# query — Display system parameters

## Description

`query` displays the settings of various Stata parameters.

## Syntax

```
query [ memory | output | interface | graphics | network | update |
        trace | mata | java | putdocx | python | random | unicode | other ]
```

## Remarks and examples

`query` provides more system information than you will ever want to know. You do not need to understand every line of output that `query` produces if all you need is one piece of information. Here is what happens when you type `query`:

```
. query
```

### Memory settings

- `set maxvar 5000  2048-32767; max. vars allowed`
- `set niceness 5   0-10`
- `set min_memory 0  0-1600g`
- `set max_memory .  32m-1600g or .`
- `set segmentsize 32m  1m-32g`
- `set adosize 1000  kilobytes`
- `set max_preservemem 1g  0-1600g`

### Output settings

- `set more        off`
- `set msg         off`
- `set dp          period may be period or comma`
- `set linesize    79  characters`
- `set pagesize    28  lines`
- `set iterlog     on`
- `set level       95  percent confidence intervals`
- `set clevel      95  percent credible intervals`
- `set showbaselevels may be empty, off, on, or all`
- `set showemptycells may be empty, off, on on`
- `set showomitted  may be empty, off, on on`
- `set fvlabel     on`
- `set fwrap       1`
- `set fwrapon word may be word or width`
- `set lstretch    may be empty, off, on on`
set cformat may be empty or a numerical format
set pformat may be empty or a numerical format
set sformat may be empty or a numerical format

set coeftabresults on
set dots on

set logtype smcl may be smcl or text

Interface settings
set dockable on
set floatwindows off
set locksplitters off
set pinnable on
set doublebuffer on

set linegap 1 pixels
set scrollbufsize 200000 characters
set fastscroll on
set reventries 5000 lines

set maxdb 50 dialog boxes

Graphics settings
set graphics on
set autotabgraphs off
set scheme s2color
set printcolor automatic may be automatic, asis, gs1, gs2, gs3
set copycolor automatic may be automatic, asis, gs1, gs2, gs3

Network settings
set checksum off
set timeout1 30 seconds
set timeout2 180 seconds

set httpproxy off
set httpproxyhost
set httpproxyport 80

set httpproxyauth off
set httpproxyuser
set httpproxypw

Update settings
set update_query on
set update_interval 7
set update_prompt on

Trace (programming debugging) settings
set trace off
set tracedepth 32000
set traceexpand on
set tracesep on
set traceindent on
set tracenumber off
set tracehilite
The output is broken into several divisions: memory, output, interface, graphics, network, update, trace, Mata, random, Unicode, and other settings. We will discuss each one in turn.
We generated the output above using Stata/MP for Windows. Here is what happens when we type `query` and we are running Stata/SE for Mac:

```
    . query

Memory settings
    set maxvar 5000  2048-32767; max. vars allowed
    set niceness 5  0-10
    set min_memory 0  0-1600g
    set max_memory .  32m-1600g or .
    set segmentsize 32m  1m-32g
    set adosize 1000  kilobytes

Output settings
    set more off
    set rmsqf off
    set dp period may be period or comma
    set linesize 117 characters
    set pagesize 25 lines

    set iterlog on

    set level 95 percent confidence intervals
    set cleve 95 percent credible intervals

    set showbaselevels may be empty, off, on, or all
    set showemptycells may be empty, off, or on
    set showomitted may be empty, off, or on
    set fvlabel on
    set fvwrap 1
    set fvwrapon word may be word or width

    set lstretch may be empty, off, or on

    set cformat may be empty or a numerical format
    set pformat may be empty or a numerical format
    set sformat may be empty or a numerical format

    set coefabresults on
    set dots on

    set logtype smcl may be smcl or text

    set notifyuser on
    set playsnd off
    set include_bitmap on

Interface settings
    set revkeyboard on
    set varkeyboard on
    set smoothfonts on

    set linegap 1  pixels
    set scrollbufsize 200000 characters
    set reventries 5000 lines

    set maxdb 50  dialog boxes
```
**Graphics settings**
- set graphics on
- set scheme s2color
- set printcolor automatic may be automatic, asis, gs1, gs2, gs3
- set copycolor automatic may be automatic, asis, gs1, gs2, gs3
- set maxbezierpath 0 bezier path elements

**Network settings**
- set checksum off
- set timeout1 30 seconds
- set timeout2 180 seconds
- set httpproxy off
- set httpproxyhost
- set httpproxyport 80
- set httpproxyauth off
- set httpproxyuser
- set httpproxypw

