



# CINT2000 Result

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Fujitsu Siemens Computers  
CELSIUS M430, Pentium 4 3.4F GHz

SPECint2000 = 1484  
SPECint\_base2000 = 1419

SPEC license #: 22 Tested by: Fujitsu Siemens Computers Test date: Aug-2004 Hardware Avail: Aug-2004 Software Avail: Mar-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	125	1118	125	1118	
175.vpr	1400	143	981	141	990	
176.gcc	1100	59.7	1841	59.7	1843	
181.mcf	1800	146	1233	144	1247	
186.crafty	1000	79.4	1259	79.5	1259	
197.parser	1800	138	1309	137	1311	
252.eon	1300	80.0	1624	66.8	1947	
253.perlbmk	1800	112	1602	103	1744	
254.gap	1100	61.0	1804	61.3	1794	
255.vortex	1900	79.4	2393	79.4	2393	
256.bzip2	1500	139	1082	135	1107	
300.twolf	3000	225	1335	179	1679	

### Hardware

CPU: Intel Pentium 4 (3.4F GHz, 800 MHz bus, Intel EM64T)  
CPU MHz: 3400  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (HT Technology disabled)  
CPU(s) orderable: 1  
Parallel: No  
Primary Cache: 12k micro-ops I + 16KBD on chip  
Secondary Cache: 1024KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 2048 MB (4 512 MB PC2-4200, CL4, DDR2 ECC modules)  
Disk Subsystem: Maxtor 6Y160M0 (Serial ATA 7200 rpm)  
Other Hardware:

### Software

Operating System: Windows XP Professional, Service Pack 1  
Compiler: Intel(R) C++ Compiler, Version 8.0,  
- Build 20040318Z Package ID: W\_CC\_PC\_8.0.048  
Microsoft Visual Studio .NET 7.0 (for libraries)  
MicroQuill SmartHeap Library 6.03a  
File System: FAT32  
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 except 252.eon:  
-QxP -fast -Qansi\_alias +FDO  
for C++ program 252.eon:  
-QxP -fast -GX -GR

#### Peak Tuning Flags:

164.gzip: -QxP -fast -Qansi\_alias -Oa +FDO  
175.vpr: -QxP -fast -Qansi\_alias +FDO  
176.gcc: -QxP -fast -Qansi\_alias +FDO  
181.mcf: -QxP -fast -Qansi\_alias +FDO



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## Notes/Tuning Information (Continued)

```
186.crafty: -QxP -fast -Qansi_alias -Oa +FDO
197.parser: -QxP -fast -Qansi_alias +FDO
252.eon: -QxP -O2 -Qipo +FDO
253.perlbnk: -QxP -fast -Qansi_alias +FDO shlw32M.lib
254.gap: -QxP -fast -Qunroll11 -Zp8 +FDO
255.vortex basepeak=yes
256.bzip2: -fast -Oa -Qunroll11 +FDO
300.twolf: -QxP -fast -O3 +FDO shlw32M.lib
```

### Extra Libraries:

shlw32M.lib = Microquill SmartHeap Library 6.03a  
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>