



# CINT2000 Result

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## Dell

Precision Workstation 650 (3.20 GHz Xeon, 1MB L3 Cache)

SPECint\_rate2000 = 29.3

SPECint\_rate\_base2000 = 28.1

SPEC license #: 55 | Tested by: Dell Inc., Round Rock, TX | Test date: Jan-2004 | Hardware Avail: Oct-2003 | Software Avail: Dec-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	107	30.3	2	107	30.4
175.vpr	2	179	18.2	2	179	18.2
176.gcc	2	72.8	35.0	2	72.8	35.0
181.mcf	2	309	13.5	2	309	13.5
186.crafty	2	80.2	28.9	2	79.5	29.2
197.parser	2	149	28.0	2	149	28.0
252.eon	2	77.9	38.7	2	68.4	44.1
253.perlbnk	2	127	32.9	2	120	34.9
254.gap	2	76.7	33.3	2	76.7	33.3
255.vortex	2	87.0	50.7	2	87.0	50.7
256.bzip2	2	174	20.0	2	173	20.1
300.twolf	2	260	26.8	2	197	35.3

### Hardware

CPU: Intel Xeon (533 MHz system bus)  
 CPU MHz: 3200  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology disabled)  
 CPU(s) orderable: 2  
 Parallel: No  
 Primary Cache: 12K(I) micro-ops + 8KB(D) on chip  
 Secondary Cache: 512KB(I+D) on chip  
 L3 Cache: 1024KB(I+D) on chip  
 Other Cache: N/A  
 Memory: 4 x 512MB ECC CL2-2-2 PC2100 DDR SDRAM  
 Disk Subsystem: 1 x 36GB U320 SCSI, 10K RPM  
 Other Hardware:

### Software

Operating System: Windows XP Professional SP1  
 Compiler: Intel C/C++ Compiler 8.0 (20031229Z)  
 Microsoft Visual Studio .NET (7.0.9466)  
 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: -QxN -Qipo -O3 +FDO  
 C++: -QxN -Qipo -GX -GR

### PEAK TUNING

164.gzip: -QxN -Qipo -O3 -Oa +FDO  
 175.vpr: basepeak=yes  
 176.gcc: basepeak=yes  
 181.mcf: -QxN -Qipo -O3 +FDO shlw32M.lib  
 186.crafty: -QxN -Qipo -O3 -Oa +FDO shlw32M.lib  
 197.parser: basepeak=yes  
 252.eon: -QxN -Qipo -O3 +FDO  
 253.perlbnk: -QxN -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 shlW32M.lib
300.twolf:    -QxN -Qipo -O3      +FDO shlW32M.lib
EXTRA LIBRARIES
shlW32M.lib:  MicroQuill SmartHeap Library 7.1
              www.microquill.com
```

### NOTES

Hyper-Threading Technology not enabled.