

Changes to `rwolf` Command when Clustering with a Block Bootstrap

Versions prior to 3.1 of the `rwolf` command had a bug which affects estimated p-values when using a clustered (block) bootstrap and Stata's clustered standard errors. The version of `rwolf` now available on the SSC (from July 9, 2020) corrects this bug, and so will result in different p-values to prior versions of the command if specifying the `cluster` option.

If you would like to access the prior version of the command where this bug correction has not been implemented (for example to ensure replicability of earlier code), this can be downloaded at the following address: <http://www.damianclarke.net/stata/rwolf/rwolf3.0.2.zip>. Additionally, all prior versions of the code can be found on the command's github repository at: <https://github.com/damiancclarke/rwolf/>.

This bug was related to the clustering within bootstrap resamples used to estimate null distributions for hypothesis tests. If specifying (for example) the following options `cluster(state) vce(cluster state)` the command would correctly conduct a clustered bootstrap resampling by states, however would then estimate models within each resample clustering on the original `state` variable which may be represented multiple times given the nature of the bootstrap. In the current version of the program this is corrected, and clustering within the clustered bootstrap will occur using a newly defined state variable which defines a single new cluster ID for each resampled state (based on Stata's `idcluster()` option for the `bsample` command).

If not using the `cluster(clustvar)` and `vce(cluster clustvar)` options, this change will not affect p-values estimated between versions 3.0 and 3.1 of the command.

In case of questions, please contact dclarke@fen.uchile.cl.