



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL385 (AMD Opteron (TM) 275)

SPECint2000 = 1539
SPECint_base2000 = 1465

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	115	1213	115	1213	[Bar chart showing ratio 1213]			
175.vpr	1400	116	1205	112	1248	[Bar chart showing ratio 1248]			
176.gcc	1100	67.5	1631	66.7	1648	[Bar chart showing ratio 1648]			
181.mcf	1800	173	1039	146	1236	[Bar chart showing ratio 1236]			
186.crafty	1000	69.7	1434	63.4	1576	[Bar chart showing ratio 1576]			
197.parser	1800	130	1386	130	1387	[Bar chart showing ratio 1387]			
252.eon	1300	59.7	2176	54.8	2374	[Bar chart showing ratio 2374]			
253.perlbnk	1800	122	1478	122	1478	[Bar chart showing ratio 1478]			
254.gap	1100	70.8	1554	70.8	1554	[Bar chart showing ratio 1554]			
255.vortex	1900	84.1	2260	83.7	2270	[Bar chart showing ratio 2270]			
256.bzip2	1500	127	1181	125	1198	[Bar chart showing ratio 1198]			
300.twolf	3000	201	1489	170	1769	[Bar chart showing ratio 1769]			

Hardware

CPU: AMD Opteron (TM) 275
 CPU MHz: 2200
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
 CPU(s) orderable: 1,2
 Parallel: No
 Primary Cache: 64KBI + 64KBD on chip
 Secondary Cache: 1024KB(I+D) on chip per core
 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 -arch:SSE2 -GX -GR ONESTEP=yes
Portability flags:
 176.gcc: -Dalloca=_alloca /F10000000
 186.crafy: -DNT_i386
 253.perlbnk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
 254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
Peak tuning:
 164.gzip: -fast -arch:SSE2 +FDO shlw32M.lib ONESTEP=yes
 175.vpr: -fast -arch:SSE2 -Qoption,c,-ip_ninl_max_stats=2000
          -Qoption,c,-ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes
          basepeak=yes
 176.gcc: -fast -QaxN +FDO ONESTEP=yes
 181.mcf: -fast -QxW + FDO ONESTEP=yes
 186.crafty: -fast -QxW + 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: -Qipo -arch:SSE2 +FDO shlw32M.lib ONESTEP=yes
 254.gap: -fast -arch:SSE2 -Oi- -Oa -Qoption,c,-ip_ninl_max_stats=500
```



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Notes/Tuning Information (Continued)

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255.vortex:      -Qoption,c,-ip_ninl_max_total_stats=3000 +FDO ONESTEP=yes
                  -fast -arch:SSE -Oi- -Qoption,c,-ip_ninl_max_stats=2000
256.bzip2:       -Qoption,c,-ip_ninl_max_total_stats=4500 +FDO shlw32M.lib ONESTEP=yes
                  -fast -Qunroll2
300.twolf:       -QxW -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
Other Configuration Notes
/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment.
BIOS Configuration Notes
Node Interleaving Disabled
```