



# CINT2000 Result

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Fujitsu Siemens Computers  
CELSIUS M440, Intel Pentium 4 630

SPECint2000 = 1493  
SPECint\_base2000 = 1492

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	140	1000	140	998				
175.vpr	1400	135	1040	133	1053				
176.gcc	1100	62.0	1774	62.7	1754				
181.mcf	1800	95.4	1887	95.3	1888				
186.crafty	1000	90.2	1109	90.2	1109				
197.parser	1800	143	1257	143	1259				
252.eon	1300	69.1	1880	69.1	1880				
253.perlbmk	1800	99.3	1813	99.3	1813				
254.gap	1100	66.7	1649	66.2	1663				
255.vortex	1900	74.4	2555	74.3	2556				
256.bzip2	1500	132	1136	132	1135				
300.twolf	3000	195	1536	195	1535				

### Hardware

CPU: Intel Pentium 4 processor 630  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)  
 CPU(s) orderable: 1  
 Parallel: No  
 Primary Cache: 12k micro-ops I + 16KBD on chip  
 Secondary Cache: 2048KB(I+D) on chip  
 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.perlbmk: -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 -Qcxxx\_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

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