# CINT2000 Result

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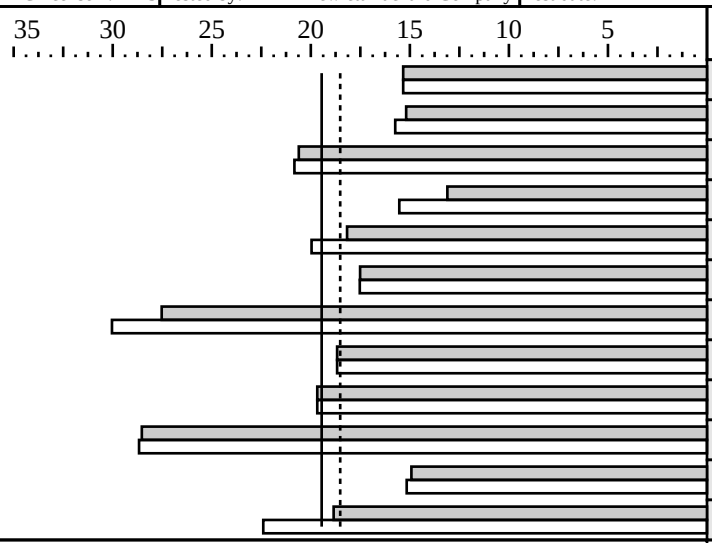
## Hewlett-Packard Company
## ProLiant DL385 (AMD Opteron (TM) 280)

SPECint_rate2000 = 19.5

SPECint_rate_base2000 = 18.5

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




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 164.gzip | 1 | 106 | 15.3 | 1 | 106 | 15.3 |
| 175.vpr | 1 | 107 | 15.2 | 1 | 103 | 15.7 |
| 176.gcc | 1 | 61.9 | 20.6 | 1 | 61.3 | 20.8 |
| 181.mcf | 1 | 159 | 13.1 | 1 | 134 | 15.5 |
| 186.crafty | 1 | 63.8 | 18.2 | 1 | 58.1 | 20.0 |
| 197.parser | 1 | 119 | 17.5 | 1 | 119 | 17.5 |
| 252.eon | 1 | 54.8 | 27.5 | 1 | 50.2 | 30.0 |
| 253.perlbmk | 1 | 112 | 18.7 | 1 | 112 | 18.7 |
| 254.gap | 1 | 64.9 | 19.7 | 1 | 64.9 | 19.7 |
| 255.vortex | 1 | 77.3 | 28.5 | 1 | 76.9 | 28.7 |
| 256.bzip2 | 1 | 117 | 14.9 | 1 | 115 | 15.2 |
| 300.twolf | 1 | 185 | 18.8 | 1 | 155 | 22.4 |

### Hardware

| | |
|---|---|
| CPU: | AMD Opteron (TM) 280 |
| CPU MHz: | 2400 |
| FPU: | Integrated |
| CPU(s) enabled: | 1 core, 1 chip, 2 cores/chip |
| CPU(s) orderable: | 1,2 |
| 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: | 1x36.4GB 15K Ultra320 SCSI |
| Other Hardware: | |

### Software

| | |
|---|---|
| Operating System: | Windows Server 2003 Enterprise SP1 |
| 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
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.
```