



# CINT2000 Result

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**Dell**  
PowerEdge 6950 (AMD Opteron (TM) 8220SE)

SPECint\_rate2000 = 174  
SPECint\_rate\_base2000 = 159

SPEC license #: 55 | Tested by: Dell, Round Rock, TX | Test date: Oct-2006 | Hardware Avail: Dec-2006 | Software Avail: Apr-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	93.0	140	8	93.0	140
175.vpr	8	103	126	8	102	127
176.gcc	8	55.8	183	8	56.1	182
181.mcf	8	202	82.5	8	157	106
186.crafty	8	54.6	170	8	48.7	191
197.parser	8	110	152	8	111	150
252.eon	8	48.3	250	8	37.2	325
253.perlbnk	8	89.5	187	8	89.5	187
254.gap	8	59.1	173	8	59.1	173
255.vortex	8	75.9	232	8	63.2	279
256.bzip2	8	115	121	8	111	126
300.twolf	8	168	166	8	135	207

### Hardware

CPU: AMD Opteron (TM) 8220SE  
 CPU MHz: 2800  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip  
 CPU(s) orderable: 2,4  
 Parallel: No  
 Primary Cache: 64KB(I) + 64KB(D) on chip, per core  
 Secondary Cache: 1MB(I+D) on chip, per core  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 32GB (16 x 2GB PC2-5300P CL5)  
 Disk Subsystem: 1 x 73GB 15K SAS  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
 Compiler: Intel C++ Compiler for 32-bit applications, (version 9.1 Build 20060323Z) Microsoft Visual Studio .NET 7.0.9466 (for libraries) MicroQuill Smartheap Library 8.0  
 File System: NTFS  
 System State: Default

## Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning for C programs: -fast -arch:SSE2 -Oi- +FDO ONESTEP=yes
Base tuning for C++ programs: -fast -Qcxx_features -arch:SSE2 +FDO ONESTEP=yes
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
Peak tuning:
 164.gzip: basepeak=yes
 175.vpr: -fast -arch:SSE2 -Qoption,c,-ip_ninl_max_stats=2000
          -Qoption,c,-ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes
 176.gcc: -fast -arch:SSE2 -Oi- -Qunroll3 +FDO
 181.mcf: -O3 -Qipo -QaxN +FDO ONESTEP=yes shlw32M.lib
 186.crafty: -fast -arch:SSE2 +FDO ONESTEP=yes
 197.parser: -arch:SSE2 -Oi- -Qipo +FDO ONESTEP=yes
 252.eon: -fast -arch:SSE2 -Qansi_alias -Qoption,c,-ip_ninl_max_stats=2000
          -Qoption,c,-ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes
 253.perlbnk: basepeak=yes
 254.gap: basepeak=yes
```



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## Notes/Tuning Information (Continued)

```
255.vortex: -fast -arch:SSE2 -Oi- -Qoption,c,-ip_ninl_max_stats=2000
            -Qoption,c,-ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes shlw32M.lib
256.bzip2:  -O3 -Qipo -QaxN -Qunroll2 shlw32M.lib
300.twolf:  -fast -arch:SSE2 -Qansi_alias +FDO ONESTEP=yes shlw32M.lib
```

Other Configuration Notes  
The start /b /wait /affinity command is used to bind CPU(s) to processes.