



CINT2000 Result

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Dell
PowerEdge SC1435 (AMD Opteron (TM) 2220SE)

SPECint_rate2000 = **89.7**
SPECint_rate_base2000 = **82.2**

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	91.1	71.3	4	91.1	71.3
175.vpr	4	100	64.8	4	99.3	65.4
176.gcc	4	53.4	95.6	4	53.7	95.0
181.mcf	4	183	45.7	4	141	59.3
186.crafty	4	54.5	85.1	4	48.4	95.9
197.parser	4	107	78.2	4	108	77.4
252.eon	4	48.3	125	4	37.2	162
253.perlbnk	4	86.5	96.6	4	86.5	96.6
254.gap	4	56.8	89.9	4	56.8	89.9
255.vortex	4	72.2	122	4	61.1	144
256.bzip2	4	110	63.0	4	106	65.6
300.twolf	4	164	84.9	4	134	104

Hardware

CPU: AMD Opteron (TM) 2220SE
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2
 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: 16GB (8 x 2GB PC2-5300P CL5)
 Disk Subsystem: 1 x 80GB 7.2K SATA
 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.