

Building Python 2.5.1 (against tcltk 8.4)

Installing Python 2.5.1 (built against tcltk 8.4) for Linux

1. Download Python 2.5.1 from <http://www.python.org/download/releases/2.5.1/>
2. Unzip and change to the directory of the unpacked archive, E.g.,
 - `tar -zxvf Python-2.5.1.tgz`
 - `cd Python-2.5.1`
3. *Run, `./configure --prefix=<installation directory>`:
 - `./configure --prefix=/afs/slac/g/glast/ground/GLAST_EXT/redhat4-i686-32bit/python/2.5.1-gcc34/`
4. Edit the file, "Setup," in the "Modules" directory, "Modules/Setup"
 - Enable zlib (Uncomment the line corresponding to "zlib")
 - To build Python against tcltk 8.4, there are three lines to edit in the file (*I would suggest searching for "_tkinter" in the Modules/Setup file, then following the documentation*)
 - a. Enable tkinter, by Uncommenting the line `"_tkinter _tkinter.c tkappinit.c -DWITH_APPINIT "`
 - b. Uncomment and edit to reflect where your Tcl/Tk libraries are, example
 - `"-L/afs/slac.stanford.edu/g/glast/applications/heasoft/PROD/tcltk/i686-pc-linux-gnu-libc2.3.2/lib"`
 - c. Uncomment and edit to reflect where your Tcl/Tk headers are
 - d. Uncomment and edit to reflect your Tcl/Tk versions are
5. Run
 - `make`
 - `make install`

*** Step 3 must be done before 4. Running, `./configure`," generates the file Modules/Setup**

While running "make", if you run into any problems finding tcl8.4 or tk8.4 libraries, try setting the environment variable, LD_RUN_PATH to point to the location of the tcltk libraries:

```
make clean
setenv LD_RUN_PATH <Location of tcltk libraries>
make
make install
unsetenv LD_RUN_PATH
```

Installing Python 2.5.1 (built against tcltk 8.4) for Windows

By default, tcl/tk version 8.4 ships with Python 2.5.1 for Windows so just go through the installation process.

1. Download the appropriate python2.5.1 msi file for your windows architecture <http://www.python.org/download/releases/2.5.1/>
2. Using command.exe, enter the following command
 - if installing on a network drive
 - `msiexec /a <python-msi-path>/python-2.5.1.msi ALLUSERS=1 TARGETDIR=<installation director`
 - Example, to install python in "V:\Glast_Software\Toaster\GLAST_EXT\Windows-i386-32bit\python\2.5.1-gcc34" logged in on glast06, enter
 - `msiexec /a V:\Glast_Software\Toaster\GLAST_EXT\VC8\python\python-2.5.1.msi ALLUSERS=1 TARGETDIR="V:\Glast_Software\Toaster\GLAST_EXT\Windows-i386-32bit\python\2.5.1-gcc34"`