



# CINT2000 Result

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**Dell**  
Precision WorkStation 650 (2.8 GHz Xeon)

SPECint\_rate2000 = 21.3  
SPECint\_rate\_base2000 = 20.6

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	135	24.1	2	123	26.4
175.vpr	2	295	11.0	2	280	11.6
176.gcc	2	118	21.7	2	119	21.5
181.mcf	2	445	9.39	2	445	9.39
186.crafty	2	92.7	25.0	2	92.3	25.1
197.parser	2	196	21.3	2	191	21.8
252.eon	2	106	28.5	2	90.0	33.5
253.perlbnk	2	142	29.5	2	142	29.5
254.gap	2	91.7	27.8	2	90.0	28.4
255.vortex	2	129	34.1	2	121	36.3
256.bzip2	2	245	14.2	2	243	14.3
300.twolf	2	399	17.4	2	392	17.7

### Hardware

CPU: Intel Xeon (533 MHz system bus)  
 CPU MHz: 2800  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
 CPU(s) orderable: 1,2  
 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: 4 x 512MB PC2100 CL2-2-2 DDR ECC SDRAM  
 Disk Subsystem: 1 x 36GB Seagate 15K U320  
 Other Hardware:

### Software

Operating System: Windows XP Professional (SP1)  
 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
```