



# CINT2000 Result

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Hewlett-Packard Company  
ProLiant DL145 G2 (AMD Opteron (TM) 254)

SPECint\_rate2000 = 22.3  
SPECint\_rate\_base2000 = 21.2

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Dec-2005 Hardware Avail: Sep-2005 Software Avail: Nov-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	90.9	17.9	1	90.9	17.9
175.vpr	1	94.5	17.2	1	91.5	17.7
176.gcc	1	54.0	23.6	1	53.7	23.8
181.mcf	1	151	13.9	1	126	16.5
186.crafty	1	54.5	21.3	1	49.7	23.3
197.parser	1	104	20.1	1	104	20.1
252.eon	1	46.3	32.5	1	42.4	35.5
253.perlbnk	1	95.5	21.9	1	95.5	21.9
254.gap	1	56.5	22.6	1	56.5	22.6
255.vortex	1	67.5	32.6	1	67.9	32.5
256.bzip2	1	103	16.9	1	101	17.2
300.twolf	1	160	21.7	1	133	26.2

### Hardware

CPU: AMD Opteron (TM) 254  
CPU MHz: 2800  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 64KBI + 64KBD on chip  
Secondary Cache: 1024KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4x2048MB 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

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