



# CINT2000 Result

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

SPECint\_rate2000 = 44.3  
SPECint\_rate\_base2000 = 42.1

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	91.5	35.5	2	91.5	35.5
175.vpr	2	95.1	34.2	2	91.9	35.3
176.gcc	2	54.4	46.9	2	53.8	47.5
181.mcf	2	154	27.0	2	128	32.6
186.crafty	2	54.8	42.3	2	49.8	46.6
197.parser	2	104	40.1	2	104	40.2
252.eon	2	46.7	64.6	2	43.2	69.8
253.perlbnk	2	97.3	42.9	2	97.3	42.9
254.gap	2	56.8	44.9	2	56.8	44.9
255.vortex	2	67.8	65.0	2	67.8	65.1
256.bzip2	2	104	33.5	2	102	34.0
300.twolf	2	162	43.0	2	133	52.5

### Hardware

CPU: AMD Opteron (TM) 254  
CPU MHz: 2800  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/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 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



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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.