

## Using STATA on CSDA's UNIX<sup>1</sup>

CSDA currently has a two-user license for STATA 9. STATA 9 now has a Graphic User Interface (GUI), which is invoked by typing **xstata** at the UNIX prompt and requires X Windows. This interface appears and functions much like that of the Windows STATA user interface. The nongraphic user interface can be invoked by typing **stata** at the UNIX prompt and does not require x windows. However, this non-graphic interface can not display graphs. While STATA can be run interactively, it is easier to write a program, and submit it. We have written an executable file `"/csda/help/stb"` that will make it easier to run STATA batch files. The file consists of the line:

```
stata -b do "$1".do
```

This command file allows you to submit STATA programs with the command `"stb filename &"` if your STATA program has the extension `".do"`. For example, if your program were called `"test.do"` you would issue the command `"stb test &"`. (If this doesn't work for you, your UNIX account has not been configured to work well on the CSDA UNIX cluster. Please contact CSDA Computer/Statistical core staff for assistance.)

Please refer to the document `"Using Stat/Transfer on CSDA's UNIX"` for information about how to create data sets that are usable by STATA.

We have complete sets of manuals in BA-B18. Stata has a web site that may be helpful – <http://www.stata.com/support/faqs/>. Also, for those using The National Longitudinal Study of Adolescent Health, a paper explaining how to use STATA to weight the data properly can be found at <http://www.cpc.unc.edu/projects/addhealth/strategies.html>.

Following is a sample STATA program. It can be found on `/csda/help/stata/test.do`.

```
* test.do, Patty Glynn. June 19, 2000
* This is a sample stata program file.
* It can be run in batch mode by typing:
* stb test &
* There is an executable file /usr/local/stata/stb which has the
* syntax stata -b do "$1".do which makes it easier to
* run stata in batch mode. Otherwise, the command required to
* run a file in batch mode otherwise would be stata -b do test.do &
* (assuming program file of test.do)
* set memory - default is pretty smallset memory 10000k
* set matrix size if you will be doing large regressions -
* default is pretty smallset matsize 200
* ask Stata to write 72 columns wide set textsize 72
* specify data set to use (in stata format) use
/csda/local/src/stata9/sample.dta
* describe the data desc
```

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<sup>1</sup> Prepared by Patty Glynn, University of Washington, Center for Studies in Demography and Ecology, and revised by Hui-shien Tsao, March 15, 2007.

```

* get means of certain variables means county mdstatus
* create a new variable (generate)
* _n is the number of the case gen id = _n
* keep only certain cases keep if id <= 20
* Generate another variable gen idsqr = id*id
*** Command lines may go beyond 80 characters.
*** DO NOT INSERT HARD RETURNS in command lines.
*** A hard return in a command line causes a problem.
*** It is okay to let the line wrap.
* list variables list id idsqr rectype year datanum serial numprec
subsamp hhwtnumperhh dwsizer numhh
* sort file by a variable sort subsamp
list id subsamp
* create a dichotomous variable - lowsamp generate lowsamp = 0 replace
lowsamp = 1 if subsamp < 50 list lowsamp subsamp
* ttest. ttest serial, by (lowsamp)
* tabulate - similar to proc freq. tabulate lowsamp
* summarize - similar to proc means. summarize subsamp lowsamp
* save the new file. The ", replace" asks stata to overwrite
* the file if it already exists. save /tmp2/test.dta, replace

```