



# CINT2000 Result

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Hewlett-Packard Company  
ProLiant DL145 G2 (AMD Opteron (TM) 285)

SPECint\_rate2000 = 80.9  
SPECint\_rate\_base2000 = 76.4

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Feb-2006 Hardware Avail: Mar-2006 Software Avail: Nov-2005

| Benchmark   | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip    | 4           | 98.9         | 65.7       | 4      | 98.9    | 65.7  |
| 175.vpr     | 4           | 104          | 62.5       | 4      | 100     | 64.6  |
| 176.gcc     | 4           | 59.2         | 86.2       | 4      | 58.6    | 87.2  |
| 181.mcf     | 4           | 201          | 41.5       | 4      | 160     | 52.3  |
| 186.crafty  | 4           | 58.6         | 79.1       | 4      | 53.3    | 87.1  |
| 197.parser  | 4           | 113          | 74.2       | 4      | 112     | 74.3  |
| 252.eon     | 4           | 49.9         | 121        | 4      | 45.8    | 132   |
| 253.perlbnk | 4           | 104          | 79.9       | 4      | 104     | 79.9  |
| 254.gap     | 4           | 64.3         | 79.4       | 4      | 64.3    | 79.4  |
| 255.vortex  | 4           | 73.4         | 120        | 4      | 72.0    | 122   |
| 256.bzip2   | 4           | 113          | 61.6       | 4      | 112     | 62.3  |
| 300.twolf   | 4           | 172          | 80.8       | 4      | 142     | 97.8  |

### Hardware

CPU: AMD Opteron (TM) 285  
 CPU MHz: 2600  
 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: 8x2048MB PC3200 CL3.0  
 Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
 Compiler: Intel C++ Compiler 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:SSE2 -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.