



# CINT2000 Result

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**Dell**  
Precision WorkStation 340 (2.53 GHz P4)

SPECint2000 = **922**  
SPECint\_base2000 = **893**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	154	911	145	964	
175.vpr	1400	274	511	263	532	
176.gcc	1100	104	1058	103	1066	
181.mcf	1800	288	625	285	631	
186.crafty	1000	116	860	116	865	
197.parser	1800	204	883	202	889	
252.eon	1300	112	1162	96.5	1348	
253.perlbmk	1800	154	1171	152	1180	
254.gap	1100	97.4	1130	95.2	1155	
255.vortex	1900	142	1338	130	1456	
256.bzip2	1500	212	709	211	709	
300.twolf	3000	400	750	399	753	

### Hardware

CPU: Intel Pentium 4 (533 MHz system bus)  
 CPU MHz: 2533  
 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 128MB PC800 ECC RDRAM  
 Disk Subsystem: 1 x 10GB Maxtor 7.2K ATA/100  
 Other Hardware:

### Software

Operating System: Windows 2000 Professional (SP2)  
 Compiler: Intel C++ Compiler 5.0.1 (020125Z)  
 Microsoft Visual C++ 6.0 (SP5)  
 MicroQuill SmartHeap Library 5.0  
 File System: NTFS  
 System State: Default

## Notes/Tuning Information

### PORTABILITY FLAGS

176.gcc: -Dalloca=\_alloca /F10000000  
 186.crafty: -DNT\_i386  
 253.perlbmk: -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 +FDO -QxW shlw32M.lib  
 C++: -Qipo -QxW -GX -GR

### PEAK TUNING

164.gzip: -Qipo +FDO -QxW -Oi- -Oa  
 175.vpr: -Qwp\_ipo +FDO -QxW  
 176.gcc: -Qipo +FDO -QxW shlw32M.lib  
 181.mcf: -Qipo +FDO -QxW shlw32M.lib  
 186.crafty: -Qipo +FDO -QxW -Oa shlw32M.lib  
 197.parser: -Qipo +FDO -QxW  
 252.eon: -Qipo +FDO -QxW  
 253.perlbmk: -Qipo +FDO -QxW shlw32M.lib  
 254.gap: -Qipo +FDO -QaxW



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## Notes/Tuning Information (Continued)

```
255.vortex: -Qwp_ipo +FDO -QxW -Oa
256.bzip2:  -Qipo +FDO -QxW shlw32M.lib
300.twolf:  -Qipo +FDO -QxW shlw32M.lib
EXTRA LIBRARIES
shlw32M.lib: MicroQuill SmartHeap Library 5.0
              www.microquill.com
```