



# CINT2000 Result

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**Hewlett-Packard Company**  
ProLiant DL385 (AMD Opteron (TM) 254)

SPECint2000 = 1914  
SPECint\_base2000 = 1817

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	91.1	1536	91.1	1536	
175.vpr	1400	94.9	1476	91.9	1524	
176.gcc	1100	53.8	2045	53.2	2068	
181.mcf	1800	152	1180	127	1419	
186.crafty	1000	54.8	1824	49.9	2006	
197.parser	1800	104	1730	104	1732	
252.eon	1300	47.0	2765	43.1	3018	
253.perlbnk	1800	96.8	1860	96.8	1860	
254.gap	1100	56.7	1942	56.7	1942	
255.vortex	1900	68.0	2796	67.4	2819	
256.bzip2	1500	104	1449	102	1467	
300.twolf	3000	162	1851	133	2253	

### 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 20031211Z  
 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

Standard Performance Evaluation Corporation

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http://www.spec.org



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## Notes/Tuning Information (Continued)

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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
/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment.
```