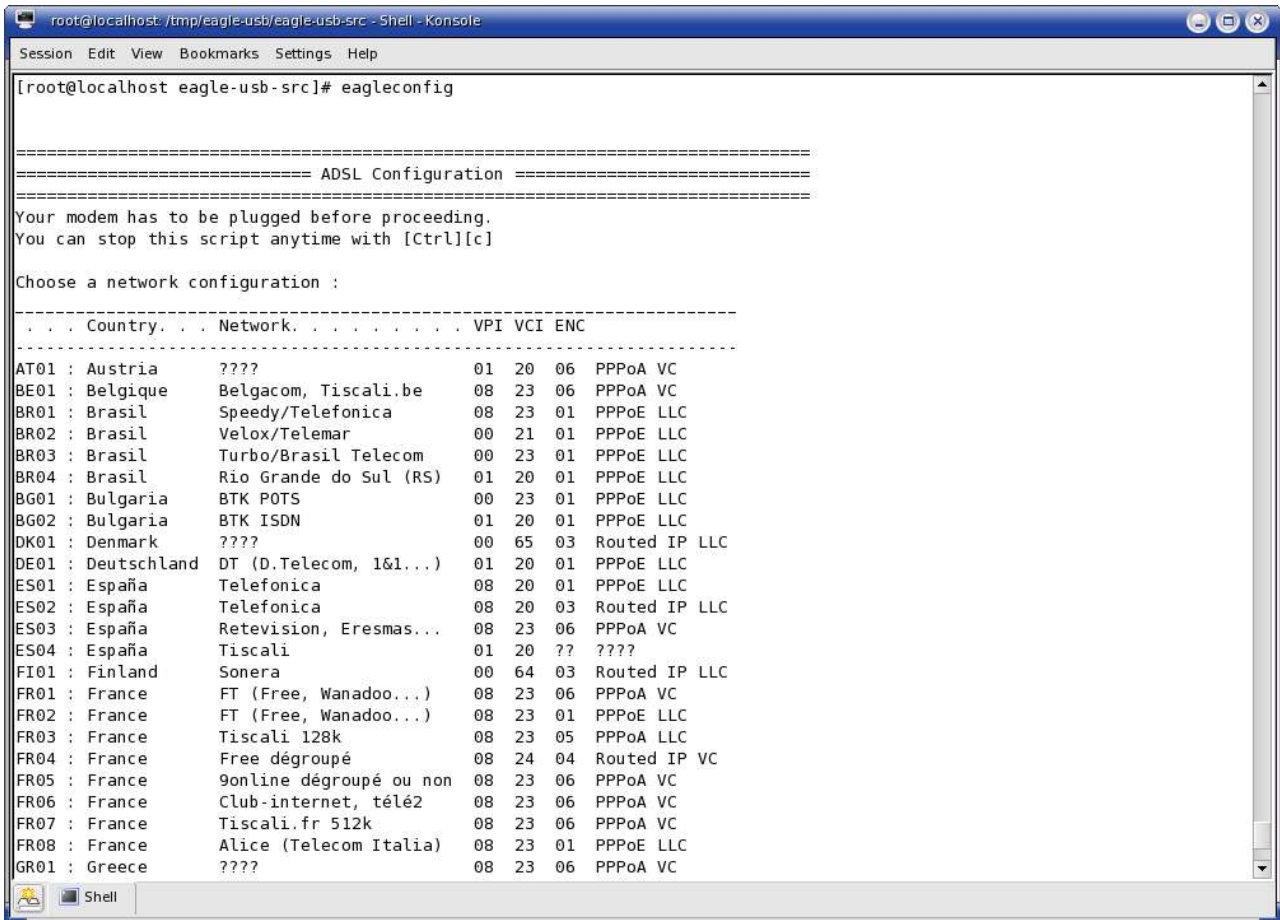
```
root@localhost: /tmp - Shell - Konsole
Session Edit View Bookmarks Settings Help

[root@localhost eagle-usb-src]# cd ../../
[root@localhost tmp]# rm -rf eagle-usb/
[root@localhost tmp]#
```

