Configuring slmodemd on Fedora Linux

1. Run ScanModem

Visit LinModems Resource Page: http://linmodems.technion.ac.il/
Download scanModem.gz: http://linmodems.technion.ac.il/packages/scanModem.gz

After Downloading scanModem.gz

```
[olivares@localhost ~]$ su -
Password:
[root@localhost ~]# gunzip scanModem.gz
[root@localhost ~]# chmod +x scanModem
[root@localhost ~]# ./scanModem

 From http://limodems.technion.ac.il , get a recent update of scanModem,
 if this copy was not there obtained. There are weekly updates.
 Updated on: 2007_July_16

Identifying PCI bus slots with candidate modems.
 === Finished modem firmware and bootup diagnostics section. ===
 === Next deducing cogent software ===

Analysing card in PCI bus 00:0a.0, writing to scanout.00:0a.0
IDENT=slamr
Using scanout.00:0a.0 data, and writing guidance to ModemData.txt
Writing Smartlink.txt

 Writing residual guidance customized to your System.
   A subfolder Modem/  has been written,  containing these files with more detailed
Information:
 ------------------------------------------------------------------------------
--------
 dmesg.txt       Bootup.txt      dmesg.txt     DriverCompiling.txt
InfoGeneral.txt  ModemData.txt   Rational.txt  scanout.00:0a.0
Smartlink.txt    SoftModem.txt   Testing.txt   UNSUBSCRIBE.txt
wvdial.txt       YourSystem.txt
------------------------------------------------------------------------------
--------
       Please read 1stRead.txt first for Guidance.

[root@localhost ~]#

[root@localhost Modems]# cat Modem/ModemData.txt
 Only plain text email is forwarded by the  DISCUSS@linmodems.org List Server.
 Do use the following as the email Subject Line:
           SomeName, YourCountry Fedora release 7 (Moonshine)
Kernel  kernel 2.6.22.1-33.fc7
 This will alert cogent experts, and  distinguish cases in the Archives.
```

```
 YourCountry will enable Country Code guidance.
 Occassionally responses are blocked by an Internet Provider mail filters.
 So in a day, also check the Archived responses at http://www.linmodems.org .
 Local Linux experts can be found through: http://www.linux.org/groups/index.html
--------------------------  System information ----------------------------
CPU=i686,  Fedora release 7 (Moonshine)
Kernel
Linux version 2.6.22.1-33.fc7 (kojibuilder@xenbuilder2.fedora.redhat.com) (gcc
version 4.1.2 20070502 (Red Hat 4.1.2-12)) #1 SMP Tue Jul 17 17:13:26 EDT 2007
 scanModem update of:  2007_July_16

The slmodemd set symbolic link is /dev/ttySL0 -> /dev/pts/3

ALSAversion 1.0.14rc2
USB modem not detected by lsusb

Modem or host audio card candidates have firmware information:

 PCI slot       PCI ID          SubsystemID     Name
 ----------     ---------       ---------       --------------
 00:0a.0        163c:3052       163c:3052       Modem: Smart Link Ltd. SmartLink
SmartPCI562 56K Modem

 Modem interrupt assignment and sharing:
 16:     51937   IO-APIC-fasteoi   SL1900

 --- Bootup diagnostics for card in PCI slot 00:0a.0 ----
ACPI: PCI Interrupt 0000:00:0a.0[A] -> GSI 17 (level, low) -> IRQ 16
0000:00:0a.0: ttyS3 at I/O 0xb008 (irq = 16) is a 16450
0000:00:0a.0: ttyS2 at I/O 0xb010 (irq = 16) is a 8250
Couldn't register serial port 0000:00:0a.0: -28
