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## Stata tip 77: (Re)using macros in multiple do-files

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Local and global macros provide an extremely useful way to define (for example) groups of values or variable names that can be (re)used in data management and analysis. For example, you may want to fit many different models using a given subset, or several different subsets, of independent variables. So you might define

```
. local indvars1 "var1 var2"
. local indvars2 "var1 var2 var3 var4"
```

Thereafter, subsequent models can be easily specified with reference to the same sets of variables:

```
. logit y indvars1
. regress y indvars1
. logit y indvars2
. regress y indvars2
```

However, users often like to define macros that can be referenced within several dofiles. One way to have macros persist across do-files is to use globals, but globals should generally be reserved for macros that truly are wanted to be available in all contexts. An alternative is to borrow from other programming environments the use of "header" files, which contain preamble code that can be included at the top (or head) of each file of code to make common definitions.

For this purpose, Stata offers the include command, which is similar to run except that all local macro definitions are retained. See the manual entry [P] include for complete details. In the above example, we could have a file called locals.do:

```
local indvars1 "var1 var2"
local indvars2 "var1 var2 var3 var4"

end locals.do ———
```

Then, in any file in which we would like to use these local macros, we can simply type

```
include locals.do
```

and thereafter refer to indvars1, indvars2, etc. If we subsequently want to modify the independent variables in our lists, we need only edit the locals.do file. The changes are automatically carried into other do-files that include that locals.do file.

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This very useful feature can also be used to define directory paths and other programming data that we want to be available in local macros to all our do-files. For instance, a useful definition is

```
local today=string(date("'c(current_date)'","DMY"),"%tdCCYY.NN.DD")
```

which creates a string containing the current date in a lexically ordered format. Including this in a header file, and thence in all do-files, gives a standard way of adding a sortable date suffix to all saved files. You may include more than one file, as well as nesting includes, so that each project can include a project.do file that not only defines project-specific macros but also includes a master.do, which defines more general macros.

In summary, the use of include to call a file containing macro definitions allows one instance of those local (or global) macros to be made easily available to multiple do-files.