



CINT2000 Result

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

SPECint_rate2000 = 34.6
SPECint_rate_base2000 = 32.8

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	117	27.9	2	117	27.9
175.vpr	2	120	27.0	2	117	27.9
176.gcc	2	68.5	37.3	2	67.7	37.7
181.mcf	2	226	18.5	2	180	23.3
186.crafty	2	69.7	33.3	2	63.3	36.7
197.parser	2	131	31.8	2	131	31.9
252.eon	2	59.5	50.6	2	54.9	54.9
253.perlbnk	2	123	34.1	2	123	34.1
254.gap	2	75.2	34.0	2	75.2	34.0
255.vortex	2	84.6	52.1	2	84.1	52.4
256.bzip2	2	131	26.5	2	129	26.9
300.twolf	2	203	34.3	2	169	41.2

Hardware

CPU: AMD Opteron (TM) 275
 CPU MHz: 2200
 FPU: Integrated
 CPU(s) enabled: 2 cores, 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.crafty: -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)

```
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
BIOS Configuration Notes
Node Interleaving Disabled
```