CINT2000 Result

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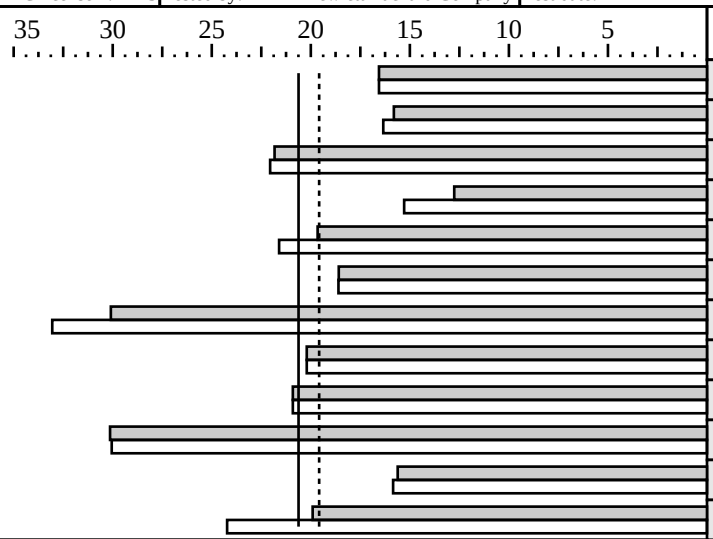
Hewlett-Packard Company
ProLiant BL45p (AMD Opteron (TM) 885)

SPECint_rate2000 = 20.6

SPECint_rate_base2000 = 19.6

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	98.1	16.6	1	98.1	16.6
175.vpr	1	103	15.8	1	99.4	16.3
176.gcc	1	58.5	21.8	1	57.9	22.1
181.mcf	1	164	12.8	1	137	15.3
186.crafty	1	59.0	19.7	1	53.7	21.6
197.parser	1	112	18.6	1	112	18.6
252.eon	1	50.1	30.1	1	45.6	33.1
253.perlbmk	1	103	20.2	1	103	20.2
254.gap	1	61.0	20.9	1	61.0	20.9
255.vortex	1	73.1	30.1	1	73.3	30.1
256.bzip2	1	111	15.6	1	110	15.8
300.twolf	1	175	19.9	1	144	24.2

Hardware

CPU:	AMD Opteron (TM) 885
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip
CPU(s) orderable:	1,2,4
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:	1x72.8GB 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
    /NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment.
```