

# MineSight® Speed Test & Hardware Recommendations

Periodically, Mintec Technical Support is asked for recommendations on the “best” hardware to use with MineSight®. Speed-of-calculation comparisons using MineSight® were run on three different hardware generations; four years old, two years old, and new. Calculations were identical between computers and the computers used for speed testing were thoroughly cleaned, defragged, and newly imaged. Calculation comparisons included:

- > MSDART—Reblocking a sub-blocked model
- > Interpolation test1—Series of 10 kriging multi-runs
- > Interpolation test2—Series of 5 kriging multi-runs
- > MSEP—a pit optimization using the Lerchs-Grossmann algorithm with complex slopes

Tests demonstrated a significant performance improvement when using the most current hardware. It is important to note the magnitude of time differences as opposed to processing times (see table below). Note: the time it takes for a new computer to run a given calculation can be 75% less than running it on an older machine.

## Recommended Hardware: Laptop

- Dual-core processor, 2.5+GHz, 800MHz FSB\*
- 4 GB of RAM; 320+GB, 7.2K RPM hard-disk
- 1280 x 1024 15” LCD monitor with 20” LCD dual/external monitor
- OpenGL 1.1 compliant graphics card (NVidia®)
- DVD-ROM drive; USB port

## Recommended Hardware: Workstation/Desktop

- Dual-core processor, 3.16+GHz, 1333MHz FSB\*
- 4 GB of RAM; 300+GB, 15K RPM hard-disk
- 1280 x 1024 20” LCD monitor with 20” LCD second monitor
- OpenGL 1.1 compliant graphics card (NVidia®)
- DVD-ROM drive; USB port

*\*Faster dual-core processor and FSB will enhance performance however multiple dual-/quad-core processors offer no advantage at this time.*



Time is shown in minutes:seconds.tenths of seconds

Computer configuration	MSDART Block model reblock	INTERPOLATION Test 1	INTERPOLATION Test 2	MSEP Complex slopes
Dell M6300 Laptop Intel Core2 Duo CPU T9300 @ 2.5GHz, 4GB RAM (new)	1:54.0	7:42.6	5:34.3	2:30.3
Dell M90 Laptop Dual Core Laptop Intel Core2 7200 @ 2.00GHz, 3.25GB RAM (2 years old)	2:04.7	22:16.3	12:18.5	2:59.0
Dell Desktop Single Core Intel Pentium 4 CPU @ 2.8GHz, 2GB RAM (4 years old)	5:29.4	34:50.3	14: 03.7	4:26.0