



# CINT2000 Result

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**Fujitsu Siemens Computers**  
CELSIUS M440, Intel dual-core Pentium D 840

SPECint\_rate2000 = 17.2  
SPECint\_rate\_base2000 = 17.2

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Nov-2005 | Hardware Avail: Jul-2005 | Software Avail: Sep-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	131	12.4	1	131	12.4
175.vpr	1	148	11.0	1	145	11.2
176.gcc	1	61.2	20.8	1	61.7	20.7
181.mcf	1	126	16.6	1	126	16.6
186.crafty	1	84.4	13.7	1	84.5	13.7
197.parser	1	142	14.7	1	142	14.7
252.eon	1	64.6	23.4	1	64.6	23.4
253.perlbnk	1	94.1	22.2	1	94.1	22.2
254.gap	1	62.3	20.5	1	61.8	20.6
255.vortex	1	74.8	29.5	1	74.8	29.5
256.bzip2	1	140	12.4	1	140	12.4
300.twolf	1	189	18.4	1	190	18.3

### Hardware

CPU: Intel dual-core Pentium D processor 840  
 CPU MHz: 3200  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1  
 Parallel: No  
 Primary Cache: 12k micro-ops I + 16KBD on chip, per core  
 Secondary Cache: 1024KB(I+D) on chip, per core  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 4 GB (4x1 GB DDR2-533, 2rank, CL4-4-4, with ECC)  
 Disk Subsystem: Serial ATA 7200 rpm  
 Other Hardware:

### Software

Operating System: Windows XP Professional, Service Pack 2  
 Compiler: Intel(R) C++ Compiler for 32-bit app., Version 9.0,  
 - Build 20050912Z Package ID: W\_CC\_C\_9.0.024  
 Microsoft Visual Studio .NET 2003 (for libraries)  
 MicroQuill SmartHeap Library 7.4  
 File System: NTFS  
 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: -fast +FDO  
 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 7.4  
see [www.microquill.com](http://www.microquill.com)

The system bus runs at 800 MHz

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<http://www.fujitsu-siemens.com/countries>