ACPI: PCI interrupt for device 0000:00:0a.0 disabled
ACPI: PCI Interrupt 0000:00:0a.0[A] -> GSI 17 (level, low) -> IRQ 16

 The PCI slot 00:0a.0 of the modem card may be disabled early in
 a bootup process,  but then enabled later. If modem drivers load
 but the  modem is not responsive, read Bootup.txt about possible fixes.
 Send dmesg.txt along with ModemData.txt to discuss@linmodems.org
 if help is needed.


 === Finished modem firmware and bootup diagnostics section. ===
 === Next deducing cogent software ===

 For candidate modem in PCI bus:  00:0a.0
   Class 0703: 163c:3052 Modem: Smart Link Ltd. SmartLink SmartPCI562 56K Modem
      Primary PCI_id  163c:3052
 Support type needed or chipset:        slamr


The modem is supported by the Smartlink slamr driver
plus the slmodemd helper utility.  Read the
Smartlink.txt and Modem/YourSystem.txt for follow through guidance.

Writing Smartlink.txt
============ end Smartlink section =====================

 Completed candidate modem analyses.
```

```
 The base of the UDEV device file system is: /dev/.udev

 Versions adequately match for the compiler installed: 4.1.2
             and the compiler used in kernel assembly: 4.1.2

 Kernel-header resources needed for compiling are not manifestly ready!

 If compiling is necessary packages must be installed, providing:
         kernel-source-2.6.22.1-33.fc7


Checking pppd properties:
        -r-xr-xr-x 1 root root 312332 2006-12-01 06:54 /usr/sbin/pppd

In case of an "error 17" "serial loopback" problem, see:
    http://phep2.technion.ac.il/linmodems/archive-sixth/msg02637.html

To enable dialout without Root permission do:
        $ su - root  (not for Ubuntu)
         chmod a+x /usr/sbin/pppd
or under Ubuntu related Linuxes
         chmod a+x /usr/sbin/pppd

Checking settings of:   /etc/ppp/options
noauth
lock
usepeerdns

In case of a message like:
   Warning: Could not modify /etc/ppp/pap-secrets: Permission denied
see http://linmodems.technion.ac.il/bigarch/archive-sixth/msg04656.html

Read Modem/YourSystem.txt concerning other COMM channels: ppp0
Which can interfere with Browser naviagation.

 Don't worry about the following, it is for the experts
 should trouble shooting be necessary.
============================================================

 Checking for modem support lines:
 -----------------------------------
     /device/modem symbolic link:
slmodemd created symbolic link /dev/ttySL0:  lrwxrwxrwx 1 root root 10 2007-07-25
09:01 /dev/ttySL0 -> /dev/pts/3
     Within /etc/udev/ files:
/etc/udev/rules.d/50-udev.rules:KERNEL=="modems/mwave*",        NAME="%k",
GROUP="uucp", MODE="0660"
     Within /etc/modprobe.conf files:
/etc/modprobe.conf:install slamr modprobe --ignore-install ungrab-winmodem ;
modprobe --ignore-install slamr; test -e /dev/slamr0 || (/bin/mknod -m 660
/dev/slamr0 c 242 0 2>/dev/null && chgrp dialout /dev/slamr0)
/etc/modprobe.conf~:install slamr modprobe --ignore-install ungrab-winmodem ;
modprobe --ignore-install slamr; test -e /dev/slamr0 || (/bin/mknod -m 660
/dev/slamr0 c 242 0 2>/dev/null && chgrp dialout /dev/slamr0)
     Within any ancient /etc/devfs files:

     Within ancient kernel 2.4.n /etc/module.conf files:

--------- end modem support lines --------
```

