



# CINT2000 Result

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**Dell**  
Precision WorkStation 530 (2.2 GHz Xeon)

SPECint\_rate2000 = 16.8  
SPECint\_rate\_base2000 = 16.4

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	169	19.3	2	167	19.5
175.vpr	2	360	9.03	2	346	9.37
176.gcc	2	144	17.7	2	145	17.6
181.mcf	2	487	8.57	2	487	8.58
186.crafty	2	134	17.3	2	134	17.3
197.parser	2	248	16.9	2	245	17.0
252.eon	2	128	23.5	2	111	27.2
253.perlbnk	2	178	23.4	2	178	23.4
254.gap	2	127	20.2	2	122	21.0
255.vortex	2	171	25.7	2	159	27.7
256.bzip2	2	271	12.8	2	272	12.8
300.twolf	2	516	13.5	2	517	13.5

**Hardware**

CPU: Intel Xeon  
CPU MHz: 2200  
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: 2 x 256MB PC800 ECC RDRAM  
Disk Subsystem: 1 x 36GB Quantum Atlas 10K II U160  
Other Hardware:

**Software**

Operating System: Windows 2000 Professional (SP2)  
Compiler: Intel C++ Compiler 5.0.1 (010922Z)  
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.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 +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.perlbnk: -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
```