**Update settings**
- set update_query off
- set update_interval 7
- set update_prompt on

**Trace (programming debugging) settings**
- set trace off
- set tracedepth 32000
- set traceexpand on
- set tracesep on
- set traceindent on
- set tracenumber off
- set tracehilite

**Mata settings**
- set matastrict off
- set matalnum off
- set mataoptimize on
- set matafavor space may be space or speed
- set matacache 2000 kilobytes
- set matalibs lmatabase;lmatapss;lmatapostest;lmatame;lmatabase;
  > lmatagsem;lmatapopt;lmatase;lmatada;lmatafc;lmatasp;lmatamcm;lmatamixlog
- set matamofirst off

**Java settings**
- set java_heapmax 2048m
- set java_home C:\Program Files\Stata16\utilities\java\mac-x64\  > jre1.8.0_192/

**putdocx settings**
- set docx_hardbreak off
- set docx_paramode off

**Python settings**
- set python_exec
- set python_userpath

**RNG settings**
- set rng default may be default, mt64, mt64s, or kiss32
- set rngstate XAA00000000000000000000000000000000000000000...
- set rngstream 1 rng stream number
Unicodes settings
set locale_ui en_US
set locale_functions en_US

Other settings
set type float may be float or double
set maxiter 300 max iterations for estimation commands
set searchdefault all may be local, net, or all
set varabbrev on
set emptycells keep may be keep or drop
set fvtrack term may be term or factor
set fvbase on
set processors 1
set odbcmgr iodbc may be iodbc or unixodbc
set odbcdriver unicode may be unicode, ansi, or default
set fredkey

Memory settings
Memory settings indicate how memory is allocated, the maximum number of variables, and the maximum size of a matrix.

For more information, see

maxvar [D] memory
niceness [D] memory
min_memory [D] memory
max_memory [D] memory
segmentsize [D] memory
adosize [P] sysdir
max_preservemem [P] preserve

Output settings
Output settings show how Stata displays output on the screen and in log files.

For more information, see

more [R] more
rmsg [P] rmsg
dp [D] format
linesize [R] log
pagesize [R] more
iterlog [R] set iter
level [R] level
clevel [BAYES] set clevel
showbaselevels [R] set showbaselevels
showemptycells [R] set showbaselevels
showomitted [R] set showbaselevels
fvlabel [R] set showbaselevels
fvwrap [R] set showbaselevels
fvwrapon [R] set showbaselevels
lstretch [R] set
cformat [R] set cformat
Interface settings

Interface settings control how Stata’s interface works.

For more information, see

dockable [R] set
floatwindows [R] set
locksplitters [R] set
pinnable [R] set
doublebuffer [R] set
revkeyboard [R] set
varkeyboard [R] set
smoothfonts [R] set
linegap [R] set
scrollbufsize [R] set
fastscroll [R] set
reventries [R] set
maxdb [R] db

Graphics settings

Graphics settings indicate how Stata’s graphics are displayed.

For more information, see

graphics [G-2] set graphics
autotabgraphs [R] set
scheme [G-2] set scheme
printcolor [G-2] set printcolor
copycolor [G-2] set printcolor
maxbezierpath [R] set

Network settings

Network settings determine how Stata interacts with the Internet.

For more information, see [R] netio.

Update settings

Update settings determine how Stata performs updates.

For more information, see [R] update.
Trace settings

Trace settings adjust Stata’s behavior and are particularly useful in debugging code.
For more information, see [P] trace.

Mata settings

Mata settings affect Mata’s system parameters.
For more information, see [M-3] mata set.

Java settings

Java settings control the Java Runtime Environment.
For more information, see [P] Java utilities.

putdocx settings

putdocx settings control how spacing is handled in blocks of text.
For more information, see [RPT] set docx.

Python settings

Python settings control the version and search paths of Python.
For more information, see [P] python.

Random settings

The random settings set Stata’s random number generators.
For more information, see [R] set rng, [R] set seed (set rngstate), and [R] set rngstream.

Unicode settings

Unicode settings affect Stata’s localization package for the user interface.
For more information, see [P] set locale_ui and [P] set locale_functions.

Other settings

The other settings are a miscellaneous collection.
For more information, see

    type  [D] generate
    maxiter  [R] set iter
    searchdefault  [R] search
    varabbrev  [R] set
    emptycells  [R] set
    fvtrack  [R] set
    fvbase  [R] set
    processors  [R] set
In general, the parameters displayed by `query` can be changed by `set`; see `R set`.

**Also see**

[R] set — Overview of system parameters  
[M-3] mata set — Set and display Mata system parameters  
[P] creturn — Return c-class values