

B Advanced Stata usage

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1.1 The Windows Properties Sheet

When you double-click on a shortcut to start an application in Windows, you are actually executing instructions defined in the shortcut's Properties Sheet. To open the Properties Sheet for any shortcut, right-click on the shortcut, and select **Properties**.

Open the Properties Sheet for Stata's shortcut. Click on the **Shortcut** tab. You will see something like the following:

```
StataSE
Target type:      Application
Target location:  Stata19
Target:           C:\Program Files\Stata19\StataSE.exe /UseRegistryStartin
Start in:
Shortcut key:    None
Run:             Normal window
```

The field names may be slightly different, depending on the version of Windows that you are running. The names and locations of files may vary from this. There are two things to pay attention to: the *Target* and *Start in* fields. *Target* is the actual command that is executed to invoke Stata. *Start in* is the directory to switch to before invoking the application. You can change these fields and then click on **OK** to save the updated Properties Sheet.

You can have Stata start in any directory you desire. If necessary, delete the parameter `/UseRegistryStartin` from your *Target* field. Then change the *Start in* field of Stata's Properties Sheet to the location you would like Stata to have as its default working directory. Of course, once Stata is running, you can change directories whenever you wish by using **File > Change working directory...**; see also [D] `cd`.

1.2 Making shortcuts

You can arrange to start Stata without going through the **Start** menu by creating a shortcut on the Desktop. The easiest way to do this is to copy the existing Stata shortcut to the Desktop. You can also create a shortcut directly from the Stata executable. Here are the details:

1. Open the C:\Program Files\StataNow19 folder or the C:\Program Files\Stata19 folder or the folder where you installed [StataNow](#) or Stata.
2. In the folder, find the executable for which you want a new shortcut. The filenames are

```
Stata/MP or StataNow/MP:  StataMP-64.exe
Stata/SE or StataNow/SE:  StataSE-64.exe
Stata/BE or StataNow/BE:  StataBE-64.exe
```

Right-click on and drag the appropriate executable onto the Desktop.

3. Release the mouse button, and select **Create Shortcut(s) Here** from the menu that appears.

You have now created a shortcut. If you want the shortcut in a folder rather than on the Desktop, you can drag it into whatever folder appeals to you.

You set the properties for this shortcut just as you would normally. Right-click on the shortcut, and select **Properties**. Edit the Properties Sheet as explained above in [\[GSW\] B.1 The Windows Properties Sheet](#).

1.3 Executing commands every time Stata is started

Stata looks for the file `profile.do` when it is invoked and, if it finds it, executes the commands in it. Stata looks for `profile.do` first in the directory where Stata is installed, then in the current directory, then along your path, then in your home directory as defined by Windows's `USERPROFILE` environment variable (typically `C:\Users\username`), and finally along the `ado-path` (see [\[P\] sysdir](#)). We recommend that you put `profile.do` in your home directory.

If you create a shortcut that starts in a different directory, it will run the `profile.do` from that directory. This feature allows you to have different `profile.do` files for different projects.

Say that every time you start Stata, you would like to start a dated log for the session. In `C:\Users\mydir`, create the file `profile.do` containing this rather odd-looking command:

```
log using `: display %tCCYY-MM-DD-HH-MM-SS ///
Clock("`c(current_date)' `c(current_time)'" ,"DMYhms")', ///
name(default_log_file)
```

When you invoke Stata, the usual opening appears but with the following additional command, which will be executed:

```
running C:\Users\mydir\profile.do ...
```

How does the command work? Let's work from the inside out:

- `c(current_date)` and `c(current_time)` are local system macros containing the current date and current time. See [\[P\] creturn](#) for more information.
- The left (‘) and right (’) quotes around the local macros expand them. See [\[P\] macro](#) for a full explanation.
- The `Clock()` function uses the resulting date string and the date mask "DMYhms" to create a date-time number Stata understands. See [\[D\] Datetime](#).

- The format `%tCCYY-NN-DD-HH-MM-SS` formats this number in year-month-day-hour-minute-second form because this will make the files sort nicely. See [D] [Datetime display formats](#) for the details.
- The odd-looking `: display ...` allows the formatted date to be used directly in the command as the file name. This is the advanced concept of an in-line expansion of a macro function. You can see more in [P] [macro](#).
- The `log using` command starts a log file, such as shown in [GSW] [16 Saving and printing results by using logs](#).
- The `name` option gives the log file the internal name `default_log_file` so that it will not likely conflict with other log files. See [R] [log](#) for details.
- Finally, the `///` notations are continuation comments so that the three separate lines are interpreted as a single command. See [P] [comments](#) for more about comments.

There are many advanced Stata programming concepts in this one single command!

`profile.do` is treated just as any other do-file once it is executed; results are just the same as if you had started Stata and then typed `run profile.do`. The only special thing about `profile.do` is that Stata looks for it and runs it automatically.

System administrators might also find `sysprofile.do` useful. This file is handled in the same way as `profile.do`, except that Stata first looks for `sysprofile.do`. If that file is found, Stata will execute any commands it contains. After that, Stata will look for `profile.do` and, if that file is found, execute the commands in it.

One example of how `sysprofile.do` might be useful would be when system administrators want to change the path to one of Stata's system directories. Here `sysprofile.do` could be created to contain the command

```
sysdir set SITE "\\Matador\StataFiles"
```

See [U] [16 Do-files](#) for an explanation of do-files. They are nothing more than text files containing sequences of commands for Stata to execute.