Figure 11

Stage 7 - eagleconfig

Type the order 'eagleconfig' to configure your modem with the parameters of your ADSL line.



```
root@localhost: /tmp/eagle-usb/eagle-usb-src - Shell - Konsole
Session Edit View Bookmarks Settings Help

[root@localhost eagle-usb-src]# eagleconfig

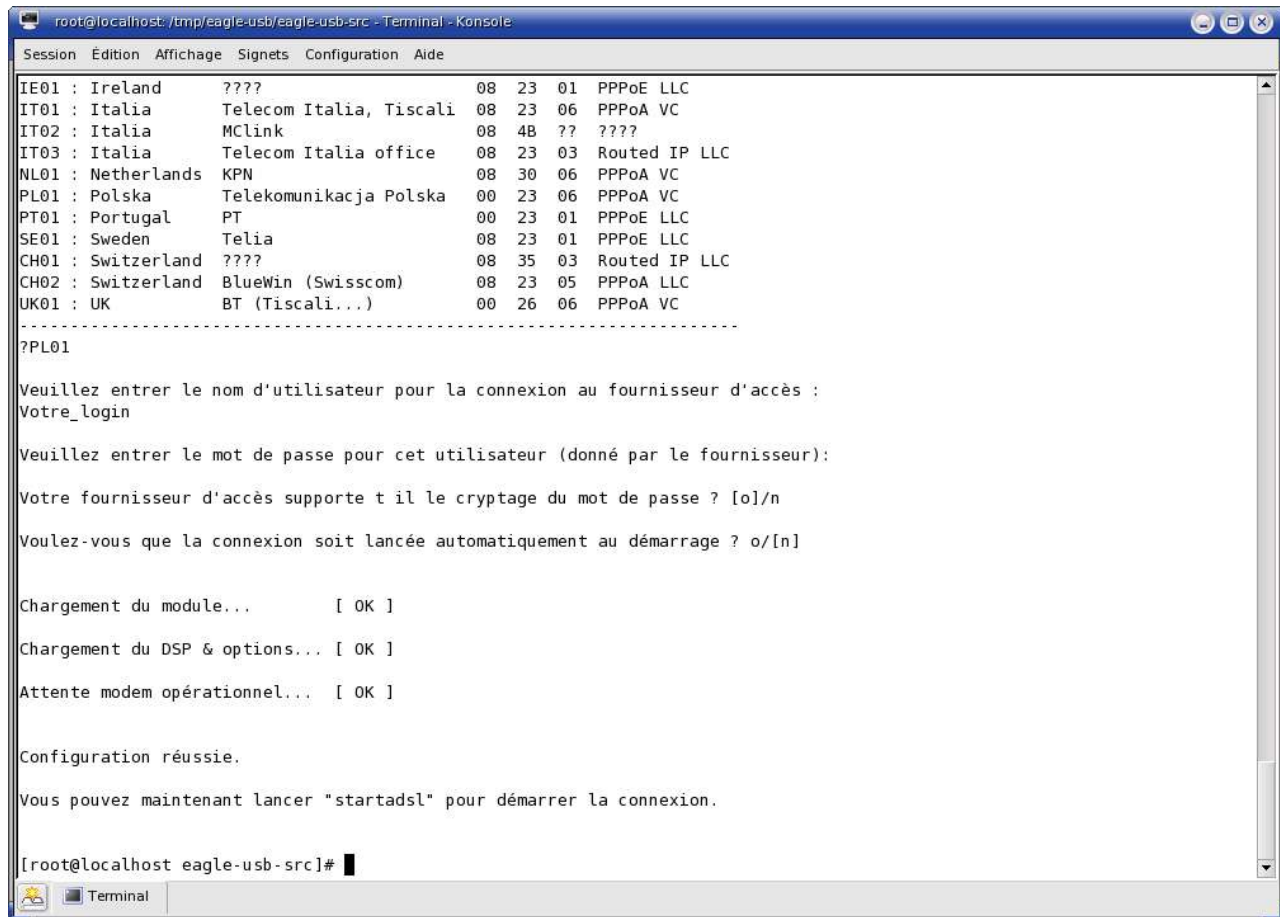
=====
===== ADSL Configuration =====
=====
Your modem has to be plugged before proceeding.
You can stop this script anytime with [Ctrl][c]

Choose a network configuration :

-----
. . . Country. . . Network. . . . . VPI VCI ENC
-----
AT01 : Austria      ????                01 20 06 PPPoA VC
BE01 : Belgique    Belgacom, Tiscali.be  08 23 06 PPPoA VC
BR01 : Brasil      Speedy/Telefonica     08 23 01 PPPoE LLC
BR02 : Brasil      Velox/Telemar         00 21 01 PPPoE LLC
BR03 : Brasil      Turbo/Brasil Telecom  00 23 01 PPPoE LLC
BR04 : Brasil      Rio Grande do Sul (RS) 01 20 01 PPPoE LLC
BG01 : Bulgaria    BTK POTS             00 23 01 PPPoE LLC
BG02 : Bulgaria    BTK ISDN             01 20 01 PPPoE LLC
DK01 : Denmark     ????                00 65 03 Routed IP LLC
DE01 : Deutschland DT (D.Telecom, 1&1...) 01 20 01 PPPoE LLC
ES01 : España      Telefonica           08 20 01 PPPoE LLC
ES02 : España      Telefonica           08 20 03 Routed IP LLC
ES03 : España      Retevision, Eresmas... 08 23 06 PPPoA VC
ES04 : España      Tiscali              01 20 ?? ????
FI01 : Finland     Sonera               00 64 03 Routed IP LLC
FR01 : France      FT (Free, Wanadoo...) 08 23 06 PPPoA VC
FR02 : France      FT (Free, Wanadoo...) 08 23 01 PPPoE LLC
FR03 : France      Tiscali 128k         08 23 05 PPPoA LLC
FR04 : France      Free dégroupé        08 24 04 Routed IP VC
FR05 : France      9online dégroupé ou non 08 23 06 PPPoA VC
FR06 : France      Club-internet, télé2  08 23 06 PPPoA VC
FR07 : France      Tiscali.fr 512k       08 23 06 PPPoA VC
FR08 : France      Alice (Telecom Italia) 08 23 01 PPPoE LLC
GR01 : Greece      ????                08 23 06 PPPoA VC
```

