



CINT2000 Result

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Hewlett-Packard Company
ProLiant BL25p G2 (AMD Opteron (TM) 2218)

SPECint2000 = 1864
SPECint_base2000 = 1723

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	96.9	1445	96.9	1445	[Bar chart showing ratio 1445]			
175.vpr	1400	101	1393	99.3	1411	[Bar chart showing ratio 1411]			
176.gcc	1100	56.1	1962	57.1	1927	[Bar chart showing ratio 1927]			
181.mcf	1800	155	1160	125	1439	[Bar chart showing ratio 1439]			
186.crafty	1000	59.6	1678	52.9	1889	[Bar chart showing ratio 1889]			
197.parser	1800	111	1624	112	1608	[Bar chart showing ratio 1608]			
252.eon	1300	52.2	2492	39.8	3264	[Bar chart showing ratio 3264]			
253.perlbnk	1800	95.2	1892	95.2	1892	[Bar chart showing ratio 1892]			
254.gap	1100	57.9	1901	57.9	1901	[Bar chart showing ratio 1901]			
255.vortex	1900	72.1	2634	62.2	3053	[Bar chart showing ratio 3053]			
256.bzip2	1500	112	1341	107	1399	[Bar chart showing ratio 1399]			
300.twolf	3000	173	1733	146	2049	[Bar chart showing ratio 2049]			

Hardware

CPU: AMD Opteron (TM) 2218
CPU MHz: 2600
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 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
```

BIOS Configuration Notes
Node Interleaving Disabled

Other Configuration Notes
start /b /wait /affinity used to bind CPU(s)