



# CINT2000 Result

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**Dell**  
**PowerEdge 2650 (3.2GHz Xeon, 2MB L3)**

**SPECint\_rate2000 = 16.5**  
**SPECint\_rate\_base2000 = 16.0**

SPEC license #: 55 | Tested by: Dell, Round Rock, TX | Test date: Jan-2004 | Hardware Avail: Feb-2004 | 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	129	12.6	1	129	12.6
176.gcc	1	65.2	19.6	1	65.1	19.6
181.mcf	1	175	11.9	1	172	12.2
186.crafy	1	80.1	14.5	1	80.3	14.5
197.parser	1	139	15.1	1	139	15.1
252.eon	1	91.9	16.4	1	79.2	19.1
253.perlbnk	1	126	16.6	1	121	17.3
254.gap	1	66.5	19.2	1	66.5	19.2
255.vortex	1	91.2	24.2	1	91.2	24.2
256.bzip2	1	129	13.5	1	123	14.2
300.twolf	1	191	18.2	1	180	19.3

### Hardware

CPU: Intel Xeon  
 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: 2048KB(I+D) on chip  
 Other Cache: N/A  
 Memory: 4 x 1024MB ECC DDR266 SDRAM  
 Disk Subsystem: 1 x 36GB Seagate Cheetha 15K U320 SCSI  
 Other Hardware:

### Software

Operating System: Windows 2000 Advanced 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.crafy: 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
```