# CINT2000 Result

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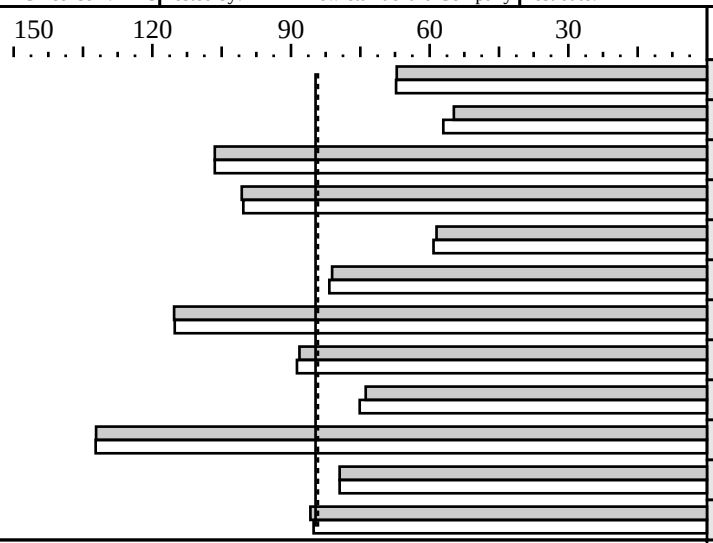
## Hewlett-Packard Company

ProLiant ML570 G4 (3.4GHz, Intel Xeon processor 7140M)

SPECint_rate2000 = 84.7

SPECint_rate_base2000 = 84.2

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Aug-2006 | Hardware Avail: Aug-2006 | Software Avail: May-2006




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 164.gzip | 8 | 194 | 67.1 | 8 | 193 | 67.3 |
| 175.vpr | 8 | 237 | 54.8 | 8 | 228 | 57.0 |
| 176.gcc | 8 | 95.9 | 106 | 8 | 95.9 | 106 |
| 181.mcf | 8 | 166 | 101 | 8 | 167 | 100 |
| 186.crafty | 8 | 159 | 58.5 | 8 | 157 | 59.2 |
| 197.parser | 8 | 206 | 81.1 | 8 | 204 | 81.7 |
| 252.eon | 8 | 105 | 115 | 8 | 105 | 115 |
| 253.perlbmk | 8 | 189 | 88.2 | 8 | 188 | 88.7 |
| 254.gap | 8 | 138 | 73.8 | 8 | 136 | 75.1 |
| 255.vortex | 8 | 133 | 132 | 8 | 133 | 132 |
| 256.bzip2 | 8 | 175 | 79.5 | 8 | 175 | 79.5 |
| 300.twolf | 8 | 324 | 85.8 | 8 | 327 | 85.1 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon processor 7140M (800MHz system bus) |
| CPU MHz: | 3400 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 2 chips, 2 cores/chip (Hyper-Threading Technology enabled) |
| CPU(s) orderable: | 1,2,4 chips |
| Parallel: | No |
| Primary Cache: | 12 K I micro-ops + 16 KB D on chip per core |
| Secondary Cache: | 1 MB I+D on chip per core |
| L3 Cache: | 16 MB on chip per chip |
| Other Cache: | N/A |
| Memory: | 32 GB (16x2048MB PC2-3200 dual-rank) |
| Disk Subsystem: | 1x36 GB 10 K SAS |
| Other Hardware: | |

### Software

| | |
|---|---|
| Operating System: | Windows Server 2003 Enterprise SP1 |
| Compiler: | Intel C++ Compiler for 32-bit applications, (Version 9.1 Build 20060323Z)<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:    basepeak=1
    300.twolf:    -fast                +FDO              shlw32M.lib
  BIOS Configuration Notes
    HyperThreading Technology enabled
```