Figure 12

Eagleconfig proposes a list of the ISP with their Vpi, Vci encapsulation parameters



```
root@localhost: /tmp/eagle-usb/eagle-usb-src - Terminal - Konsole
Session  Edition  Affichage  Signets  Configuration  Aide
IE01 : Ireland      ????      08 23 01 PPPoE LLC
IT01 : Italia       Telecom Italia, Tiscali 08 23 06 PPPoA VC
IT02 : Italia       MClink    08 48 ??  ???
IT03 : Italia       Telecom Italia office 08 23 03 Routed IP LLC
NL01 : Netherlands KPN       08 30 06 PPPoA VC
PL01 : Polska       Telekomunikacja Polska 00 23 06 PPPoA VC
PT01 : Portugal     PT        00 23 01 PPPoE LLC
SE01 : Sweden       Telia     08 23 01 PPPoE LLC
CH01 : Switzerland ???       08 35 03 Routed IP LLC
CH02 : Switzerland BlueWin (Swisscom) 08 23 05 PPPoA LLC
UK01 : UK           BT (Tiscali...) 00 26 06 PPPoA VC
-----
?PL01

Veuillez entrer le nom d'utilisateur pour la connexion au fournisseur d'accès :
Votre_login

Veuillez entrer le mot de passe pour cet utilisateur (donné par le fournisseur):
Votre fournisseur d'accès supporte t il le cryptage du mot de passe ? [o]/n

Voulez-vous que la connexion soit lancée automatiquement au démarrage ? o/[n]

Chargement du module...      [ OK ]
Chargement du DSP & options... [ OK ]
Attente modem opérationnel... [ OK ]

Configuration réussie.

Vous pouvez maintenant lancer "startadsl" pour démarrer la connexion.

[root@localhost eagle-usb-src]#
```

Figure 13

Select your ISP, in figure 14 one selects Polish Telekomunikacja Polska, type your username and your password, indicate if the password can be encrypted before its sends to the supplier, connection can be carried out with starting what avoids placing in root to launch 'startadsl'.

Launch ADSL connection with the order 'startadsl', connection is active, you can use your navigator preferred to connect you to Internet.



```
root@localhost: /root - Shell - Konsole
Session  Edit  View  Bookmarks  Settings  Help
[root@localhost eagle-usb-src]# cd
[root@localhost root]# startadsl
[root@localhost root]#
```

Figure 14

Uninstall

Step 1 - make uninstall

If you want uninstall the package whereas you removed the directory of eagle-usb installation, you must follow the stages 1, 2 and 3 of the installation part to be able to carry out a clean and automatic uninstall package eagle-usb.

