



# CINT2000 Result

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**Dell**  
**Precision WorkStation 340 (2.0 GHz P4)**

**SPECint\_rate2000 = 9.05**  
**SPECint\_rate\_base2000 = 8.66**

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	187	8.69	1	167	9.74
175.vpr	1	319	5.10	1	292	5.56
176.gcc	1	126	10.2	1	125	10.2
181.mcf	1	309	6.75	1	310	6.74
186.crafty	1	128	9.07	1	128	9.07
197.parser	1	256	8.17	1	249	8.38
252.eon	1	151	10.00	1	129	11.7
253.perlbnk	1	197	10.6	1	197	10.6
254.gap	1	117	10.9	1	112	11.4
255.vortex	1	166	13.3	1	156	14.2
256.bzip2	1	250	6.97	1	246	7.08
300.twolf	1	474	7.34	1	464	7.50

### Hardware

CPU: Intel Pentium 4 (400 MHz system bus)  
 CPU MHz: 2000  
 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 PC800-40 ECC RDRAM  
 Disk Subsystem: 1 x 10GB Maxtor 7.2K ATA/100  
 Other Hardware:

### Software

Operating System: Windows XP Professional  
 Compiler: Intel C++ Compiler 6.0 (020423Z)  
 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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## 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
```