1.4 Other ways to launch Stata

The first time that you start Stata for Windows, Stata registers with Windows the actions to perform when you double-click on certain types of files. You can then start a new instance of Stata by double-clicking on a Stata `.dta` dataset, a Stata `.do` do-file, or a Stata `.gph` graph file. In all cases, your current working directory will become the folder containing the file you have double-clicked.

Stata will behave as you would expect in each case. If you double-click on a dataset, Stata will open the dataset after Stata starts. If you double-click on a graph, the graph will be opened by Stata. If you double-click on a do-file, the do-file will be opened in the Do-file Editor.

If you would rather run a do-file directly, right-click on the do-file. You will see menu items for **Execute (do)** and **Execute quietly (run)**. In Windows 11, you will first need to select **Show more options** and then choose the execute item. These items will complete the requested action in a new instance of Stata.

If you want to edit a do-file, look at a graph, or open a dataset without starting a new instance of Stata, drag the file over Stata's main window.

1.5 Stata batch mode

You can run large jobs in Stata in batch mode. There are a few different ways to do this, depending on what your goals are.

Method 1

If you have a particular location where your log file should be after the job is done, this is the method you should use.

In Windows 11 and Windows 10, type `cmd` in the search box in the taskbar, and press *Enter*.

You should now have a command prompt window open. Change the current directory to the place you would like the log file to be by using the `cd` command. For example, suppose your `bigjob` do-file is in `C:\Users\someone\statastuff`, and you would like to save your log in `C:\Users\someone\statalogs`. You would type the following to suppress all screen output and place the log file in the proper location:

```
cd C:\Users\someone\statalogs
"C:\Program Files\Stata19\StataSE.exe" /e do "C:\Users\someone\statastuff\bigjob"
```

You must specify the location of the Stata executable.

The `/e` parameter above tells Stata how to behave when running in batch mode. The available parameters and their purposes are

Parameter	Result
<code>/b</code>	set background (batch) mode and log in plain text
<code>/e</code>	set background (batch) mode and log in plain text without prompting when Stata command has completed
<code>/q</code>	suppress logo and initialization messages
<code>/rngstream#</code>	set random-number generator to <code>mt64s</code> (see [R] set rng) and set random-number stream to <code>#</code> (see [R] set rngstream)
<code>/s</code>	set background (batch) mode and log in SMCL
<code>/i</code>	suppress Stata application icon in the Windows taskbar

Method 2

If you would like to have a batch job that you could run at a particular time or that you could save for later use, you can use the Task Scheduler, which is part of most Windows installations.

This is a bit more advanced, and its implementation differs slightly for each kind of Windows, but here is the general gist.

In Windows 11 and Windows 10, you can search for the Task Scheduler in the search box in the taskbar. Once you have opened the Task Scheduler, click on **Create Basic Task**, and follow the steps of the Basic Task Schedule Wizard to schedule a do-file to run in batch mode. You must specify the `/b` or `/e` option. In the *Start in* field, type the path where you would like the log file to be saved. When this file runs, all output will be suppressed and written to a log file that will be saved in the path specified.

General notes

While your do-file is executing, the Stata icon will appear on the taskbar.

If you click on the icon on the taskbar, Stata will display a box asking if you want to cancel the batch job.

Once the do-file is complete, Stata will flash the icon on the taskbar on and off. You can then click on the icon to close Stata. If you wish for Stata to automatically exit after running the batch do-file, use `/e` rather than `/b`.

You do not have to run large do-files in batch mode. Any do-file that you run in batch mode can also be run interactively. Simply start Stata, type `log using filename`, and type `do filename`. You can then watch the do-file run, or you can minimize Stata while the do-file is running.

1.6 Running simultaneous Stata sessions

Each time you double-click on the Stata icon or launch Stata in any other way, you invoke a new instance of Stata, so if you want to run multiple Stata sessions simultaneously, you may. The title bar of each new Stata that is invoked will reflect its instance number.

1.7 Changing Stata's locale

To change the locale of Stata to English, type

```
set locale_ui en
```

To change it back to match the locale set for your operating system, type

```
set locale_ui default
```

For a complete explanation of locales and Stata, see [\[U\] 12.4.2.4 Locales in Unicode](#).


1.8 More

If you would like Stata to pause every time the screen fills with results, type `set more on`. This will cause a more prompt to appear at the bottom of the Results window whenever there is more information to be displayed than can fit on the screen. This happens, for example, when you are listing many observations.

```
. list make mpg
```

	make	mpg
1.	Linc. Continental	12
2.	Linc. Mark V	12
3.	Cad. Deville	14
4.	Cad. Eldorado	14
5.	Linc. Versailles	14
6.	Merc. Cougar	14
7.	Merc. XR-7	14
8.	Peugeot 604	14
9.	Buick Electra	15
10.	Merc. Marquis	15
11.	Buick Riviera	16
12.	Chev. Impala	16
13.	Dodge Magnum	16
14.	Olds Toronado	16
15.	AMC Pacer	17
16.	Audi 5000	17
17.	Dodge St. Regis	17
18.	Volvo 260	17
19.	Buick LeSabre	18
20.	Dodge Diplomat	18

more

If you want to see the next screen of text, you have a few options: press any key, such as the Spacebar; click on the **More** button, ; or click on the more link at the bottom of the Results window. To see just the next line of text, press `Enter`. Pressing `q` will interrupt the command. If you click on the arrow of the **More** button, you can also select the **Run to completion** menu item to let the command completely finish.

1.9 Memory size considerations

Memory management in Stata is automatic. For details on efficiency tweaks needed by a very few Stata users, look at [\[D\] memory](#).

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