



# CINT2000 Result

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**Dell**  
**Precision WorkStation 340 (1.8 GHz P4)**

SPECint\_rate2000 = **7.53**  
SPECint\_rate\_base2000 = **7.22**

SPEC license #: 55 | Tested by: Dell, Round Rock, TX | Test date: Sep-2002 | Hardware Avail: Sep-2001 | Software Avail: Jun-2002

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	220	7.38	1	196	8.27
175.vpr	1	405	4.01	1	371	4.38
176.gcc	1	150	8.49	1	151	8.47
181.mcf	1	343	6.09	1	343	6.08
186.crafty	1	149	7.80	1	150	7.75
197.parser	1	319	6.55	1	312	6.70
252.eon	1	168	8.97	1	143	10.5
253.perlbnk	1	227	9.21	1	226	9.23
254.gap	1	132	9.67	1	127	10.1
255.vortex	1	206	10.7	1	194	11.4
256.bzip2	1	298	5.84	1	293	5.94
300.twolf	1	676	5.15	1	666	5.22

### Hardware

CPU: Intel Pentium 4 (400 MHz system bus)  
 CPU MHz: 1800  
 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: 256KB(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
```