



# CINT2000 Result

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**Hewlett-Packard Company**  
ProLiant ML570 G3 (3.0GHz, Intel dual-core Xeon)

SPECint\_rate2000 = **57.2**  
SPECint\_rate\_base2000 = **56.9**

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Sep-2005 | Hardware Avail: Oct-2005 | Software Avail: Jun-2005

| Benchmark   | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip    | 4           | 146          | 44.6       | 4      | 146     | 44.5  |
| 175.vpr     | 4           | 175          | 37.0       | 4      | 170     | 38.1  |
| 176.gcc     | 4           | 71.3         | 71.6       | 4      | 71.3    | 71.6  |
| 181.mcf     | 4           | 242          | 34.4       | 4      | 243     | 34.4  |
| 186.crafty  | 4           | 90.7         | 51.2       | 4      | 90.9    | 51.1  |
| 197.parser  | 4           | 156          | 53.7       | 4      | 155     | 53.8  |
| 252.eon     | 4           | 69.5         | 86.8       | 4      | 68.9    | 87.6  |
| 253.perlbnk | 4           | 106          | 78.6       | 4      | 106     | 78.9  |
| 254.gap     | 4           | 101          | 50.6       | 4      | 100     | 51.0  |
| 255.vortex  | 4           | 88.3         | 99.8       | 4      | 88.3    | 99.8  |
| 256.bzip2   | 4           | 164          | 42.4       | 4      | 162     | 42.9  |
| 300.twolf   | 4           | 197          | 70.8       | 4      | 196     | 70.9  |

### Hardware

CPU: Intel dual-core Xeon (3.0GHz, 2x2MB L2, 667MHz bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip (Hyper-Threading Technology disabled)  
CPU(s) orderable: 1,2,4  
Parallel: No  
Primary Cache: 12K micro-ops I + 16KBD (on chip) per core  
Secondary Cache: 2048KB(I+D) (on chip) per core  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 16x1024MB PC2-3200  
Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
Compiler: Intel C++ Compiler for 32-bit applications, (Version 9.0 Build 20050624Z)  
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: -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.perlbnk: -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.perlbnk: -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: -fast -Oa -Qunroll11 +FDO ONESTEP=yes shlw32M.lib  
300.twolf: -fast +FDO shlw32M.lib  
BIOS Configuration Notes  
Hyper-Threading Technology disabled