# CINT2000 Result

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## Hewlett-Packard Company

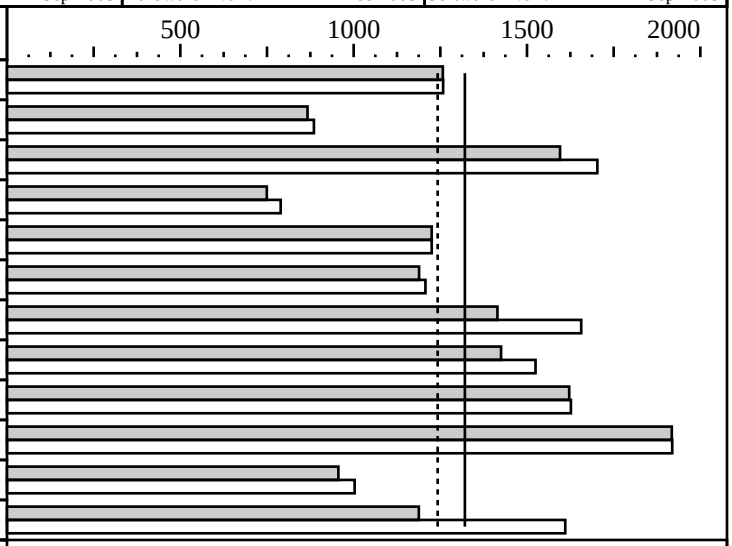
ProLiant BL20p G2(3.2GHz/1MB L3 cache, Intel Xeon)

SPECint2000 = 1321

SPECint_base2000 = 1242

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Sep-2003 | Hardware Avail: Dec-2003 | Software Avail: Sep-2003

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|---|---|---|---|---|---|
| 164.gzip | 1400 | 111 | 1257 | 111 | 1258 |
| 175.vpr | 1400 | 162 | 867 | 158 | 885 |
| 176.gcc | 1100 | 69.0 | 1595 | 64.6 | 1703 |
| 181.mcf | 1800 | 240 | 749 | 228 | 789 |
| 186.crafty | 1000 | 81.6 | 1225 | 81.6 | 1225 |
| 197.parser | 1800 | 151 | 1189 | 149 | 1207 |
| 252.eon | 1300 | 91.9 | 1415 | 78.5 | 1656 |
| 253.perlbmk | 1800 | 126 | 1425 | 118 | 1525 |
| 254.gap | 1100 | 67.8 | 1622 | 67.6 | 1627 |
| 255.vortex | 1900 | 99.1 | 1918 | 99.0 | 1919 |
| 256.bzip2 | 1500 | 157 | 956 | 150 | 1003 |
| 300.twolf | 3000 | 253 | 1188 | 186 | 1610 |




### Hardware

| | |
|---|---|
| CPU: | Intel Xeon (3.2GHz, 533MHz bus) |
| CPU MHz: | 3200 |
| FPU: | Integrated |
| CPU(s) enabled: | 1 core, 1 chip, 1 core/chip (Hyper-Threading disabled) |
| CPU(s) orderable: | 1,2 |
| Parallel: | No |
| Primary Cache: | 12K micro-ops I + 8KBD on chip |
| Secondary Cache: | 512KB(I+D) on chip |
| L3 Cache: | 1024KB(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 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: | Default |

## 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:  -O3 -QxW -Qipo +FDO ONESTEP=yes
175.vpr:  -QxW -Qipo -O3 +FDO ONESTEP=yes
176.gcc:  -QxW -Qipo -Oi- -O3 +FDO ONESTEP=yes
181.mcf:  -Oa -Qipo +FDO shlw32M.lib ONESTEP=yes
186.crafty:  -QxW -Qipo -O3 +FDO ONESTEP=yes
197.parser:  -QxW -Qipo -Oa -O3 +FDO ONESTEP=yes
252.eon: -QxW -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
253.perlbmk: -Qipo -Oa -O3 +FDO shlw32M.lib ONESTEP=yes
254.gap: -QxW -Qipo -O3 +FDO ONESTEP=yes
255.vortex: -QxW -Qipo -O3 +FDO ONESTEP=yes
256.bzip2: -Qunroll1 -Oa -Qipo +FDO ONESTEP=yes
```

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## Notes/Tuning Information (Continued)

```
300.twolf: -QxW -Qipo -O3 -Oa +FDO shlw32M.lib ONESTEP=yes
BIOS Configuration Notes
  Hyper Threading disabled in BIOS
```