



CINT2000 Result

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Dell
Precision WorkStation 350 (2.8 GHz P4)

SPECint2000 = **1061**
SPECint_base2000 = **1017**

SPEC license #: 55 Tested by: Dell, Round Rock, TX Test date: Nov-2002 Hardware Avail: Nov-2002 Software Avail: Jun-2002

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio | |
|-------------|----------------|--------------|------------|---------|-------|--|
| 164.gzip | 1400 | 134 | 1042 | 121 | 1153 | |
| 175.vpr | 1400 | 242 | 579 | 220 | 637 | |
| 176.gcc | 1100 | 93.7 | 1174 | 92.7 | 1187 | |
| 181.mcf | 1800 | 237 | 761 | 234 | 768 | |
| 186.crafty | 1000 | 92.6 | 1080 | 92.6 | 1080 | |
| 197.parser | 1800 | 187 | 962 | 182 | 992 | |
| 252.eon | 1300 | 106 | 1221 | 90.3 | 1440 | |
| 253.perlbnk | 1800 | 142 | 1266 | 142 | 1266 | |
| 254.gap | 1100 | 83.1 | 1324 | 80.5 | 1366 | |
| 255.vortex | 1900 | 123 | 1544 | 120 | 1587 | |
| 256.bzip2 | 1500 | 185 | 810 | 183 | 820 | |
| 300.twolf | 3000 | 350 | 856 | 344 | 872 | |

Hardware

CPU: Intel Pentium 4 (533 MHz system bus)
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1
 Parallel: No
 Primary Cache: 12K(I) micro-ops + 8KB(D) on chip
 Secondary Cache: 512KB(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 2 x 256MB PC1066-32 ECC RDRAM
 Disk Subsystem: 1 x 20GB Maxtor 7.2K ATA/100
 Other Hardware:

Software

Operating System: Windows XP Professional
 Compiler: Intel C++ Compiler 6.0 (020613Z)
 Microsoft Visual Studio .NET (7.0.9466)
 MicroQuill SmartHeap Library 6.01
 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-DIRECTED OPTIMIZATION

FDO: PASS1= -Qprof_gen PASS2= -Qprof_use

BASE TUNING

C: -Qipo -QxW +FDO shlW32M.lib
 C++: -QxW -GX -GR +FDO

PEAK TUNING

164.gzip: -Qipo -QxW -O3 +FDO
 175.vpr: -Qipo -QxW -O3 +FDO
 176.gcc: -Qipo -QxW -O3 +FDO
 181.mcf: -Qipo -QxW -O3 +FDO shlW32M.lib
 186.crafty: -Qipo -QxW -O3 +FDO
 197.parser: -Qipo -QxW -O3 +FDO
 252.eon: -Qipo -QxW -O3 +FDO
 253.perlbnk: -Qipo -QxW +FDO shlW32M.lib
 254.gap: -Qipo -QaxW -O3 +FDO



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| | |
|--------------------|------|
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Notes/Tuning Information (Continued)

```
255.vortex: -Qwp_ipo -QxW -O3 -Oa +FDO
256.bzip2:  -Qipo -QxW -O3
300.twolf:  -Qipo -QxW -O3 -Oa shlw32M.lib
EXTRA LIBRARIES
shlw32M.lib: MicroQuill SmartHeap Library 6.01
              www.microquill.com
```