



CINT2000 Result

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

SPECint_rate2000 = 74.3
SPECint_rate_base2000 = 70.2

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	4	107	60.5	4	107	60.5
175.vpr	4	112	57.9	4	109	59.6
176.gcc	4	63.5	80.3	4	63.6	80.2
181.mcf	4	221	37.8	4	176	47.4
186.crafty	4	63.8	72.7	4	57.9	80.2
197.parser	4	124	67.4	4	123	67.7
252.eon	4	54.4	111	4	49.1	123
253.perlbnk	4	115	72.4	4	115	72.4
254.gap	4	69.0	74.0	4	69.0	74.0
255.vortex	4	78.5	112	4	77.9	113
256.bzip2	4	125	55.7	4	123	56.4
300.twolf	4	187	74.5	4	155	90.0

Hardware

CPU: AMD Opteron (TM) 280
CPU MHz: 2400
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) per core
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 -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.