



# CINT2000 Result

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

SPECint\_rate2000 = 31.5

SPECint\_rate\_base2000 = 30.7

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	2	113	28.9	2	112	29.0
175.vpr	2	134	24.3	2	134	24.3
176.gcc	2	68.3	37.4	2	68.9	37.1
181.mcf	2	230	18.2	2	222	18.8
186.crafy	2	80.6	28.8	2	80.4	28.8
197.parser	2	140	29.8	2	140	29.9
252.eon	2	91.9	32.8	2	79.1	38.1
253.perlbnk	2	125	33.4	2	122	34.3
254.gap	2	74.7	34.2	2	74.7	34.2
255.vortex	2	94.3	46.8	2	94.3	46.8
256.bzip2	2	132	26.4	2	126	27.6
300.twolf	2	192	36.2	2	180	38.6

### Hardware

CPU: Intel Xeon  
 CPU MHz: 3200  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 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
```