



# CINT2000 Result

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**Dell**  
Precision WorkStation 530 (2.0 GHz Xeon)

SPECint\_rate2000 = 15.9  
SPECint\_rate\_base2000 = 15.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	195	16.6	2	170	19.1
175.vpr	2	377	8.62	2	350	9.27
176.gcc	2	160	15.9	2	159	16.0
181.mcf	2	493	8.47	2	492	8.48
186.crafty	2	130	17.8	2	130	17.8
197.parser	2	275	15.2	2	268	15.6
252.eon	2	152	19.9	2	130	23.2
253.perlbnk	2	201	20.8	2	201	20.8
254.gap	2	134	19.0	2	130	19.7
255.vortex	2	178	24.7	2	171	25.8
256.bzip2	2	289	12.0	2	287	12.1
300.twolf	2	548	12.7	2	539	12.9

### Hardware

CPU: Intel Xeon (400 MHz system bus)  
CPU MHz: 2000  
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 PC800-45 ECC RDRAM  
Disk Subsystem: 1 x 18GB Fujitsu Limited 10K U160  
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)

```
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
```