



# CINT2000 Result

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**Dell**  
PowerEdge 2650 (3.2 GHz Xeon, 1MB L3)

SPECint\_rate2000 = 15.1  
SPECint\_rate\_base2000 = 14.4

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	112	14.5	1	112	14.6
175.vpr	1	160	10.1	1	160	10.1
176.gcc	1	70.1	18.2	1	69.7	18.3
181.mcf	1	231	9.05	1	229	9.10
186.crafty	1	81.3	14.3	1	81.3	14.3
197.parser	1	151	13.9	1	151	13.9
252.eon	1	91.9	16.4	1	79.2	19.0
253.perlbnk	1	129	16.1	1	123	17.0
254.gap	1	67.4	18.9	1	67.4	18.9
255.vortex	1	98.6	22.4	1	98.6	22.4
256.bzip2	1	156	11.1	1	150	11.6
300.twolf	1	254	13.7	1	184	18.9

### Hardware

CPU: Intel Pentium Xeon (533 MHz system bus)  
CPU MHz: 3200  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)  
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(I+D) on chip  
Other Cache: N/A  
Memory: 4 X 512MB DDR266  
Disk Subsystem: 1 x 17GB Ultra3 Seagate SCSI  
Other Hardware:

### Software

Operating System: Windows 2000 Server (SP2)  
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.crafy: -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: -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: PASS1= -Qprof\_gen PASS2= -Qipo -Qprof\_use -QxW -O3  
197.parser: -QxW -Qipo -O3 +FDO  
252.eon: PASS1= -Qprof\_gen PASS2= -Qipo -Qprof\_use -QxW -O3  
253.perlbnk: -QxW -Qipo -O3 +FDO shlw32M.lib  
254.gap: basepeak=yes



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## Notes/Tuning Information (Continued)

```
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
ONESTEP=YES is set for all benchmarks
Hyper-Threading Technology disabled in BIOS
```