



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL140(3.2GHz/1MB L3 cache, Intel Xeon)

SPECint_rate2000 = 14.6
SPECint_rate_base2000 = 13.7

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

| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip | 1 | 113 | 14.4 | 1 | 113 | 14.4 |
| 175.vpr | 1 | 167 | 9.75 | 1 | 164 | 9.90 |
| 176.gcc | 1 | 76.8 | 16.6 | 1 | 69.2 | 18.4 |
| 181.mcf | 1 | 299 | 6.99 | 1 | 294 | 7.11 |
| 186.crafy | 1 | 81.7 | 14.2 | 1 | 81.7 | 14.2 |
| 197.parser | 1 | 159 | 13.2 | 1 | 156 | 13.4 |
| 252.eon | 1 | 91.9 | 16.4 | 1 | 78.5 | 19.2 |
| 253.perlbnk | 1 | 128 | 16.3 | 1 | 119 | 17.6 |
| 254.gap | 1 | 72.4 | 17.6 | 1 | 72.2 | 17.7 |
| 255.vortex | 1 | 102 | 21.6 | 1 | 102 | 21.7 |
| 256.bzip2 | 1 | 165 | 10.5 | 1 | 159 | 11.0 |
| 300.twolf | 1 | 260 | 13.4 | 1 | 188 | 18.5 |

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: 1x80GB ATA/100 7200 rpm
 Other Hardware:

Software

Operating System: Windows 2000 Server(Build 2195 SP3)
 Compiler: Intel C++ Compiler 7.1 Build 20030813Z
 Microsoft Visual Studio .NET 7.0.9466 (for libraries)
 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.perlbnk: -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.crafy: -QxW -Qipo -O3 +FDO ONESTEP=yes
 197.parser: -QxW -Qipo -Oa -O3 +FDO ONESTEP=yes
 252.eon: -QxW -Qipo -O3 +FDO ONESTEP=yes
 253.perlbnk: -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