

Installation of **cleanstrain+**

Step 1

untar files into a directory

Step 2

change directory to .../Progs

use script to compile programs;

For the Intel Mac, use

`./comp_mactel+`

Before running `comp_mactel+`, you'll need to locate the fortran compiler; I've gotten both `gfortran` and `g95` from the web.

<http://hpc.sourceforge.net/>

In addition, you'll need to have the mac "developer's library". This is needed for the c-compiler that goes with either `gfortran` or `g95` AND for many of the critical libraries called in `est_noise6ac`.

Compile programs by typing

`./comp_mactel+`

For linux with the `ifc` fortran compiler and the `mkl` library installed on my computer `shastina`, I run `./comp_ifc+`

For linux, if you've downloaded the tar file `cleanstrain_linux.tar`, you can skip this step!

Step 3

The GMT plotting library needs to be present. I use version 4.1 or greater since these newer versions have sensible time axis.

And, the command 'convert' needs to be present. On the Mac, you can get that through the fink package manager; you'll want the `imagemagick` stuff.

In addition, you'll need the bottle processing software, `xqp`, `bag`, `catbot`, too.

Step 4

The program `baytap` needs to be installed; Kathleen H. at Unavco has some concise instructions on its installation; it is included here as `install_baytap.pdf`.

Step 5

Depending upon your installation, you'll need to edit the script called `Edit_files_for_install+` which identifies the directories where the various

supporting programs are located; there are 4 lines that you need to edit; follow the instructions in this script. The script is set-up to run on my computer where the resident directory for cleanstrain+ is /home/langbein/proglib/Strain, the GMT programs are located in /usr/local/GMT4.1.4/bin, the bottle routines are /usr/local/LOWFREQ, and baytap is located in /home/langbein/proglib/baytap/baytap.

Step 6

Finally, you might want to look at the example in the EXAMPLE directory.