



# CINT2000 Result

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**Dell**  
**Precision WorkStation 350 (2.4 GHz P4)**

SPECint2000 = **951**  
SPECint\_base2000 = **905**

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	155	903	139	1009	
175.vpr	1400	264	531	240	584	
176.gcc	1100	102	1079	100	1096	
181.mcf	1800	247	730	244	738	
186.crafty	1000	107	939	107	938	
197.parser	1800	211	851	206	876	
252.eon	1300	126	1033	107	1210	
253.perlbnk	1800	163	1103	163	1103	
254.gap	1100	95.3	1154	91.8	1198	
255.vortex	1900	142	1342	129	1476	
256.bzip2	1500	205	732	201	745	
300.twolf	3000	387	776	379	791	

### 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 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
```