



# CINT2000 Result

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**Dell**  
**PowerEdge 6650 (2.8 GHz Xeon MP)**

SPECint\_rate2000 = 27.0

SPECint\_rate\_base2000 = 26.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	130	24.9	2	130	25.1
175.vpr	2	155	20.9	2	155	21.0
176.gcc	2	82.3	31.0	2	81.7	31.2
181.mcf	2	285	14.6	2	277	15.1
186.crafty	2	91.4	25.4	2	91.4	25.4
197.parser	2	163	25.7	2	163	25.7
252.eon	2	105	28.7	2	90.6	33.3
253.perlbnk	2	144	29.0	2	139	30.1
254.gap	2	89.5	28.5	2	89.5	28.5
255.vortex	2	109	40.4	2	109	40.4
256.bzip2	2	154	22.7	2	147	23.6
300.twolf	2	218	31.9	2	207	33.6

### Hardware

CPU: Intel Xeon MP (400 MHz system bus)  
 CPU MHz: 2800  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology disabled)  
 CPU(s) orderable: 1,2,4  
 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 DDR200  
 Disk Subsystem: 1 x 36GB SEAGATE ST336706LC  
 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  
 NTFS  
 File System:  
 System State:

Hyper-Threading Technology disabled using BIOS switch. Additional CPUs disabled using /numproc flag in Windows boot.ini file.

## 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: -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: -QxW -Qipo -O3 +FDO  
 197.parser: -QxW -Qipo -O3 +FDO  
 252.eon: -QxW -Qipo -O3 +FDO  
 253.perlbnk: -QxW -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 -Qunroll11 +FDO
300.twolf:    -Qipo -QxW -O3 -Oa      shlW32M.lib
EXTRA LIBRARIES
shlW32M.lib:  MicroQuill SmartHeap Library 6.01
              www.microquill.com
```