



# CINT2000 Result

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

**SPECint2000 = 905**  
**SPECint\_base2000 = 865**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	156	899	139	1004	
175.vpr	1400	283	494	258	542	
176.gcc	1100	105	1045	104	1053	
181.mcf	1800	287	626	287	628	
186.crafty	1000	107	930	108	929	
197.parser	1800	219	821	214	841	
252.eon	1300	126	1032	108	1209	
253.perlbnk	1800	167	1081	166	1081	
254.gap	1100	101	1087	95.7	1149	
255.vortex	1900	142	1339	136	1394	
256.bzip2	1500	222	675	214	700	
300.twolf	3000	415	723	407	737	

### 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)

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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
```