



CINT2000 Result

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Hewlett-Packard Company
ProLiant BL465c (AMD Opteron (TM) 2220)

SPECint_rate2000 = 45.3
SPECint_rate_base2000 = 41.4

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Nov-2006 Hardware Avail: Jan-2007 Software Avail: Oct-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	90.6	35.9	2	90.6	35.9
175.vpr	2	98.8	32.9	2	97.7	33.3
176.gcc	2	54.3	47.0	2	54.0	47.3
181.mcf	2	181	23.0	2	140	29.9
186.crafty	2	54.4	42.7	2	48.4	47.9
197.parser	2	106	39.5	2	106	39.5
252.eon	2	47.5	63.5	2	37.3	80.8
253.perlbnk	2	87.4	47.8	2	87.4	47.8
254.gap	2	56.2	45.4	2	56.2	45.4
255.vortex	2	70.5	62.5	2	59.2	74.5
256.bzip2	2	107	32.4	2	103	33.7
300.twolf	2	163	42.7	2	130	53.5

Hardware

CPU: AMD Opteron (TM) 2220
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 Parallel: No
 Primary Cache: 64 KB I + 64 KB D on chip per core
 Secondary Cache: 1 MB I+D on chip per core
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 8 GB (4x2 GB PC2-5300P CL5.0)
 Disk Subsystem: 1x36 GB 10 K SAS
 Other Hardware:

Software

Operating System: Windows Server 2003 Enterprise SP1
 Compiler: Intel C++ Compiler for 32-bit applications, (version 9.1 Build 20060927Z)
 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
```

BIOS Configuration Notes
Node Interleaving Disabled

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