Stop Internet connection with stopads1 command.
To launch the uninstall use the order 'make uninstall'

```

root@localhost: /tmp/eagle-usb/eagle-usb-src - Shell - Konsole
Session Edit View Bookmarks Settings Help

[root@localhost /]# cd /tmp/eagle-usb/eagle-usb-src/
[root@localhost eagle-usb-src]# stopadsl
[root@localhost eagle-usb-src]# make uninstall
make -C doc uninstall && \
make -C utils/scripts uninstall && \
make -C utils/eagleconnect uninstall && \
make -C pppoa uninstall && \
make -C driver uninstall && \
hash -r && \
echo -e "===== " && \
echo -e "\n\nUninstall has finished." && \
if test 1 == 1 ; then \
    echo -e "\n\n *****\n" "* You should now unplug an
d replug your modem to clear its memory. *\n" " *****\n\n"
; \
else \
    echo ; \
fi
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/doc'
rm -f
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/doc'
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/utils/scripts'
./fctStopAdsl -sf
# disable [and remove] autostart service
if test -e /etc/init.d/eagle-usb ; then \
    chkconfig --del eagle-usb &>/dev/null ; \
    update-rc.d -f eagle-usb remove &>/dev/null ; \
    rm -f /etc/init.d/eagle-usb ; \
fi
if test -e /etc/init.d/internet ; then \
    chkconfig --del internet &>/dev/null ; \
fi
# remove old eagle-usb files (previous versions)
./uninstOld /lib/modules/2.6.8.1-10mdk /lib/modules/2.6.8.1-10mdk/build Mandrake 10.1 1 && \
rm -f /usr/sbin/fctStartAdsl && \
rm -f /usr/sbin/fctStopAdsl && \
rm -f /usr/sbin/startmire && \

```

Figure 15


```
root@localhost: /tmp/eagle-usb/eagle-usb-src - Shell - Konsole
Session Edit View Bookmarks Settings Help

depmod -a
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/Utils/scripts'
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/Utils/eagleconnect'
rm -Rf /etc/eagle-usb/eagleconnect
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/Utils/eagleconnect'
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/pppoe'
rm -f /usr/sbin/pppoe
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/pppoe'
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/driver'
make -C ./firmware uninstall && \
make -C ./user uninstall && \
rm -f /lib/modules/2.6.8.1-10mdk/misc/eagle-usb.ko
make[2]: Entering directory `/tmp/eagle-usb/eagle-usb-src/driver/firmware'
rm -f /etc/eagle-usb/dsp/dsp_code_pots.bin /etc/eagle-usb/dsp/dsp_code_isdn.bin
# there may be better solution to do this :-/
if test -d /etc/eagle-usb/dsp && test -z "`ls /etc/eagle-usb/dsp`" ; then \
    rm -Rf /etc/eagle-usb/dsp ; \
fi
make[2]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/driver/firmware'
make[2]: Entering directory `/tmp/eagle-usb/eagle-usb-src/driver/user'
rm -f /usr/sbin/eaglectrl
rm -f /usr/sbin/eaglestat
rm -f /etc/eagle-usb/scripts/eagle-usb.conf.template
make[2]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/driver/user'
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/driver'

=====

Uninstall has finished.

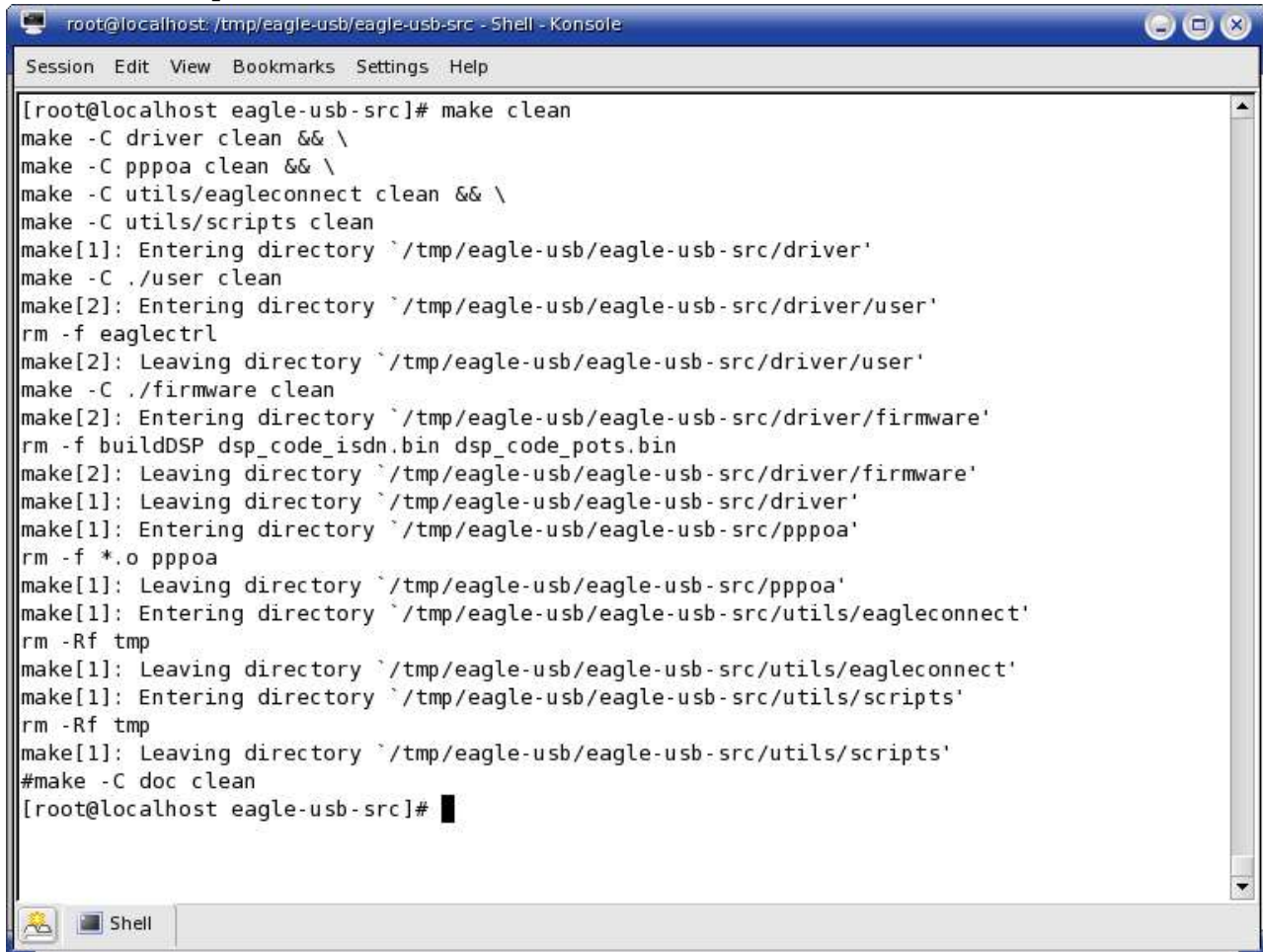
*****
* You should now unplug and replug your modem to clear its memory. *
*****

[root@localhost eagle-usb-src]#
```

