



CINT2000 Result

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Hewlett-Packard Company
ProLiant BL35p (AMD Opteron (TM) 280)

SPECint_rate2000 = 37.3

SPECint_rate_base2000 = 35.3

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Feb-2006 Hardware Avail: Mar-2006 Software Avail: Nov-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	107	30.4	2	107	30.4
175.vpr	2	112	29.0	2	108	29.9
176.gcc	2	63.0	40.5	2	63.0	40.5
181.mcf	2	218	19.1	2	174	24.0
186.crafty	2	63.9	36.3	2	58.0	40.0
197.parser	2	122	34.3	2	123	33.9
252.eon	2	54.3	55.5	2	49.0	61.6
253.perlbnk	2	115	36.3	2	115	36.3
254.gap	2	69.5	36.7	2	69.5	36.7
255.vortex	2	78.0	56.5	2	77.4	56.9
256.bzip2	2	124	28.1	2	121	28.8
300.twolf	2	185	37.6	2	155	44.9

Hardware

CPU: AMD Opteron (TM) 280
CPU MHz: 2400
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) per core
Secondary Cache: 1024KB(I+D) (on chip) per core
L3 Cache: N/A
Other Cache: N/A
Memory: 2x2048MB 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 -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.