



CINT2000 Result

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

SPECint_rate2000 = 19.3
SPECint_rate_base2000 = 18.4

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
35	30	25	20	15	10	5					
					164.gzip	1	106	15.3	1	106	15.3
					175.vpr	1	108	15.1	1	104	15.6
					176.gcc	1	61.8	20.7	1	62.3	20.5
					181.mcf	1	164	12.8	1	138	15.1
					186.crafty	1	64.1	18.1	1	58.1	20.0
					197.parser	1	120	17.4	1	120	17.4
					252.eon	1	54.3	27.8	1	49.1	30.7
					253.perlbnk	1	114	18.3	1	114	18.3
					254.gap	1	65.4	19.5	1	65.4	19.5
					255.vortex	1	76.8	28.7	1	76.9	28.7
					256.bzip2	1	117	14.8	1	116	15.1
					300.twolf	1	185	18.8	1	156	22.4

Hardware

CPU: AMD Opteron (TM) 280
 CPU MHz: 2400
 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) 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- -Qunroll13 +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
/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment.
```