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THE STATA JOURNAL

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Stata tip 41: Monitoring loop iterations

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If, like me, you have ever started a Stata program running and returned hours later to find it still running with no idea of whether it is actually getting anywhere, then you will be looking for a simple method to monitor your loops. The commands bootstrap and jackknife produce an attractive table of dots for just this purpose by using the undocumented command _dots.

Any loop can easily be modified to report its progress by using _dots:

The first $_$ dots command, called with the argument 0, sets up the graduated header line. The title and number of repetitions are optional. Further calls to $_$ dots take two arguments: the repetition number and a return code. The return code 0 (as used above) indicates a successful repetition, and a dot is displayed. Alternative return codes produce a green 's' (-1) or a red 'x' (1), 'e' (2), 'n' (3) or '?' (any other value).

Below is a more complicated example using a while loop. Here, the loop runs until 70 successes are achieved. For this contrived example, each iteration succeeds at random with 80% probability. Successes are reported with a dot (.) and failures with an x.