



# CINT2000 Result

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**Dell**  
**Precision WorkStation 340 (2.4 GHz P4)**

SPECint\_rate2000 = **10.5**  
SPECint\_rate\_base2000 = **10.1**

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	157	10.3	1	140	11.6
175.vpr	1	281	5.78	1	258	6.29
176.gcc	1	105	12.1	1	104	12.2
181.mcf	1	286	7.30	1	286	7.29
186.crafty	1	107	10.8	1	108	10.8
197.parser	1	219	9.53	1	214	9.77
252.eon	1	126	12.0	1	107	14.0
253.perlbnk	1	167	12.5	1	167	12.5
254.gap	1	99.0	12.9	1	95.4	13.4
255.vortex	1	142	15.5	1	135	16.4
256.bzip2	1	218	7.99	1	214	8.11
300.twolf	1	415	8.38	1	408	8.52

### Hardware

CPU: Intel Pentium 4 (533 MHz system bus)  
CPU MHz: 2400  
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
```