# CINT2000 Result

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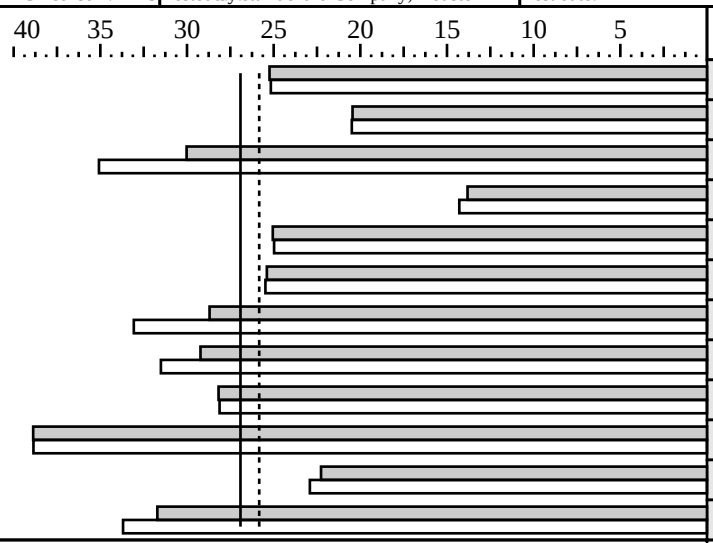
## Hewlett-Packard Company

ProLiant DL580 G2(2.8GHz, Intel Xeon MP)

SPECint_rate2000 = 26.9

SPECint_rate_base2000 = 25.8

SPEC license #: 3 Tested by: Hewlett-Packard Company, Houston TX Test date: Sep-2003 Hardware Avail: Jul-2003 Software Avail: Jun-2003




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 164.gzip | 2 | 129 | 25.2 | 2 | 129 | 25.2 |
| 175.vpr | 2 | 159 | 20.4 | 2 | 159 | 20.5 |
| 176.gcc | 2 | 85.0 | 30.0 | 2 | 72.8 | 35.1 |
| 181.mcf | 2 | 302 | 13.8 | 2 | 292 | 14.3 |
| 186.crafty | 2 | 92.6 | 25.1 | 2 | 92.9 | 25.0 |
| 197.parser | 2 | 164 | 25.4 | 2 | 164 | 25.5 |
| 252.eon | 2 | 105 | 28.7 | 2 | 91.2 | 33.1 |
| 253.perlbmk | 2 | 143 | 29.2 | 2 | 133 | 31.5 |
| 254.gap | 2 | 90.6 | 28.2 | 2 | 90.8 | 28.1 |
| 255.vortex | 2 | 113 | 38.9 | 2 | 113 | 38.9 |
| 256.bzip2 | 2 | 156 | 22.3 | 2 | 152 | 22.9 |
| 300.twolf | 2 | 219 | 31.7 | 2 | 207 | 33.7 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon MP (2.8GHz, 400MHz bus) |
| CPU MHz: | 2800 |
| FPU: | Integrated |
| CPU(s) enabled: | 2 cores, 2 chips, 1 core/chip (Hyper-Threading disabled) |
| CPU(s) orderable: | 1,2,4 |
| Parallel: | No |
| Primary Cache: | 12K micro-ops I + 8KBD on chip |
| Secondary Cache: | 512KB(I+D) on chip |
| L3 Cache: | 2048KB(I+D) on chip |
| Other Cache: | N/A |
| Memory: | 16x512MB PC1600 |
| Disk Subsystem: | 2x18.2GB 15K Ultra3 SCSI |
| Other Hardware: | |

### Software

| | |
|---|---|
| Operating System: | Windows 2000 Advanced Server(Build 2195 SP3) |
| Compiler: | Intel C++ Compiler 7.1 Build 20030801Z<br>Microsoft Visual Studio .NET 7.0.9466 (for libraries)<br>MicroQuill Smartheap Library 7.0 |
| File System: | NTFS |
| System State: | Hyperthreading disabled in BIOS |

## Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen  PASS2=-Qprof_use
Base tuning for C programs:   -QxW -Qipo -O3 +FDO ONESTEP=yes
Base tuning for C++ programs: -Qipo -GX -GR +FDO ONESTEP=yes
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:  -QxW -Qipo -O3 +FDO ONESTEP=yes
175.vpr:  -QxW -Qipo -O3 +FDO ONESTEP=yes
176.gcc:  -QxW -Qipo -O3 -Oi- +FDO ONESTEP=yes
181.mcf:  -Oa -Qipo +FDO shlw32M.lib ONESTEP=yes
186.crafty:  -QxW -Qipo -O3 +FDO ONESTEP=yes
197.parser:  -QxW -Qipo -O3 -Oa +FDO ONESTEP=yes
252.eon: -QxW -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
253.perlbmk: -Qipo -O3 -Oa +FDO shlw32M.lib ONESTEP=yes
254.gap: -QxW -Qipo -O3 +FDO ONESTEP=yes
255.vortex: -QxW -Qipo -O3 +FDO ONESTEP=yes
256.bzip2: -Qunroll1 -Qipo -Oa +FDO ONESTEP=yes
```

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## Notes/Tuning Information (Continued)

```
300.twolf: -QxW -Qipo -O3 -Oa +FDO shlw32M.lib ONESTEP=yes
```