



# CINT2000 Result

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

SPECint\_rate2000 = **90.3**  
SPECint\_rate\_base2000 = **82.4**

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	4	91.4	71.1	4	91.4	71.1
175.vpr	4	98.8	65.8	4	97.7	66.5
176.gcc	4	54.0	94.5	4	54.3	94.1
181.mcf	4	183	45.6	4	140	59.5
186.crafty	4	54.4	85.3	4	48.5	95.7
197.parser	4	106	78.7	4	106	78.7
252.eon	4	49.1	123	4	37.3	162
253.perlbnk	4	87.3	95.7	4	87.3	95.7
254.gap	4	56.1	91.0	4	56.1	91.0
255.vortex	4	71.5	123	4	59.7	148
256.bzip2	4	109	64.0	4	105	66.3
300.twolf	4	163	85.3	4	130	107

### 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 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: 16 GB (8x2 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.