2. Get the modem drivers

http://linmodems.technion.ac.il/packages/smartlink/slmodem-2.9.11-20070505.tar.gz
and
http://linmodems.technion.ac.il/packages/smartlink/ungrab-winmodem-20070505.tar.gz

3. Install kernel-devel packages if not present

```
[root@localhost ~]# uname -r
2.6.22.1-33.fc7
[root@localhost ~]# rpm -qa kernel-devel*
kernel-devel-2.6.21-1.3226.fc7
kernel-devel-2.6.22.1-27.fc7
kernel-devel-2.6.21-1.3194.fc7
kernel-devel-2.6.22.1-33.fc7
[root@localhost ~]#
```

If the kernel-devel package is not installed, then you will have to install it via yum or another method:

```
[root@localhost ~]# yum install kernel-2.6.22.1-33.fc7 kernel-devel-2.6.22.1-33.fc7
kernel-headers-2.6.22.1-33.fc7
Loading "installonlyn" plugin
Setting up Install Process
Parsing package install arguments
fedora                    100% |=========================| 2.1 kB    00:00
primary.sqlite.bz2        100% |=========================| 3.8 MB    12:40
updates                   100% |=========================| 1.9 kB    00:00
primary.sqlite.bz2        100% |=========================| 1.1 MB    03:25
Resolving Dependencies
--> Running transaction check
filelists.sqlite.bz2      100% |=========================| 2.6 MB    08:32
---> Package kernel-devel.i686 0:2.6.22.1-33.fc7 set to be updated
---> Package kernel.i686 0:2.6.22.1-33.fc7 set to be updated
---> Package kernel-headers.i386 0:2.6.22.1-33.fc7 set to be updated

Dependencies Resolved

================================================================================
 Package                 Arch       Version          Repository        Size
================================================================================
Installing:
 kernel                  i686       2.6.22.1-33.fc7  updates            16 M
 kernel-devel            i686       2.6.22.1-33.fc7  updates           4.7 M
Updating:
 kernel-headers          i386       2.6.22.1-33.fc7  updates           652 k

Transaction Summary
================================================================================
Install      2 Package(s)
Update       1 Package(s)
Remove       0 Package(s)

Total download size: 22 M
Is this ok [y/N]: y
Downloading Packages:
(1/3): kernel-headers-2.6 100% |=========================| 652 kB    02:18
(2/3): kernel-2.6.22.1-33 100% |=========================|  16 MB    50:34
(3/3): kernel-devel-2.6.2 100% |=========================| 4.7 MB    13:03
```

```
Running Transaction Test
Finished Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing: kernel-devel                 ########################## [1/4]
  Installing: kernel                       ########################## [2/4]
  Updating  : kernel-headers               ########################## [3/4]
  Cleanup   : kernel-headers               ########################## [4/4]

Installed: kernel.i686 0:2.6.22.1-33.fc7 kernel-devel.i686 0:2.6.22.1-33.fc7
Updated: kernel-headers.i386 0:2.6.22.1-33.fc7
Complete!
```

4. Compile the drivers

```
[olivares@localhost slmodem-2.9.11-20070505]$ make clean
[olivares@localhost slmodem-2.9.11-20070505]$ make
KERNEL_DIR=/lib/modules/2.6.22.1-33.fc7/build/
[olivares@localhost slmodem-2.9.11-20070505]$ make
[olivares@localhost slmodem-2.9.11-20070505]$ su
Password:
[root@localhost slmodem-2.9.11-20070505]# make install
[root@localhost slmodem-2.9.11-20070505]# cd ../ungrab-winmodem-20070505
[root@localhost ungrab-winmodem-20070505]# make clean
[root@localhost ungrab-winmodem-20070505]# make
[root@localhost ungrab-winmodem-20070505]# make install
[root@localhost ungrab-winmodem-20070505]# exit
[root@localhost ~]# modprobe ungrab-winmodem
[root@localhost ~]# modprobe slamr
[root@localhost ~]# slmodemd -c USA /dev/slamr0 &
[1] 3889
[root@localhost ~]# SmartLink Soft Modem: version 2.9.11 Aug  1 2007 02:43:39
symbolic link `/dev/ttySL0' -> `/dev/pts/1' created.
modem `slamr0' created. TTY is `/dev/pts/1'
Use `/dev/ttySL0' as modem device, Ctrl+C for termination.
```

5. Autoload drivers when booting

After verifying the installation of slmodemd was successfull, one can make use of chkconfig to add slmodemd service to autoload at boot time.

```
[olivares@localhost ~]$ su -
Password:
[root@localhost ~]# chkconfig slmodemd on
[root@localhost ~]# chkconfig slmodemd --list
slmodemd        0:off   1:off   2:on    3:on    4:on    5:on    6:off
[root@localhost ~]#
```

