



# CINT2000 Result

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**Dell**  
Precision WorkStation 350 (3.06 GHz P4)

SPECint\_rate2000 = 13.1  
SPECint\_rate\_base2000 = 12.6

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	123	13.2	1	111	14.6
175.vpr	1	231	7.03	1	210	7.75
176.gcc	1	89.0	14.3	1	88.7	14.4
181.mcf	1	233	8.96	1	231	9.05
186.crafty	1	84.8	13.7	1	84.8	13.7
197.parser	1	176	11.9	1	170	12.3
252.eon	1	97.2	15.5	1	82.5	18.3
253.perlbnk	1	130	16.0	1	130	16.0
254.gap	1	77.5	16.5	1	75.2	17.0
255.vortex	1	115	19.2	1	113	19.6
256.bzip2	1	175	9.93	1	174	10.0
300.twolf	1	333	10.4	1	326	10.7

### Hardware

CPU: Intel Pentium 4 (533 MHz system bus)  
CPU MHz: 3066  
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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## 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
```