



# CINT2000 Result

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**Dell**  
Precision WorkStation 530 (2.4 GHz Xeon)

SPECint\_rate2000 = 17.7  
SPECint\_rate\_base2000 = 17.1

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

| Benchmark   | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip    | 2           | 165          | 19.7       | 2      | 148     | 22.0  |
| 175.vpr     | 2           | 351          | 9.27       | 2      | 327     | 9.94  |
| 176.gcc     | 2           | 152          | 16.8       | 2      | 150     | 17.1  |
| 181.mcf     | 2           | 490          | 8.53       | 2      | 490     | 8.52  |
| 186.crafty  | 2           | 110          | 21.1       | 2      | 110     | 21.1  |
| 197.parser  | 2           | 245          | 17.1       | 2      | 238     | 17.5  |
| 252.eon     | 2           | 127          | 23.8       | 2      | 108     | 27.9  |
| 253.perlbnk | 2           | 171          | 24.5       | 2      | 171     | 24.4  |
| 254.gap     | 2           | 114          | 22.4       | 2      | 116     | 22.0  |
| 255.vortex  | 2           | 157          | 28.0       | 2      | 154     | 28.7  |
| 256.bzip2   | 2           | 266          | 13.1       | 2      | 262     | 13.3  |
| 300.twolf   | 2           | 510          | 13.7       | 2      | 502     | 13.9  |

### Hardware

CPU: Intel Xeon (400 MHz system bus)  
CPU MHz: 2400  
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
```