Check symbolic links to see if they are present in /etc/rc.d/init.d/ directory

```
[root@localhost ~]# cd /etc/rc.d/init.d
[root@localhost init.d]# pwd
/etc/rc.d/init.d
[root@localhost init.d]# head -8 slmodemd
#!/bin/sh
#
# slmodemd:    Starts the SmartLink Modem Daemon
#
```

```
# chkconfig: 345 90 10
# description: This is the user space part of the SmartLink Modem driver
# processname: slmodemd
# config: /etc/sysconfig/slmodem
[root@localhost init.d]# cd ..
[root@localhost rc.d]# for i in 0 1 2 3 4 5 6
> do
> ls rc$i.d/*slmodemd*
> done
rc0.d/K10slmodemd
rc1.d/K10slmodemd
rc2.d/S90slmodemd
rc3.d/S90slmodemd
rc4.d/S90slmodemd
rc5.d/S90slmodemd
rc6.d/K10slmodemd
```

6. Using wvdial

For a good explanation of using wvdial please visit:
http://linmodems.technion.ac.il/wvdial.html

As root user su -, type wvdialconf /etc/wvdial.conf. It should find the modem /dev/ttySL0 and then remove the ";" and add username, password, phone number and importantly the line "Carrier Check = no".

```
[olivares@localhost ~]$ su -
Password:
[root@localhost ~]# wvdial /etc/wvdial.conf

[root@localhost slmodem-2.9.11-20070505]# cat /etc/wvdial.conf

[Dialer Defaults]
Modem = /dev/ttySL0
Baud = 460800
Init1 = ATZ
Init2 = ATQ0 V1 E1 S0=0 X3 &C1 &D2  +MS=90
ISDN = 0
Modem Type = Analog Modem
Phone = 7072000
Username = my_username
Password = my_password
Carrier Check = no
Stupid Mode = yes
Auto DNS = yes
[root@localhost ~]#
```

