# CINT2000 Result

## Hewlett-Packard Company
ProLiant BL465c (AMD Opteron (TM) 2218)

**SPECint_rate2000 = 84.3**

**SPECint_rate_base2000 = 78.1**

### 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
- **Memory:** 16 GB (8x2048 MB PC2-5300P CL5.0)
- **Disk Subsystem:** 1x36 GB 10 K SAS

### Software
- **Operating System:** Windows Server 2003 Enterprise SP1
- **Compiler:** Intel C++ Compiler for 32-bit applications, (version 9.1 Build 20060323Z)
- **File System:** NTFS
- **System State:** Default

### Notes/Tuning Information
- **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:**
  - `gcc`: `-Dalloca=alloca /F1000000`
  - `crafter`: `-DNT_i386`
  - `perlmbkm`: `-DSPEC_CPU2000_NTOS -DPERLDLL /MT`
  - `gap`: `-DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO`
- **Peak tuning:**
  - `gzip`: `-fast -arch:SSE2 -Qoption,c,-ip_ninl_max_stats=2000 -Qoption,c,-ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes`
  - `vpr`: `-fast -arch:SSE2 -O1 -Qoption,c,-ip_ninl_max_stats=2000 -Qoption,c,-ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes`
  - `parser`: `-arch:SSE2 -Oi -Qipo +FDO ONESTEP=yes`
  - `eon`: `-fast -arch:SSE2 -Qansi_alias -Qoption,c,-ip_ninl_max_stats=2000 -Qoption,c,-ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes`
  - `perlmbkm`: basepeak=yes
  - `gap`: basepeak=yes

### Benchmark Results

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>30</th>
<th>60</th>
<th>90</th>
<th>120</th>
<th>150</th>
<th>180</th>
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</thead>
<tbody>
<tr>
<td>164.gzip</td>
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<td>97.8</td>
<td>66.4</td>
<td>4</td>
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<tr>
<td>197.parser</td>
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<td>112</td>
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<td>87.4</td>
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<tr>
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<td>59.6</td>
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<td>4</td>
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<td>85.6</td>
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<tr>
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<tr>
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<td>4</td>
<td>111</td>
<td>62.8</td>
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<tr>
<td>300.twolf</td>
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<td>175</td>
<td>79.8</td>
<td>4</td>
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</tbody>
</table>
**CINT2000 Result**

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ProLiant BL465c (AMD Opteron (TM) 2218)

<table>
<thead>
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<th>SPEClicense #: 3</th>
<th>Tested by: Hewlett-Packard Company</th>
<th>Test date: Aug-2006</th>
<th>Hardware Avail: Sep-2006</th>
<th>Software Avail: Apr-2006</th>
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</thead>
</table>

**SPECint_rate2000 = 84.3**  
**SPECint_rate_base2000 = 78.1**

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 -Qunroll12  
shlw32M.lib

300.twolf:  -fast -arch:SSE2 -Qansi_alias  
+FDO ONESTEP=yes shlw32M.lib

BIOS Configuration Notes

Node Interleaving Disabled