# CINT2000 Result

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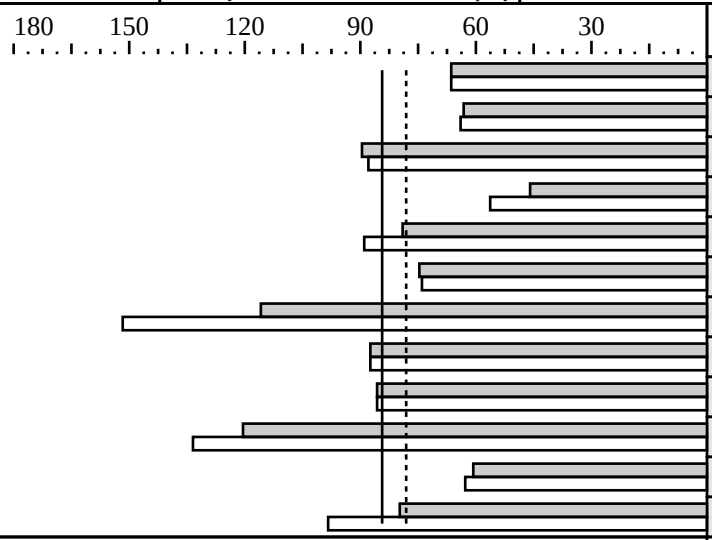
## Hewlett-Packard Company

ProLiant BL465c (AMD Opteron (TM) 2218)

SPECint_rate2000 = 84.3

SPECint_rate_base2000 = 78.1

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




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 164.gzip | 4 | 97.8 | 66.4 | 4 | 97.8 | 66.4 |
| 175.vpr | 4 | 103 | 63.2 | 4 | 102 | 64.0 |
| 176.gcc | 4 | 57.0 | 89.6 | 4 | 58.1 | 87.9 |
| 181.mcf | 4 | 182 | 45.9 | 4 | 148 | 56.3 |
| 186.crafty | 4 | 58.7 | 79.0 | 4 | 52.1 | 89.0 |
| 197.parser | 4 | 112 | 74.7 | 4 | 113 | 74.0 |
| 252.eon | 4 | 52.1 | 116 | 4 | 39.8 | 152 |
| 253.perlbmk | 4 | 95.6 | 87.4 | 4 | 95.6 | 87.4 |
| 254.gap | 4 | 59.6 | 85.6 | 4 | 59.6 | 85.6 |
| 255.vortex | 4 | 73.2 | 120 | 4 | 66.1 | 133 |
| 256.bzip2 | 4 | 115 | 60.7 | 4 | 111 | 62.8 |
| 300.twolf | 4 | 175 | 79.8 | 4 | 142 | 98.4 |

### Hardware

| | |
|---|---|
| CPU: | AMD Opteron (TM) 2218 |
| CPU MHz: | 2600 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 2 chips, 2 cores/chip |
| CPU(s) orderable: | 1,2 chips |
| Parallel: | No |
| Primary Cache: | 64 KB I + 64 KB D on chip per core |
| Secondary Cache: | 1 MB I+D on chip per core |
| L3 Cache: | N/A |
| Other Cache: | N/A |
| Memory: | 16 GB (8x2048 MB PC2-5300P CL5.0) |
| 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 -arch:SSE2 -Oi- +FDO ONESTEP=yes
Base tuning for C++ programs: -fast -Qcxx_features -arch:SSE2 +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:    basepeak=yes
  175.vpr:     -fast -arch:SSE2 -Qoption,c,-ip_ninl_max_stats=2000
               -Qoption,c,-ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes
  176.gcc:     -fast -arch:SSE2 -Oi- -Qunroll3          +FDO
  181.mcf:     -O3 -Qipo -QaxN                         +FDO ONESTEP=yes shlw32M.lib
  186.crafty:  -fast -arch:SSE2                         +FDO ONESTEP=yes
  197.parser:  -arch:SSE2 -Oi- -Qipo                    +FDO ONESTEP=yes
  252.eon:     -fast -arch:SSE2 -Qansi_alias -Qoption,c,-ip_ninl_max_stats=2000
               -Qoption,c,-ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes
  253.perlbmk: basepeak=yes
  254.gap:     basepeak=yes
```

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## Notes/Tuning Information (Continued)

```
    255.vortex:  -fast -arch:SSE2 -Oi- -Qoption,c,-ip_ninl_max_stats=2000
                 -Qoption,c,-ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes shlw32M.lib
    256.bzip2:   -O3 -Qipo -QaxN  -Qunroll2                              shlw32M.lib
    300.twolf:   -fast -arch:SSE2 -Qansi_alias           +FDO ONESTEP=yes shlw32M.lib
  BIOS Configuration Notes
    Node Interleaving Disabled
```