



CINT2000 Result

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Fujitsu Siemens Computers
CELSIUS M440, Intel Pentium 4 650

SPECint2000 = 1675
SPECint_base2000 = 1673

SPEC license #: 22 Tested by: Fujitsu Siemens Computers Test date: Dec-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	124	1131	124	1128				
175.vpr	1400	121	1161	119	1179				
176.gcc	1100	55.3	1989	55.7	1974				
181.mcf	1800	88.9	2026	88.8	2027				
186.crafty	1000	79.6	1257	79.6	1257				
197.parser	1800	127	1417	127	1419				
252.eon	1300	61.0	2131	61.0	2131				
253.perlbmk	1800	87.9	2048	87.9	2047				
254.gap	1100	59.5	1850	59.0	1866				
255.vortex	1900	66.6	2854	66.6	2852				
256.bzip2	1500	118	1271	118	1270				
300.twolf	3000	172	1740	172	1741				

Hardware

CPU: Intel Pentium 4 processor 650
CPU MHz: 3400
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 -Qcxx_features +FDO
253.perlbmk: -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

The system bus runs at 800 MHz

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