7. All the commands and their output

```
[olivares@localhost slmodem-2.9.11-20070505]$ make clean
[olivares@localhost slmodem-2.9.11-20070505]$ make
KERNEL_DIR=/lib/modules/2.6.22.1-33.fc7/build/
[olivares@localhost slmodem-2.9.11-20070505]$ make
[olivares@localhost slmodem-2.9.11-20070505]$ su
Password:
[root@localhost slmodem-2.9.11-20070505]# make install
[root@localhost slmodem-2.9.11-20070505]# cd ../ungrab-winmodem-20070505
[root@localhost ungrab-winmodem-20070505]# make clean
```

```
[root@localhost ungrab-winmodem-20070505]# make
[root@localhost ungrab-winmodem-20070505]# make install
[root@localhost ungrab-winmodem-20070505]# exit
[olivares@localhost ~]$ su -
Password:
[root@localhost ~]# chkconfig slmodemd on
[root@localhost ~]# chkconfig slmodemd --list
slmodemd        0:off   1:off   2:on    3:on    4:on    5:on    6:off
[root@localhost ~]#
[root@localhost ~]# modprobe ungrab-winmodem
[root@localhost ~]# modprobe slamr
[root@localhost ~]# slmodemd -c USA /dev/slamr0 &
[1] 3889
[root@localhost ~]# SmartLink Soft Modem: version 2.9.11 Aug  1 2007 02:43:39
symbolic link `/dev/ttySL0' -> `/dev/pts/1' created.
modem `slamr0' created. TTY is `/dev/pts/1'
Use `/dev/ttySL0' as modem device, Ctrl+C for termination.



[olivares@localhost ~]$ cd Download/slmodem-2.9.11-20070505
[olivares@localhost slmodem-2.9.11-20070505]$ make clean
make -C modem clean &&  make -C drivers clean &&  echo "done."
make[1]: Entering directory `/home/olivares/Download/slmodem-2.9.11-20070505/modem'
rm -f slmodemd modem_test modem_main.o modem_cmdline.o modem_test.o modem.o
modem_datafile.o modem_at.o modem_timer.o modem_pack.o modem_ec.o modem_comp.o
modem_param.o modem_debug.o homolog_data.o dp_sinus.o dp_dummy.o sysdep_common.o
rm -f *~ *.orig *.rej
make[1]: Leaving directory `/home/olivares/Download/slmodem-2.9.11-20070505/modem'
make[1]: Entering directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
rm -f kernel-ver slamr.o slusb.o slamr.ko slusb.ko *st7554.o amrmo_init.o
sysdep_amr.o *.mod.* .*.cmd *~
rm -f -r .tmp_versions
make[1]: Leaving directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
done.
[olivares@localhost slmodem-2.9.11-20070505]$ make
KERNEL_DIR=/lib/modules/2.6.22.1-33.fc7/build/
make -C modem all
make[1]: Entering directory `/home/olivares/Download/slmodem-2.9.11-20070505/modem'
make[1]: Leaving directory `/home/olivares/Download/slmodem-2.9.11-20070505/modem'
make -C drivers KERNEL_DIR=/lib/modules/2.6.22.1-33.fc7/build/
make[1]: Entering directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
cc -I/lib/modules/2.6.22.1-33.fc7/build//include -o kernel-ver kernel-ver.c
make all KERNEL_VER=2.6.22.1-33.fc7
make[2]: Entering directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
make modules -C /lib/modules/2.6.22.1-33.fc7/build/
SUBDIRS=/home/olivares/Download/slmodem-2.9.11-20070505/drivers
make[3]: Entering directory `/usr/src/kernels/2.6.22.1-33.fc7-i686'
  CC [M]  /home/olivares/Download/slmodem-2.9.11-20070505/drivers/amrmo_init.o
/home/olivares/Download/slmodem-2.9.11-20070505/drivers/amrmo_init.c: In function
‘amrmo_pci_probe’:
/home/olivares/Download/slmodem-2.9.11-20070505/drivers/amrmo_init.c:620: warning:
‘deprecated_irq_flag’ is deprecated (declared at include/linux/interrupt.h:66)
/home/olivares/Download/slmodem-2.9.11-20070505/drivers/amrmo_init.c: In function
‘amrmo_init’:
```

```
/home/olivares/Download/slmodem-2.9.11-20070505/drivers/amrmo_init.c:760: warning:
`pci_find_device' is deprecated (declared at include/linux/pci.h:477)
  CC [M]  /home/olivares/Download/slmodem-2.9.11-20070505/drivers/sysdep_amr.o
  CC [M]  /home/olivares/Download/slmodem-2.9.11-20070505/drivers/st7554.o
  LD [M]  /home/olivares/Download/slmodem-2.9.11-20070505/drivers/slamr.o
  LD [M]  /home/olivares/Download/slmodem-2.9.11-20070505/drivers/slusb.o
  Building modules, stage 2.
  MODPOST 2 modules
