



# CINT2000 Result

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**Dell**

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

SPECint\_rate2000 = 15.9

SPECint\_rate\_base2000 = 15.3

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	110	14.7	1	110	14.7
175.vpr	1	155	10.5	1	155	10.5
176.gcc	1	67.3	19.0	1	67.3	19.0
181.mcf	1	184	11.3	1	181	11.5
186.crafty	1	83.1	14.0	1	82.2	14.1
197.parser	1	147	14.2	1	147	14.2
252.eon	1	81.0	18.6	1	71.2	21.2
253.perlbnk	1	131	15.9	1	123	17.0
254.gap	1	69.1	18.5	1	69.1	18.5
255.vortex	1	82.6	26.7	1	82.6	26.7
256.bzip2	1	148	11.8	1	145	12.0
300.twolf	1	243	14.3	1	195	17.9

### Hardware

CPU: Intel Xeon (533 MHz system bus)  
CPU MHz: 3066  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 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: 1024(I+D) on chip  
Other Cache: N/A  
Memory: 4 x 512MB ECC CL2-2-2 PC2100 DDR SDRAM  
Disk Subsystem: 1 x 18GB 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

### GENERAL

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

### 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

### 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

1 CPU Disabled in the BIOS.  
Hyper-Threading Technology not enabled.