CINT2000 Result

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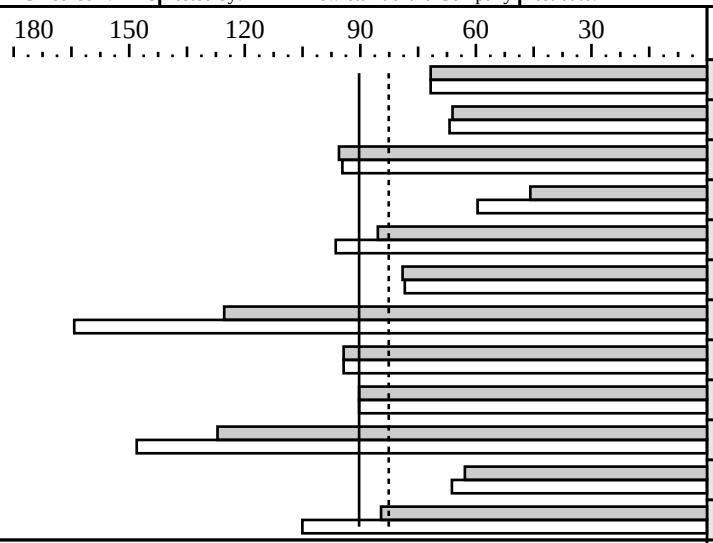
Hewlett-Packard Company

ProLiant DL585 G2 (AMD Opteron (TM) 8220SE)

SPECint_rate2000 = 90.3

SPECint_rate_base2000 = 82.6

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Sep-2006 | Hardware Avail: Sep-2006 | Software Avail: Apr-2006



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	90.5	71.7	4	90.5	71.7
175.vpr	4	98.3	66.1	4	97.2	66.8
176.gcc	4	53.4	95.5	4	53.9	94.7
181.mcf	4	182	45.9	4	140	59.6
186.crafty	4	54.3	85.5	4	48.1	96.4
197.parser	4	106	79.0	4	106	78.5
252.eon	4	48.1	125	4	36.7	164
253.perlbmk	4	88.5	94.3	4	88.5	94.3
254.gap	4	56.5	90.3	4	56.5	90.3
255.vortex	4	69.4	127	4	59.5	148
256.bzip2	4	111	62.9	4	105	66.2
300.twolf	4	165	84.6	4	133	105

Hardware

CPU:	AMD Opteron (TM) 8220SE
CPU MHz:	2800
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	2,4 chips
Parallel:	No
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	1 MB I+D on chip per core
L3 Cache:	N/A
Other Cache:	N/A
Memory:	16 GB (8x2 GB PC2-5300P CL5.0)
Disk Subsystem:	1x36 GB 10 K SAS
Other Hardware:	

Software

Operating System:	Windows Server 2003 Enterprise SP1
Compiler:	Intel C++ Compiler for 32-bit applications, (version 9.1 Build 20060323Z) Microsoft Visual Studio .NET 7.0.9466 (for libraries) MicroQuill Smartheap Library 8.0
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 -Qcxx_features -arch:SSE2 +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:     -O3 -Qipo -QaxN                         +FDO ONESTEP=yes shlw32M.lib
  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 ONESTEP=yes shlw32M.lib
  256.bzip2:   -O3 -Qipo -QaxN  -Qunroll2                              shlw32M.lib
  300.twolf:   -fast -arch:SSE2 -Qansi_alias           +FDO ONESTEP=yes shlw32M.lib
BIOS Configuration Notes
  Node Interleaving Disabled
Other Configuration Notes
  The start /b /wait /affinity command is used to bind CPU(s) to processes.
```