WARNING: could not find /home/olivares/Download/slmodem-2.9.11-
20070505/drivers/.amrlibs.o.cmd for /home/olivares/Download/slmodem-2.9.11-
20070505/drivers/amrlibs.o
WARNING: modpost: GPL-incompatible module slusb.ko uses future GPL-only symbol
'usb_deregister'
WARNING: modpost: GPL-incompatible module slusb.ko uses future GPL-only symbol
'usb_register_driver'
  CC      /home/olivares/Download/slmodem-2.9.11-20070505/drivers/slamr.mod.o
  LD [M]  /home/olivares/Download/slmodem-2.9.11-20070505/drivers/slamr.ko
  CC      /home/olivares/Download/slmodem-2.9.11-20070505/drivers/slusb.mod.o
  LD [M]  /home/olivares/Download/slmodem-2.9.11-20070505/drivers/slusb.ko
make[3]: Leaving directory `/usr/src/kernels/2.6.22.1-33.fc7-i686'
make[2]: Leaving directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
make[1]: Leaving directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
[olivares@localhost slmodem-2.9.11-20070505]$
[olivares@localhost slmodem-2.9.11-20070505]$ makemake -C modem all
make[1]: Entering directory `/home/olivares/Download/slmodem-2.9.11-20070505/modem'
make[1]: Leaving directory `/home/olivares/Download/slmodem-2.9.11-20070505/modem'
make -C drivers KERNEL_DIR=/lib/modules/2.6.22.1-33.fc7/build
make[1]: Entering directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
cc -I/lib/modules/2.6.22.1-33.fc7/build/include -o kernel-ver kernel-ver.c
make all KERNEL_VER=2.6.22.1-33.fc7
make[2]: Entering directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
make modules -C /lib/modules/2.6.22.1-33.fc7/build
SUBDIRS=/home/olivares/Download/slmodem-2.9.11-20070505/drivers
make[3]: Entering directory `/usr/src/kernels/2.6.22.1-33.fc7-i686'
  Building modules, stage 2.
  MODPOST 2 modules
WARNING: could not find /home/olivares/Download/slmodem-2.9.11-
20070505/drivers/.amrlibs.o.cmd for /home/olivares/Download/slmodem-2.9.11-
20070505/drivers/amrlibs.o
WARNING: modpost: GPL-incompatible module slusb.ko uses future GPL-only symbol
'usb_deregister'
WARNING: modpost: GPL-incompatible module slusb.ko uses future GPL-only symbol
'usb_register_driver'
make[3]: Leaving directory `/usr/src/kernels/2.6.22.1-33.fc7-i686'
make[2]: Leaving directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
make[1]: Leaving directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
[olivares@localhost slmodem-2.9.11-20070505]$
[olivares@localhost slmodem-2.9.11-20070505]$ su
Password:
[root@localhost slmodem-2.9.11-20070505]# make install
make -C modem all
make[1]: Entering directory `/home/olivares/Download/slmodem-2.9.11-20070505/modem'
make[1]: Leaving directory `/home/olivares/Download/slmodem-2.9.11-20070505/modem'
```

```
make -C drivers KERNEL_DIR=/lib/modules/2.6.22.1-33.fc7/build
make[1]: Entering directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
cc -I/lib/modules/2.6.22.1-33.fc7/build/include -o kernel-ver kernel-ver.c
make all KERNEL_VER=2.6.22.1-33.fc7
make[2]: Entering directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
make modules -C /lib/modules/2.6.22.1-33.fc7/build
SUBDIRS=/home/olivares/Download/slmodem-2.9.11-20070505/drivers
make[3]: Entering directory `/usr/src/kernels/2.6.22.1-33.fc7-i686'
  Building modules, stage 2.
  MODPOST 2 modules
WARNING: could not find /home/olivares/Download/slmodem-2.9.11-
20070505/drivers/.amrlibs.o.cmd for /home/olivares/Download/slmodem-2.9.11-
20070505/drivers/amrlibs.o
WARNING: modpost: GPL-incompatible module slusb.ko uses future GPL-only symbol
'usb_deregister'
WARNING: modpost: GPL-incompatible module slusb.ko uses future GPL-only symbol
'usb_register_driver'
make[3]: Leaving directory `/usr/src/kernels/2.6.22.1-33.fc7-i686'
make[2]: Leaving directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
make[1]: Leaving directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
make install -C drivers KERNEL_DIR=/lib/modules/2.6.22.1-33.fc7/build
make[1]: Entering directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
