CINT2000 Result

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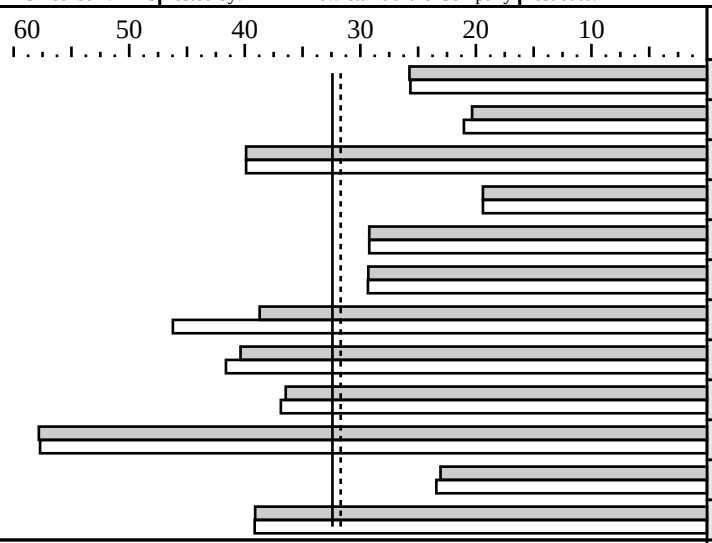
Hewlett-Packard Company
ProLiant ML370 G4 (3.4GHz, Intel Xeon)

SPECint_rate2000 = 32.4

SPECint_rate_base2000 = 31.7

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Jul-2004 | Hardware Avail: Aug-2004 | Software Avail: Aug-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	126	25.7	2	127	25.7
175.vpr	2	160	20.3	2	154	21.0
176.gcc	2	64.0	39.9	2	64.0	39.9
181.mcf	2	215	19.4	2	215	19.4
186.crafty	2	79.4	29.2	2	79.4	29.2
197.parser	2	142	29.3	2	142	29.3
252.eon	2	77.9	38.7	2	65.3	46.2
253.perlbmk	2	103	40.4	2	100	41.6
254.gap	2	70.0	36.5	2	69.2	36.9
255.vortex	2	76.2	57.8	2	76.4	57.7
256.bzip2	2	151	23.1	2	149	23.4
300.twolf	2	178	39.1	2	178	39.1

Hardware

CPU:	Intel Xeon (3.4GHz, 1MB L2, 800MHz bus)
CPU MHz:	3400
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip (HT Technology disabled)
CPU(s) orderable:	1,2
Parallel:	--
Primary Cache:	16K micro-ops I + 16KBD on chip
Secondary Cache:	1024KB(I+D) on chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	8x512MB DDR2-400
Disk Subsystem:	1x18.2GB 15K Ultra320 SCSI
Other Hardware:	

Software

Operating System:	Windows Server 2003 Standard (Build 3790)
Compiler:	Intel C++ Compiler 8.0 Build 20031211Z 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
+FDO*: FDO (-QxP not used in PASS1 to enable cross-compilation)

Base tuning for C programs:   -QxP -fast +FDO*  shlw32M.lib
Base tuning for C++ programs: -QxP -fast -GX -GR
Portability flags:
  176.gcc: -Dalloca=_alloca /F10000000
  186.crafy: -DNT_i386
  253.perlbmk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
  254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
Peak tuning:
  164.gzip:     -QxP -fast -Oa           +FDO
  175.vpr:      -QxP -fast               +FDO
  176.gcc:      basepeak = 1
  181.mcf:      -QxP -fast               +FDO  shlw32M.lib
  186.crafty:   -QxP -fast -Oa           +FDO  shlw32M.lib
  197.parser:   -QxP -fast               +FDO
  252.eon:      -QxP       -O2 -Qipo     +FDO*
  253.perlbmk:       -fast -Oa           +FDO  shlw32M.lib
  254.gap:      -QxP -fast               +FDO
```

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Notes/Tuning Information (Continued)

```
  255.vortex:   -QxP -fast               +FDO  shlw32M.lib
  256.bzip2:         -fast -Oa -Qunroll1 +FDO
  300.twolf:    -QxP -fast -O3           +FDO  shlw32M.lib ONESTEP=yes
BIOS Configuration Notes
  HT Technology disabled
```