Figure 16

Remake

If you remake the module, carry out the cleaning of the sources with the order 'make clean' under the directory eagle-usb-src and take again stage 5 of the installation part.

A screenshot of a terminal window titled 'root@localhost: /tmp/eagle-usb/eagle-usb-src - Shell - Konsole'. The window has a menu bar with 'Session', 'Edit', 'View', 'Bookmarks', 'Settings', and 'Help'. The terminal output shows the execution of 'make clean' in the 'eagle-usb-src' directory. The process involves recursive cleaning of subdirectories: 'driver', 'driver/user', 'driver/firmware', 'pppoa', 'utils/eagleconnect', and 'utils/scripts'. It also includes commands to remove object files and temporary files. The terminal ends with the prompt '[root@localhost eagle-usb-src]#'.

```
[root@localhost eagle-usb-src]# make clean
make -C driver clean && \
make -C pppoa clean && \
make -C utils/eagleconnect clean && \
make -C utils/scripts clean
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/driver'
make -C ./user clean
make[2]: Entering directory `/tmp/eagle-usb/eagle-usb-src/driver/user'
rm -f eaglectrl
make[2]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/driver/user'
make -C ./firmware clean
make[2]: Entering directory `/tmp/eagle-usb/eagle-usb-src/driver/firmware'
rm -f buildDSP dsp_code_isdn.bin dsp_code_pots.bin
make[2]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/driver/firmware'
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/driver'
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/pppoa'
rm -f *.o pppoa
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/pppoa'
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/utils/eagleconnect'
rm -Rf tmp
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/utils/eagleconnect'
make[1]: Entering directory `/tmp/eagle-usb/eagle-usb-src/utils/scripts'
rm -Rf tmp
make[1]: Leaving directory `/tmp/eagle-usb/eagle-usb-src/utils/scripts'
#make -C doc clean
[root@localhost eagle-usb-src]#
```

Figure 17

Problems

DNS server (seen on Fedora core 1, 2 and 3)

After startadsl, if you have some difficulties for accessing Internet site with there domaine name, check the /etc/resolv.conf file, if this file does not contains the domain name server list, check the /etc/ppp/resolv.conf for fedora core 1 and 2 or /var/run/ppp/resolv.conf for fedora core 3, if this file contains the domain name server list, you can do the following change :

```
#Remove the /etc/resolv.conf file
rm /etc/resolv.conf
```

```
#create a symbolic link to the updated /etc/ppp/resolv.conf file for fedora core
1 and 2
ln -s /etc/resolv.conf /etc/ppp/resolv.conf
```

```
#create a symbolic link to the updated /etc/ppp/resolv.conf file for fedora core
3
ln -s /etc/resolv.conf /var/run/ppp/resolv.conf
```