



# CINT2000 Result

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## Dell

Precision Workstation 650 (3.06 GHz Xeon, 1MB L3 Cache)

SPECint\_rate2000 = 15.0

SPECint\_rate\_base2000 = 14.4

SPEC license #: 55 | Tested by: Dell, Round Rock, TX | Test date: Jun-2003 | Hardware Avail: Jul-2003 | Software Avail: Apr-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	116	14.0	1	116	14.0
175.vpr	1	154	10.5	1	156	10.4
176.gcc	1	68.1	18.7	1	68.0	18.8
181.mcf	1	224	9.34	1	218	9.59
186.crafty	1	84.4	13.8	1	84.4	13.7
197.parser	1	152	13.7	1	152	13.7
252.eon	1	95.5	15.8	1	82.3	18.3
253.perlbnk	1	133	15.8	1	126	16.6
254.gap	1	68.7	18.6	1	68.7	18.6
255.vortex	1	95.3	23.1	1	95.3	23.1
256.bzip2	1	154	11.3	1	148	11.7
300.twolf	1	255	13.7	1	202	17.2

### Hardware

CPU: Intel Xeon (533 MHz system bus)  
 CPU MHz: 3066  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 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: 1024KB  
 Other Cache: N/A  
 Memory: 4 x 512MB PC2100 CL2-2-2 DDR ECC SDRAM  
 Disk Subsystem: 1 x 36GB 10K U320 SCSI  
 Other Hardware:

### Software

Operating System: Windows XP Professional SP1  
 Compiler: Intel C++ Compiler 7.1 (20030402Z)  
 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

ONESTEP=yes  
 FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_use

### BASE TUNING

C: -QxW -Qipo -O3 +FDO  
 C++: -QxW -Qipo -GX -GR

### PEAK TUNING

164.gzip: -QxW -Qipo -Oa -O3 +FDO  
 175.vpr: -QxW -Qipo -O3 +FDO  
 176.gcc: -QxW -Qipo -O3 +FDO  
 181.mcf: -QxW -Qipo -O3 +FDO shlw32M.lib  
 186.crafty: -QxW -Qipo -O3 +FDO  
 197.parser: -QxW -Qipo -O3 +FDO  
 252.eon: -QxW -Qipo -O3 +FDO  
 253.perlbnk: -QxW -Qipo -O3 +FDO shlw32M.lib



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## Notes/Tuning Information (Continued)

```
254.gap:      basepeak=yes
255.vortex    basepeak=yes
256.bzip2:    -Qipo -Oa -Qunroll1 +FDO
300.twolf:    -Qipo -QxW -O3 -Oa      shlW32M.lib
EXTRA LIBRARIES
shlW32M.lib:  MicroQuill SmartHeap Library 6.01
              www.microquill.com
NOTES:
1 CPU disabled via BIOS setting.
```