CINT2000 Result

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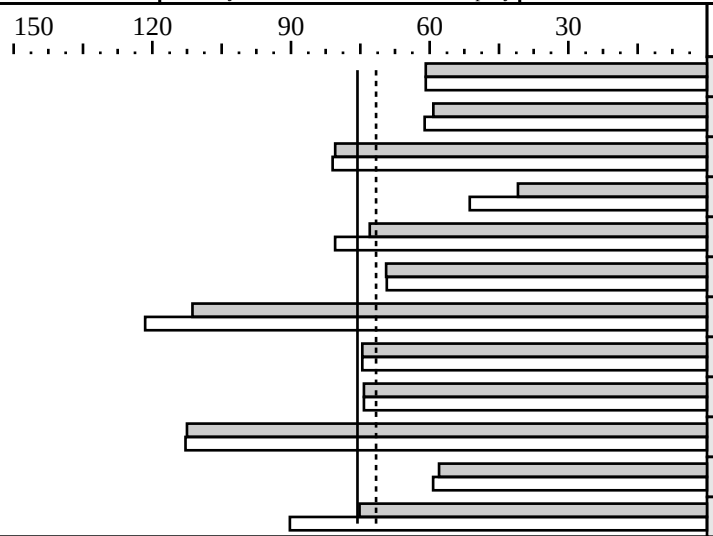
Hewlett-Packard Company

ProLiant DL145 G2 (AMD Opteron (TM) 280)

SPECint_rate2000 = 75.6

SPECint_rate_base2000 = 71.6

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Dec-2005 | Hardware Avail: Sep-2005 | Software Avail: Nov-2005



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	107	60.8	4	107	60.8
175.vpr	4	110	59.2	4	106	61.1
176.gcc	4	63.5	80.4	4	63.0	81.0
181.mcf	4	204	40.9	4	163	51.3
186.crafty	4	63.6	73.0	4	57.7	80.5
197.parser	4	120	69.4	4	121	69.3
252.eon	4	54.2	111	4	49.6	122
253.perlbmk	4	112	74.6	4	112	74.6
254.gap	4	68.8	74.2	4	68.8	74.2
255.vortex	4	78.4	113	4	78.1	113
256.bzip2	4	120	58.0	4	117	59.2
300.twolf	4	185	75.2	4	154	90.2

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:	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 -GX -GR +FDO ONESTEP=yes
Portability flags:
  176.gcc: -Dalloca=_alloca /F10000000
  186.crafty: -DNT_i386
  253.perlbmk: -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.perlbmk: 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.
```