Stata/MP is faster
Much faster

Stata/MP lets you analyze data in one-half to two-thirds the time compared with Stata/SE on inexpensive dual-core laptops and in one-quarter to one-half the time on quad-core desktops and laptops. Stata/MP runs even faster on multiprocessor servers. Stata/MP supports up to 64 cores/processors.

Speed is often most crucial when performing computationally intense estimation procedures. A few of Stata’s estimation procedures, including linear regression, are nearly perfectly parallelized, meaning they run twice as fast on two cores, four times as fast on four cores, eight times as fast on eight cores, and so on. Some estimation commands can be parallelized more than others. Taken at the median, estimation commands run 1.8 times faster on 2 cores, 3.1 times faster on 4 cores, and 4.2 times faster on 8 cores.

Speed can also be important when managing large datasets. Adding new variables is nearly 100% parallelized, and sorting is about 75% parallelized.

Some procedures are not parallelized and some are inherently sequential, meaning they run the same speed in Stata/MP. For a complete assessment of Stata/MP’s performance, including command-by-command statistics, visit stata.com/statamp/report.pdf.
For the largest datasets
Because speed is most important when your problems are big

Stata/MP supports even larger datasets than Stata/SE. Stata/SE can analyze up to 2 billion observations. Stata/MP can analyze 10 to 20 billion observations on the largest computers currently available and is ready to analyze up to 1 trillion observations once computer hardware catches up. Stata/MP also allows 120,000 variables compared with 32,767 variables allowed by Stata/SE.

<table>
<thead>
<tr>
<th></th>
<th>Max. no. of variables</th>
<th>Max. no. of independent variables</th>
<th>Max. no. of observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stata/MP</td>
<td>120,000</td>
<td>65,532</td>
<td>20 billion*</td>
</tr>
<tr>
<td>Stata/SE</td>
<td>32,767</td>
<td>10,998</td>
<td>2.14 billion*</td>
</tr>
<tr>
<td>Stata/IC</td>
<td>2,048</td>
<td>798</td>
<td>2.14 billion*</td>
</tr>
</tbody>
</table>

*The maximum number of observations is limited by the amount of available RAM on your system.

On any platform
Stata/MP is available for the following operating systems:

- Windows (64-bit processors)
- macOS (64-bit Intel processors)
- Linux (64-bit processors)

Which is to say, all platforms are supported by Stata.

To run Stata/MP, you can use a desktop computer with a dual-core or quad-core processor, or you can use a server with multiple processors. Whether a computer has separate processors or one processor with multiple cores makes no difference. More processors or cores make Stata/MP run faster.

For more advice on hardware, see our discussion at stata.com/osmp.

Compatible with all other versions of Stata
Existing scripts just run faster. Analyses do not have to be reformulated or modified in any way. Use the same datasets and commands with Stata/MP, and you get your results faster.

stata.com/statamp