# CINT2000 Result

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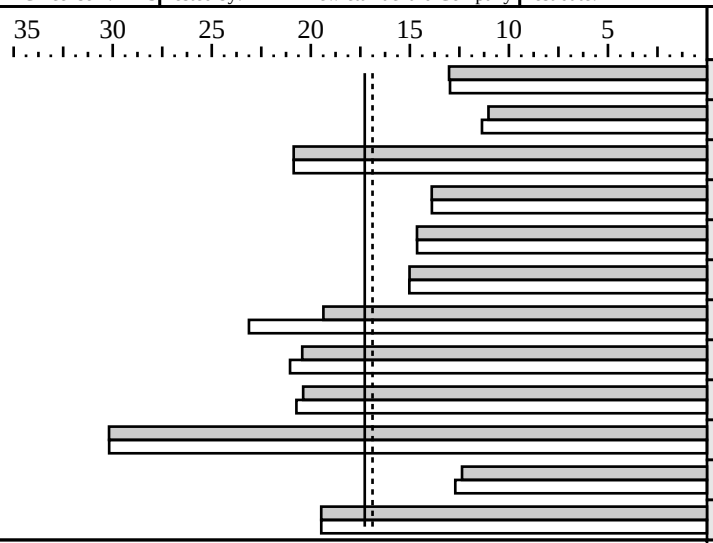
## Hewlett-Packard Company
## ProLiant ML370 G4 (3.4GHz, Intel Xeon)

SPECint_rate2000 = 17.3

SPECint_rate_base2000 = 16.9

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 | 1 | 125 | 13.0 | 1 | 125 | 13.0 |
| 175.vpr | 1 | 147 | 11.0 | 1 | 143 | 11.4 |
| 176.gcc | 1 | 61.2 | 20.9 | 1 | 61.2 | 20.9 |
| 181.mcf | 1 | 150 | 13.9 | 1 | 150 | 13.9 |
| 186.crafty | 1 | 79.2 | 14.6 | 1 | 79.3 | 14.6 |
| 197.parser | 1 | 139 | 15.0 | 1 | 139 | 15.0 |
| 252.eon | 1 | 77.9 | 19.4 | 1 | 65.2 | 23.1 |
| 253.perlbmk | 1 | 102 | 20.4 | 1 | 99.2 | 21.0 |
| 254.gap | 1 | 62.6 | 20.4 | 1 | 61.6 | 20.7 |
| 255.vortex | 1 | 73.0 | 30.2 | 1 | 73.0 | 30.2 |
| 256.bzip2 | 1 | 141 | 12.4 | 1 | 137 | 12.7 |
| 300.twolf | 1 | 179 | 19.5 | 1 | 179 | 19.5 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon (3.4GHz, 1MB L2, 800MHz bus) |
| CPU MHz: | 3400 |
| FPU: | Integrated |
| CPU(s) enabled: | 1 core, 1 chip, 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<br>Microsoft Visual Studio .NET 7.0.9466 (for libraries)<br>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
  255.vortex:   -QxP -fast               +FDO  shlw32M.lib
```

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## Notes/Tuning Information (Continued)

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