



CINT2000 Result

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Hewlett-Packard Company
ProLiant BL25p G2 (AMD Opteron (TM) 2220SE)

SPECint_rate2000 = 45.4
SPECint_rate_base2000 = 41.5

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

| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip | 2 | 90.5 | 35.9 | 2 | 90.5 | 35.9 |
| 175.vpr | 2 | 98.7 | 32.9 | 2 | 97.5 | 33.3 |
| 176.gcc | 2 | 53.3 | 47.8 | 2 | 53.9 | 47.3 |
| 181.mcf | 2 | 181 | 23.1 | 2 | 139 | 30.0 |
| 186.crafty | 2 | 54.5 | 42.6 | 2 | 48.6 | 47.7 |
| 197.parser | 2 | 106 | 39.4 | 2 | 106 | 39.5 |
| 252.eon | 2 | 49.0 | 61.6 | 2 | 37.3 | 81.0 |
| 253.perlbnk | 2 | 86.6 | 48.2 | 2 | 86.6 | 48.2 |
| 254.gap | 2 | 55.2 | 46.2 | 2 | 55.2 | 46.2 |
| 255.vortex | 2 | 70.8 | 62.2 | 2 | 59.4 | 74.2 |
| 256.bzip2 | 2 | 108 | 32.2 | 2 | 104 | 33.6 |
| 300.twolf | 2 | 161 | 43.2 | 2 | 131 | 53.2 |

Hardware

CPU: AMD Opteron (TM) 2220SE
 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 20060816Z)
 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.