cc -I/lib/modules/2.6.22.1-33.fc7/build/include -o kernel-ver kernel-ver.c
mkdir -p /dev
mknod -m 600 /dev/slamr0 c 242 0 ;   mknod -m 600 /dev/slamr1 c 242 1 ;   mknod -m
600 /dev/slamr2 c 242 2 ;   mknod -m 600 /dev/slamr3 c 242 3 ;  echo -n
mknod -m 600 /dev/slusb0 c 243 0 ;   mknod -m 600 /dev/slusb1 c 243 1 ;   mknod -m
600 /dev/slusb2 c 243 2 ;   mknod -m 600 /dev/slusb3 c 243 3 ;  echo -n
make install KERNEL_VER=2.6.22.1-33.fc7
make[2]: Entering directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
install -D -m 644 slamr.ko /lib/modules/2.6.22.1-33.fc7/extra/slamr.ko
install -D -m 644 slusb.ko /lib/modules/2.6.22.1-33.fc7/extra/slusb.ko
/sbin/depmod -a
make[2]: Leaving directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
make[1]: Leaving directory `/home/olivares/Download/slmodem-2.9.11-
20070505/drivers'
install -D -m 755 modem/slmodemd /usr/sbin/slmodemd
rm -f -rf /var/lib/slmodem
install -d -D -m 755 /var/lib/slmodem
[root@localhost slmodem-2.9.11-20070505]#
[root@localhost slmodem-2.9.11-20070505]# cd ../ungrab-winmodem-20070505
[root@localhost ungrab-winmodem-20070505]# make clean
rm -f *.o *.ko *.mod.* .*.cmd *~
rm -f -r .tmp_versions
[root@localhost ungrab-winmodem-20070505]# make
make modules -C /lib/modules/2.6.22.1-33.fc7/build
SUBDIRS=/home/olivares/Download/ungrab-winmodem-20070505
make[1]: Entering directory `/usr/src/kernels/2.6.22.1-33.fc7-i686'
  CC [M]  /home/olivares/Download/ungrab-winmodem-20070505/ungrab-winmodem.o
/home/olivares/Download/ungrab-winmodem-20070505/ungrab-winmodem.c: In function
‘softmodem_release_init’:
/home/olivares/Download/ungrab-winmodem-20070505/ungrab-winmodem.c:90: warning:
```

```
pci_find_device is deprecated (declared at include/linux/pci.h:477)
  Building modules, stage 2.
  MODPOST 1 modules
  CC      /home/olivares/Download/ungrab-winmodem-20070505/ungrab-winmodem.mod.o
  LD [M]  /home/olivares/Download/ungrab-winmodem-20070505/ungrab-winmodem.ko
make[1]: Leaving directory `/usr/src/kernels/2.6.22.1-33.fc7-i686'
[root@localhost ungrab-winmodem-20070505]# make install
make modules -C /lib/modules/2.6.22.1-33.fc7/build
SUBDIRS=/home/olivares/Download/ungrab-winmodem-20070505
make[1]: Entering directory `/usr/src/kernels/2.6.22.1-33.fc7-i686'
  Building modules, stage 2.
  MODPOST 1 modules
make[1]: Leaving directory `/usr/src/kernels/2.6.22.1-33.fc7-i686'
install -D -m 644 ungrab-winmodem.ko /lib/modules/2.6.22.1-33.fc7/extra/ungrab-
winmodem.ko
/sbin/depmod -a
[root@localhost ungrab-winmodem-20070505]#
[olivares@localhost ~]$ su -
Password:
[root@localhost ~]# chkconfig slmodemd on
[root@localhost ~]# chkconfig slmodemd --list
slmodemd        0:off   1:off   2:on    3:on    4:on    5:on    6:off
[root@localhost ~]#
[root@localhost ~]# modprobe ungrab-winmodem
[root@localhost ~]# modprobe slamr
[root@localhost ~]# slmodemd -c USA /dev/slamr0 &
[1] 3889
[root@localhost ~]# SmartLink Soft Modem: version 2.9.11 Aug  1 2007 02:43:39
symbolic link `/dev/ttySL0' -> `/dev/pts/1' created.
modem `slamr0' created. TTY is `/dev/pts/1'
Use `/dev/ttySL0' as modem device, Ctrl+C for termination.

[root@localhost ~]# wvdial
--> WvDial: Internet dialer version 1.54.0
--> Cannot get information for serial port.
--> Initializing modem.
--> Sending: ATZ
ATZ
OK
--> Sending: ATQ0 V1 E1 S0=0 X3 &C1 &D2  +MS=90
ATQ0 V1 E1 S0=0 X3 &C1 &D2  +MS=90
OK
--> Modem initialized.
--> Sending: ATDT7072000
--> Waiting for carrier.
ATDT7072000
CONNECT 49333
--> Carrier detected.  Starting PPP immediately.
--> Starting pppd at Wed Aug  1 02:50:09 2007
--> pid of pppd: 3917
--> Using interface ppp0
--> local  IP address 66.201.8.97
--> remote IP address 66.201.8.6
--> primary   DNS address 66.201.0.203
--> secondary DNS address 12.176.80.9

shows a successfull connection.  File created on.
[olivares@localhost ~]$ echo $(date +%Y-%m-%d~%H:%M:%S)
2007-08-01~13:35:35
```