



# CINT2000 Result

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**Fujitsu Siemens Computers**  
CELSIUS M450 (Intel Core 2 Duo processor E6400)

SPECint\_rate2000 = 43.9  
SPECint\_rate\_base2000 = 43.5

SPEC license #: 22 Tested by: Fujitsu Siemens Computers Test date: Aug-2006 Hardware Avail: Aug-2006 Software Avail: May-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	107	30.3	2	107	30.3
175.vpr	2	121	26.9	2	116	28.0
176.gcc	2	48.0	53.1	2	48.0	53.1
181.mcf	2	142	29.3	2	137	30.4
186.crafty	2	52.8	44.0	2	52.1	44.5
197.parser	2	118	35.5	2	117	35.8
252.eon	2	46.6	64.7	2	46.6	64.7
253.perlbnk	2	71.2	58.7	2	71.1	58.7
254.gap	2	52.4	48.7	2	51.4	49.7
255.vortex	2	57.4	76.8	2	57.4	76.8
256.bzip2	2	115	30.3	2	115	30.2
300.twolf	2	128	54.2	2	128	54.3

### Hardware

CPU: Intel Core 2 Duo processor E6400  
 CPU MHz: 2133  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1 chip  
 Parallel: No  
 Primary Cache: 32KB(I) + 32KB(D) on chip, per core  
 Secondary Cache: 2048KB(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 4x 1GB PC2-5300 5-5-5 2Rank SDRAM  
 Disk Subsystem: 1 x 160GB SATA 7200 RPM  
 Other Hardware: None

### Software

Operating System: Windows XP Professional, Service Pack 2  
 Compiler: Intel(R) C++ Compiler for 32-bit app., Version 9.1,  
 - Build 20060519Z Package ID: W\_CC\_P\_9.1.025  
 Microsoft Visual Studio .NET 2003 (for libraries)  
 MicroQuill SmartHeap Library, Version 8 (shlW32M.lib)  
 File System: FAT32  
 System State: Default

## Notes/Tuning Information

### Portability flags:

176.gcc: -Dalloca=\_alloca /F10000000  
 186.crafty: -DNT\_i386  
 253.perlbnk: -DSPEC\_CPU2000\_NTOS -DPERLDLL /MT  
 254.gap: -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_MALLOC\_PROTO

### Feedback optimization:

+FDO: PASS1= -Qprof\_gen PASS2= -Qprof\_use

### Baseline Tuning Flags:

for C programs:  
 -fast +FDO shlW32M.lib  
 for C++ program 252.eon:  
 -fast -Qcxx\_features +FDO

### Peak Tuning Flags:

164.gzip: -fast +FDO  
 175.vpr: -fast +FDO  
 176.gcc: basepeak=yes  
 181.mcf: -fast +FDO shlW32M.lib



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## Notes/Tuning Information (Continued)

186.crafty: -fast +FDO  
197.parser: -fast +FDO  
252.eon: -fast -Qcxx\_features +FDO  
253.perlbnk: -fast +FDO shlw32M.lib  
254.gap: -fast +FDO  
255.vortex -fast +FDO shlw32M.lib  
256.bzip2: -fast +FDO  
300.twolf: -fast +FDO shlw32M.lib

### Extra Libraries:

shlw32M.lib = Microquill SmartHeap Library 8  
see [www.microquill.com](http://www.microquill.com)

The system bus runs at 1066 MHz

For information about Fujitsu Siemens Computers in your country please see:  
<http://www.fujitsu-siemens.com/countries>