# CINT2000 Result

Copyright ©1999-2007, Standard Performance Evaluation Corporation

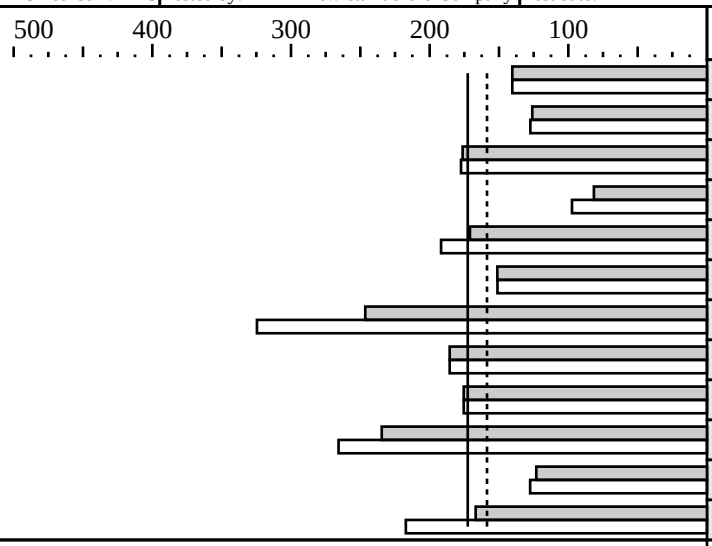
## Hewlett-Packard Company

ProLiant BL685c (AMD Opteron (TM) 8220)

SPECint_rate2000 = 173

SPECint_rate_base2000 = 159

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Nov-2006 | Hardware Avail: Feb-2007 | Software Avail: Aug-2006




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 164.gzip | 8 | 92.5 | 140 | 8 | 92.5 | 140 |
| 175.vpr | 8 | 103 | 126 | 8 | 102 | 127 |
| 176.gcc | 8 | 57.9 | 176 | 8 | 57.5 | 177 |
| 181.mcf | 8 | 205 | 81.6 | 8 | 172 | 97.4 |
| 186.crafty | 8 | 54.3 | 171 | 8 | 48.4 | 192 |
| 197.parser | 8 | 110 | 151 | 8 | 111 | 151 |
| 252.eon | 8 | 49.0 | 246 | 8 | 37.2 | 325 |
| 253.perlbmk | 8 | 90.0 | 186 | 8 | 90.0 | 186 |
| 254.gap | 8 | 58.2 | 175 | 8 | 58.2 | 175 |
| 255.vortex | 8 | 75.2 | 235 | 8 | 66.4 | 266 |
| 256.bzip2 | 8 | 113 | 123 | 8 | 109 | 128 |
| 300.twolf | 8 | 167 | 167 | 8 | 128 | 217 |

### Hardware

| | |
|---|---|
| CPU: | AMD Opteron (TM) 8220 |
| CPU MHz: | 2800 |
| FPU: | Integrated |
| CPU(s) enabled: | 8 cores, 4 chips, 2 cores/chip |
| CPU(s) orderable: | 2,4 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: | 32 GB (16x2 GB 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 20060816Z)<br>Microsoft Visual Studio .NET 7.0.9466 (for libraries)<br>MicroQuill Smartheap Library 8.0 |
| 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
```

Copyright ©1999-2007, Standard Performance Evaluation Corporation



## 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
Other Configuration Notes
  The start /b /wait /affinity command is used to bind CPU(s) to processes.
```