

# Clipper on Linux!



## Harbour Clipper

Small Debian, Ubuntu, Kubuntu howto: Dec 2009 (updated 03-2011)

Other little italian howto... [Harbour on Windows](#)  
[Harbour project official homepage](#)



A Clipper Harbour Linux app running on Linux via Putty ssh client  
click to zoom in

### How to install and compile Harbour on Ubuntu from SVN

#### Deb packages requested to compile Harbour svn sources on Ubuntu (11.04 and prior release)

First be sure to have the Universe repository enabled, depending on Ubuntu release, from menu:

System > Administration > Update manager [settings] button

or from:

System > Administration > Software Sources: Ubuntu software [tab]

Then open terminal from Applications: Accessories: Terminal and type or better copy the red rows below and paste them into the terminal window:

```
sudo apt-get update; sudo apt-get install subversion wget rcs build-essential ncurses-dev libslang2-dev tk8.3-dev
unixodbc-dev libncurses-dev libx11-dev libgpm-dev firebird2.1-dev libfreeimage-dev libmysqlclient15-dev libpq-dev
libqt3-mt-dev liballegro4.2-dev wine dosemu-freedos mingw32 zlib1g-dev libpcre3-dev libncurses-dev libslang2-dev
libx11-dev libgpmg1-dev unixodbc-dev libcurl4-gnutls-dev firebird2.1-dev libgd2-xpm-dev libsqlite3-dev libqt4-dev
libwxbase2.8-dev libwxgtk2.8-dev wx-common
```

Then to set some qt4 related system default, please type this commands:

```
sudo update-alternatives --set uic /usr/bin/uic-qt4
sudo update-alternatives --set moc /usr/bin/moc-qt4
sudo update-alternatives --set lupdate /usr/bin/lupdate-qt4
sudo update-alternatives --set lrelease /usr/bin/lrelease-qt4
sudo update-alternatives --set designer /usr/bin/designer-qt4
```

#### Harbour how to get source and compile them from SVN trunk

- 1) - Open a terminal window from menu Applications: Accessories: Terminal;
- 2) - Check the requested packages as specified on top of this page;
- 3) - Type or copy and paste (a row a time then press enter) into the terminal window:

```
mkdir $HOME/src
cd $HOME/src
svn co https://harbour-project.svn.sourceforge.net/svnroot/harbour-project/trunk/harbour harbour
cd $HOME/src/harbour
export HB_BIN_INSTALL=/usr/bin
export HB_INSTALL_PREFIX=/usr/bin
export HB_LIB_INSTALL=/usr/lib/harbour
export HB_INC_INSTALL=/usr/include/harbour
export HB_DOC_INSTALL=/usr/share/doc/harbour
export HB_ETC_INSTALL=/etc/harbour
export HB_CONTRIBLIBS="hbqt hbct hbqtutils hbhpdf xhb hbxml hbmzip hbzip hbxbp hbtip hbgd hbpgsql hbcurl hbmysql
hbsqlit3 hbssl hbodbc rddsql gtqtc hbmisc hbcups hbziparc"
export HB_BUILD_SHARED=no
make clean
make
```

is not strictly need to install Harbour binaries into system files, to use Harbour without install it simply add to your PATH environment variable the current path of your harbour binary, type:

```
nano .bashrc
```

and append this row:

```
export PATH=$PATH:$HOME/src/harbour/bin/linux/gcc
```

Then to force the read of env type:

```
source $HOME/.bashrc
```

While if you want to install Harbour into system wide binary type:

```
sudo -E make install
```

By the way to check which build of Harbour is called by the system, type:

```
harbour -build
```

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#### How to update and compile Harbour from svn sources

## how to update and compile harbour from svn sources

To update and compile Harbour from latest svn revision please download this shell script: using terminal type o better copy and paste the rows below, please copy and paste one row a time, then press enter:

```
mkdir $HOME/src
cd $HOME/src
wget http://www.elart.it/harbour/MBaggharbour2_svn
chmod 700 MBaggharbour2_svn
./MBaggharbour2_svn
```

The above instructions are to be done only one time, then, to update and compile Harbour from SVN sources, you simply need to run the script by opening a terminal and typing:

```
cd $HOME/src; ./MBaggharbour2_svn
```

### To compile the sources in the contrib directories for example hhide, type :

```
cd $HOME/src/harbour/contrib/hhide
hbm2 hhide.hbp -rebuild
```

To run the just compiled hhide type:

```
./hhide
```

**To download and to compile the latest svn revision of wxHarbour** using terminal, type o better copy and paste the red rows below, please copy and paste one row a time, then press enter:

- first be sure you have this packages installed, type:

```
sudo apt-get update
sudo apt-get install libwxbase2.8-dev libwxgtk2.8-dev wx-common
```

Then download the wxHarbour from svn and compile the source:

```
mkdir $HOME/src
cd $HOME/src
svn co https://wxharbour.svn.sourceforge.net/svnroot/wxharbour/trunk/wxHarbour wxHarbour
cd $HOME/src/wxHarbour
hbm2 wxharbour.hpb
```

Then to compile and run one of many samples contained into sources tree please try:

```
cd $HOME/src/wxharbour/trunk/wxHarbour/samples/dbf_ctrls1/
hbm2 .././wxharbour.hbc dbf_ctrls1.prg
./dbf_ctrls1
```

---

## How to compile my first .prg?

---

Open a terminal from Applications: Accessories and type:

```
nano hello.prg
```

Then type or copy and paste into hello.prg the blue lines below:

```
function main()
do while .t.
  setcolor("w/n")
  clear screen
  dummy:="N"
  quadro(1,1,10,60)
  @ 3,3 say "Hello world" color "w/r"
  @ 4,3 say "From harbour ;-)" color "w/b"
  @ 5,3 say "Do you want exit... ? "
  @ row(), col()+1 get dummy picture "@K!"
  read
  if dummy=="S"
    clear screen
    quit
  endif
  @ 8,10 say "Ok you do not want exit"
  inkey(2)
enddo
return nil

// -----
function quadro(ri,ci,rf,cf)
@ ri,ci clear to rf,cf
dispbox(ri,ci,rf,cf)
```

```
return nil
```

Save the file and after type:

```
# harbour hello.prg -n -gh
```

a .rbh file will be created

Generating Harbour Portable Object output to 'hello.hrb'... Done.

to run it, type:

```
# hbrun hello
```

To really compile the prg on your Linux system with Harbour, type:

```
# hbm2 -lgpm -static hello.prg
```

and to run the compiled program file please type:

```
# ./hello
```

**To get better info and compile details:**

Please read into the "\$HOME/src/harbour/doc" directory  
and the "INSTALL" file into \$HOME/src/harbour directory.