



# CINT2000 Result

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Hewlett-Packard Company  
ProLiant BL35p (AMD Opteron (TM) 275)

SPECint\_rate2000 = 66.8  
SPECint\_rate\_base2000 = 64.5

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Aug-2005 Hardware Avail: Jun-2005 Software Avail: Jun-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	117	55.4	4	117	55.4
175.vpr	4	122	53.2	4	118	54.8
176.gcc	4	69.6	73.3	4	68.8	74.2
181.mcf	4	240	34.8	4	192	43.6
186.crafty	4	69.6	66.7	4	63.1	73.5
197.parser	4	134	62.4	4	134	62.5
252.eon	4	60.5	99.6	4	55.2	109
253.perlbnk	4	123	67.9	4	123	67.9
254.gap	4	74.9	68.1	4	96.3	53.0
255.vortex	4	85.6	103	4	85.1	104
256.bzip2	4	135	51.5	4	132	52.6
300.twolf	4	204	68.2	4	169	82.4

### Hardware

CPU: AMD Opteron (TM) 275  
 CPU MHz: 2200  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 1,2  
 Parallel: No  
 Primary Cache: 64KBI + 64KBD (on chip) per core  
 Secondary Cache: 1024KB(I+D) (on chip) per core  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 4x2048MB PC3200 CL3.0  
 Disk Subsystem: 1x60GB ATA100 5400RPM  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
 Compiler: Intel C++ Compiler for 32-bit applications, (Version 8.0 Build 20040318Z)  
 Microsoft Visual Studio .NET 7.0.9466 (for libraries)  
 MicroQuill Smartheap Library 7.0  
 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 -GX -GR +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: -fast -QaxN +FDO ONESTEP=yes
 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:SSE -Oi- -Qoption,c,-ip\_ninl\_max\_stats=2000  
-Qoption,c,-ip\_ninl\_max\_total\_stats=4500 +FDO shlw32M.lib ONESTEP=yes  
256.bzip2: -fast -Qunroll2  
300.twolf: -fast -arch:SSE2 -Qansi\_alias +FDO shlw32M.lib ONESTEP=yes  
BIOS Configuration Notes  
Node Interleaving Disabled  
Other Configuration Notes  
The start /b /wait /affinity command is used to bind CPU(s) to processes.