



CINT2000 Result

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Dell
Precision Workstation 650 (2.80 GHz Xeon, 1MB L3 Cache)

SPECint2000 = **1270**
SPECint_base2000 = **1220**

SPEC license #: 55 Tested by: Dell Inc., Round Rock, TX Test date: Jan-2004 Hardware Avail: Feb-2004 Software Avail: Dec-2003

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio | |
|-------------|----------------|--------------|------------|---------|-------|--|
| 164.gzip | 1400 | 120 | 1163 | 121 | 1161 | |
| 175.vpr | 1400 | 165 | 848 | 165 | 848 | |
| 176.gcc | 1100 | 72.0 | 1527 | 72.0 | 1527 | |
| 181.mcf | 1800 | 197 | 913 | 188 | 955 | |
| 186.crafty | 1000 | 90.9 | 1101 | 90.0 | 1111 | |
| 197.parser | 1800 | 160 | 1122 | 160 | 1122 | |
| 252.eon | 1300 | 88.8 | 1465 | 78.1 | 1664 | |
| 253.perlbmk | 1800 | 142 | 1272 | 134 | 1343 | |
| 254.gap | 1100 | 75.1 | 1465 | 75.1 | 1465 | |
| 255.vortex | 1900 | 87.8 | 2165 | 87.8 | 2165 | |
| 256.bzip2 | 1500 | 159 | 945 | 154 | 976 | |
| 300.twolf | 3000 | 261 | 1151 | 211 | 1422 | |

Hardware

CPU: Intel Xeon (533 MHz system bus)
CPU MHz: 2800
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)
CPU(s) orderable: 2
Parallel: No
Primary Cache: 12K(I) micro-ops + 8KB(D) on chip
Secondary Cache: 512KB(I+D) on chip
L3 Cache: 1024KB(I+D) on chip
Other Cache: N/A
Memory: 4 x 512MB ECC CL2-2-2 PC2100 DDR SDRAM
Disk Subsystem: 1 x 18GB U320 SCSI, 10K RPM
Other Hardware:

Software

Operating System: Windows XP Professional SP1
Compiler: Intel C/C++ Compiler 8.0 (20031229Z)
Microsoft Visual Studio .NET (7.0.9466)
File System: NTFS
System State: Default

Notes/Tuning Information

PORTABILITY FLAGS

176.gcc: -Dalloca=_alloca /F10000000
186.crafy: -DNT_i386
253.perlbmk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO

FEEDBACK DIRECTED OPTIMIZATION

ONESTEP=yes
FDO: PASS1=-Qprof_gen PASS2=-Qprof_use

BASE TUNING

C: -QxN -Qipo -O3 +FDO
C++: -QxN -Qipo -GX -GR

PEAK TUNING

164.gzip: -QxN -Qipo -O3 -Oa +FDO
175.vpr: basepeak=yes
176.gcc: basepeak=yes
181.mcf: -QxN -Qipo -O3 +FDO shlw32M.lib
186.crafty: -QxN -Qipo -O3 -Oa +FDO shlw32M.lib
197.parser: basepeak=yes
252.eon: -QxN -Qipo -O3 +FDO
253.perlbmk: -QxN -Qipo -O3 +FDO shlw32M.lib



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Notes/Tuning Information (Continued)

```
254.gap:      basepeak=yes
255.vortex    basepeak=yes
256.bzip2:    -Qipo      -Oa -Qunroll1 +FDO shlw32M.lib
300.twolf:    -QxN -Qipo -O3      +FDO shlw32M.lib
```

EXTRA LIBRARIES

```
shlw32M.lib: MicroQuill SmartHeap Library 7.1
              www.microquill.com
```

NOTES

```
1 CPU Disabled in the BIOS.
Hyper-Threading Technology not enabled.
```