# CINT2000 Result

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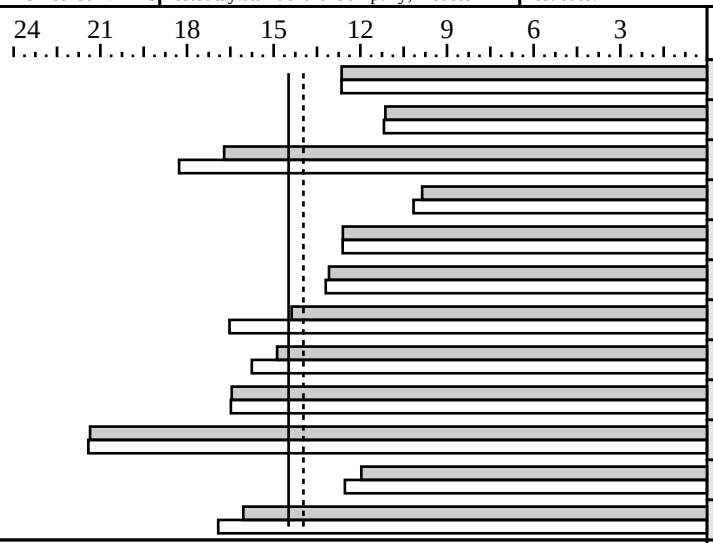
## Hewlett-Packard Company
## ProLiant BL40p (2.8GHz, Intel Xeon MP)

SPECint_rate2000 = 14.5

SPECint_rate_base2000 = 14.0

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 | 1 | 128 | 12.6 | 1 | 128 | 12.7 |
| 175.vpr | 1 | 146 | 11.1 | 1 | 145 | 11.2 |
| 176.gcc | 1 | 76.3 | 16.7 | 1 | 69.8 | 18.3 |
| 181.mcf | 1 | 212 | 9.86 | 1 | 206 | 10.2 |
| 186.crafty | 1 | 92.0 | 12.6 | 1 | 92.0 | 12.6 |
| 197.parser | 1 | 160 | 13.1 | 1 | 158 | 13.2 |
| 252.eon | 1 | 105 | 14.4 | 1 | 91.2 | 16.5 |
| 253.perlbmk | 1 | 140 | 14.9 | 1 | 133 | 15.8 |
| 254.gap | 1 | 77.6 | 16.5 | 1 | 77.4 | 16.5 |
| 255.vortex | 1 | 103 | 21.4 | 1 | 103 | 21.4 |
| 256.bzip2 | 1 | 145 | 12.0 | 1 | 139 | 12.5 |
| 300.twolf | 1 | 217 | 16.0 | 1 | 206 | 16.9 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon MP (2.8GHz, 400MHz bus) |
| CPU MHz: | 2800 |
| FPU: | Integrated |
| CPU(s) enabled: | 1 core, 1 chip, 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: | 4x512MB PC2100 |
| Disk Subsystem: | 2x36.4GB 15K Ultra320 SCSI |
| Other Hardware: | |

### Software

| | |
|---|---|
| Operating System: | Windows 2000 Advanced Server (Build 2195 SP3) |
| Compiler: | Intel C++ Compiler 7.1 Build 20030813Z<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