# CINT2000 Result

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## Hewlett-Packard Company

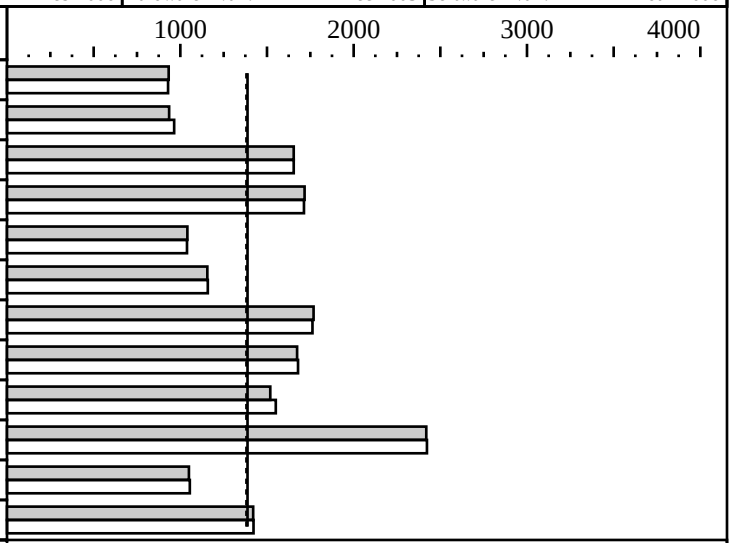
ProLiant ML370 G4 (2.8GHz, Dual-Core Intel Xeon)

SPECint2000 = 1388

SPECint_base2000 = 1381

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Feb-2006 | Hardware Avail: Dec-2005 | Software Avail: Jan-2006

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|---|---|---|---|---|---|
| 164.gzip | 1400 | 150 | 933 | 151 | 929 |
| 175.vpr | 1400 | 150 | 935 | 145 | 964 |
| 176.gcc | 1100 | 66.5 | 1654 | 66.5 | 1654 |
| 181.mcf | 1800 | 105 | 1717 | 105 | 1713 |
| 186.crafty | 1000 | 96.1 | 1041 | 96.3 | 1038 |
| 197.parser | 1800 | 156 | 1156 | 155 | 1158 |
| 252.eon | 1300 | 73.5 | 1769 | 73.8 | 1762 |
| 253.perlbmk | 1800 | 108 | 1674 | 107 | 1679 |
| 254.gap | 1100 | 72.4 | 1519 | 70.9 | 1551 |
| 255.vortex | 1900 | 78.5 | 2419 | 78.4 | 2423 |
| 256.bzip2 | 1500 | 143 | 1050 | 142 | 1055 |
| 300.twolf | 3000 | 211 | 1420 | 211 | 1422 |




### Hardware

| | |
|---|---|
| CPU: | Dual-Core Intel Xeon (2.8GHz, 2x2MB L2, 800MHz bus) |
| CPU MHz: | 2800 |
| FPU: | Integrated |
| CPU(s) enabled: | 1 core, 1 chip, 2 cores/chip (Hyper-Threading Technology disabled) |
| CPU(s) orderable: | 1,2 |
| Parallel: | No |
| Primary Cache: | 12K micro-ops I + 16KBD (on chip) per core |
| Secondary Cache: | 2048KB(I+D) (on chip) per core |
| L3 Cache: | N/A |
| Other Cache: | N/A |
| Memory: | 8x512MB PC2-3200 |
| Disk Subsystem: | 1x36.4GB 15K Ultra320 SCSI |
| Other Hardware: | |

### Software

| | |
|---|---|
| Operating System: | Windows Server 2003 Enterprise SP1 |
| Compiler: | Intel C++ Compiler for 32-bit applications, (Version 9.0 Build 20060120Z)<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

Base tuning for C programs:   -fast         +FDO  ONESTEP=yes shlw32M.lib
Base tuning for C++ programs: -fast -Qcxx_features +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:     -fast               +FDO  ONESTEP=yes
  175.vpr:      -fast               +FDO  ONESTEP=yes
  176.gcc:      basepeak = 1
  181.mcf:      -fast               +FDO  ONESTEP=yes shlw32M.lib
  186.crafty:   -fast -Oa           +FDO  ONESTEP=yes shlw32M.lib
  197.parser:   -fast               +FDO  ONESTEP=yes
  252.eon:      -fast               +FDO
  253.perlbmk:  -fast -Oa           +FDO  ONESTEP=yes shlw32M.lib
  254.gap:      -fast               +FDO  ONESTEP=yes
  255.vortex:   -fast               +FDO  ONESTEP=yes shlw32M.lib
```

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## Notes/Tuning Information (Continued)

```
  256.bzip2:    -fast -Oa -Qunroll1 +FDO  ONESTEP=yes shlw32M.lib
  300.twolf:    -fast               +FDO              shlw32M.lib
BIOS Configuration Notes
  Hyper-Threading Technology disabled
Other Configuration Notes
  /NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment.
```