



CINT2000 Result

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Hewlett-Packard Company
ProLiant BL25p (AMD Opteron (TM) 275)

SPECint_rate2000 = 67.6
SPECint_rate_base2000 = 64.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	119	54.5	4	119	54.5
175.vpr	4	123	53.0	4	119	54.7
176.gcc	4	70.2	72.7	4	69.6	73.3
181.mcf	4	231	36.1	4	184	45.4
186.crafty	4	70.7	65.6	4	64.4	72.0
197.parser	4	134	62.4	4	134	62.3
252.eon	4	61.1	98.7	4	56.0	108
253.perlbnk	4	127	65.9	4	127	65.9
254.gap	4	76.0	67.2	4	76.0	67.2
255.vortex	4	86.2	102	4	86.1	102
256.bzip2	4	136	51.0	4	134	52.0
300.twolf	4	207	67.4	4	172	81.0

Hardware

CPU: AMD Opteron (TM) 275
CPU MHz: 2200
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 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: 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 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: -arch:SSE2 -Oi- -Qipo +FDO ONESTEP=yes
 197.parser: -fast -arch:SSE2 -Qansi_alias -Qoption,c,-ip_ninl_max_stats=2000
 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
```