



# CINT2000 Result

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Hewlett-Packard Company  
ProLiant ML350 G4p (3.4GHz, Intel Xeon)

SPECint\_rate2000 = 18.8  
SPECint\_rate\_base2000 = 18.3

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Mar-2005 Hardware Avail: Mar-2005 Software Avail: Nov-2004

| Benchmark   | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip    | 1           | 124          | 13.1       | 1      | 124     | 13.1  |
| 175.vpr     | 1           | 125          | 13.0       | 1      | 122     | 13.3  |
| 176.gcc     | 1           | 57.3         | 22.3       | 1      | 57.3    | 22.3  |
| 181.mcf     | 1           | 96.8         | 21.6       | 1      | 94.4    | 22.1  |
| 186.crafty  | 1           | 79.2         | 14.7       | 1      | 79.2    | 14.7  |
| 197.parser  | 1           | 130          | 16.1       | 1      | 129     | 16.2  |
| 252.eon     | 1           | 78.4         | 19.2       | 1      | 64.5    | 23.4  |
| 253.perlbnk | 1           | 101          | 20.8       | 1      | 98.0    | 21.3  |
| 254.gap     | 1           | 63.3         | 20.2       | 1      | 61.6    | 20.7  |
| 255.vortex  | 1           | 67.2         | 32.8       | 1      | 67.2    | 32.8  |
| 256.bzip2   | 1           | 125          | 14.0       | 1      | 123     | 14.1  |
| 300.twolf   | 1           | 179          | 19.4       | 1      | 179     | 19.4  |

### Hardware

CPU: Intel Xeon (3.4GHz, 2MB L2, 800MHz bus)  
 CPU MHz: 3400  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)  
 CPU(s) orderable: 1,2  
 Parallel: No  
 Primary Cache: 12K micro-ops I + 16KBD on chip  
 Secondary Cache: 2048KB(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 6x2048MB PC2-3200 CL3 Dual-Rank DIMMs  
 Disk Subsystem: 1x18.2GB 15K U320  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Standard (Build 3790)  
 Compiler: Intel C++ Compiler 8.1 Build 20040802Z  
 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
+FDO*: PASS1=-Qprof_gen PASS2=-Qprof_use (-QxP not used in PASS1 to enable cross-compilation)
Base tuning for C programs: -fast +FDO shlw32M.lib
Base tuning for C++ programs: -fast -GX -GR
Portability flags:
 176.gcc: -Dalloca=_alloca /F10000000
 186.crafty: -DNT_i386
 253.perlbnk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
 254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
Peak tuning:
 164.gzip: basepeak=1
 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: -QxP -O2 -Qipo +FDO* ONESTEP=yes
 253.perlbnk: -fast -Oa +FDO ONESTEP=yes shlw32M.lib
 254.gap: -fast +FDO ONESTEP=yes
 255.vortex: basepeak=1
```



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## Notes/Tuning Information (Continued)

256.bzip2: -fast -Oa -Qunroll1 +FDO ONESTEP=yes  
300.twolf: basepeak=1spec.cpu2000.notes110: BIOS Configuration Notes  
Hyper-Threading Technology disabled