Dell Inc.

PowerEdge 2970 (AMD Opteron 2212 HE, 2.00GHz)

SPECfp®_rate2006 =  Not Run
SPECfp_rate_base2006 = 37.3

CPU2006 license: 55
Test sponsor: Dell Inc.
Tested by: Dell Inc.

Hardware

<table>
<thead>
<tr>
<th>Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System: SuSE Linux Enterprise Server 10 64-bit kernel</td>
</tr>
<tr>
<td>Compiler: QLogic PathScale</td>
</tr>
<tr>
<td>Auto Parallel: No</td>
</tr>
<tr>
<td>File System: ReiserFS</td>
</tr>
<tr>
<td>System State: Multi-user, run level 3</td>
</tr>
<tr>
<td>Base Pointers: 64-bit</td>
</tr>
<tr>
<td>Peak Pointers: Not Applicable</td>
</tr>
</tbody>
</table>

SPECfp_rate_base2006 = 37.3
SPEC CFP2006 Result

Dell Inc.

PowerEdge 2970 (AMD Opteron 2212 HE, 2.00GHz)  

SPECfp_rate2006 =  Not Run  

SPECfp_rate_base2006 = 37.3

Dell Inc. 

PowerEdge 2970 (AMD Opteron 2212 HE, 2.00GHz)

L3 Cache: None
Other Cache: None
Memory: 16 GB (8x2GB, DDR2-667 CL5 ECC Dual Rank)
Disk Subsystem: SAS, 73 GB
Other Hardware: None
Other Software: None

CPU2006 license: 55
Test sponsor: Dell Inc.
Tested by: Dell Inc.

Test date: Mar-2007
Hardware Availability: Apr-2007
Software Availability: Aug-2006

Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Copies</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>410.bwaves</td>
<td>4</td>
<td>1054</td>
<td>51.6</td>
<td>1058</td>
<td>51.4</td>
<td>1068</td>
<td>50.9</td>
</tr>
<tr>
<td>416.gamess</td>
<td>4</td>
<td>1960</td>
<td>40.0</td>
<td>1960</td>
<td>40.0</td>
<td>1966</td>
<td>39.8</td>
</tr>
<tr>
<td>433.mile</td>
<td>4</td>
<td>1079</td>
<td>34.0</td>
<td>1078</td>
<td>34.1</td>
<td>1078</td>
<td>34.1</td>
</tr>
<tr>
<td>434.zesmp</td>
<td>4</td>
<td>1031</td>
<td>35.3</td>
<td>1033</td>
<td>35.2</td>
<td>1034</td>
<td>35.2</td>
</tr>
<tr>
<td>435.gromacs</td>
<td>4</td>
<td>793</td>
<td>36.0</td>
<td>792</td>
<td>36.0</td>
<td>793</td>
<td>36.0</td>
</tr>
<tr>
<td>436.cactusADM</td>
<td>4</td>
<td>1238</td>
<td>38.6</td>
<td>1238</td>
<td>38.6</td>
<td>1236</td>
<td>38.7</td>
</tr>
<tr>
<td>437.leslie3d</td>
<td>4</td>
<td>1142</td>
<td>32.9</td>
<td>1144</td>
<td>32.9</td>
<td>1147</td>
<td>32.8</td>
</tr>
<tr>
<td>444.namd</td>
<td>4</td>
<td>918</td>
<td>35.0</td>
<td>920</td>
<td>34.9</td>
<td>919</td>
<td>34.9</td>
</tr>
<tr>
<td>447.dealII</td>
<td>4</td>
<td>807</td>
<td>56.7</td>
<td>806</td>
<td>56.8</td>
<td>805</td>
<td>56.8</td>
</tr>
<tr>
<td>450.soplex</td>
<td>4</td>
<td>1109</td>
<td>30.1</td>
<td>1115</td>
<td>29.9</td>
<td>1117</td>
<td>29.9</td>
</tr>
<tr>
<td>453.povray</td>
<td>4</td>
<td>482</td>
<td>44.1</td>
<td>480</td>
<td>44.4</td>
<td>482</td>
<td>44.1</td>
</tr>
<tr>
<td>454.calculix</td>
<td>4</td>
<td>1542</td>
<td>21.4</td>
<td>1542</td>
<td>21.4</td>
<td>1542</td>
<td>21.4</td>
</tr>
<tr>
<td>459.GemsFDTD</td>
<td>4</td>
<td>1373</td>
<td>30.9</td>
<td>1382</td>
<td>30.7</td>
<td>1390</td>
<td>30.5</td>
</tr>
<tr>
<td>465.tonto</td>
<td>4</td>
<td>966</td>
<td>40.7</td>
<td>961</td>
<td>40.9</td>
<td>965</td>
<td>40.8</td>
</tr>
<tr>
<td>470.lbm</td>
<td>4</td>
<td>1584</td>
<td>34.7</td>
<td>1582</td>
<td>34.7</td>
<td>1584</td>
<td>34.7</td>
</tr>
<tr>
<td>481.wrf</td>
<td>4</td>
<td>1026</td>
<td>43.6</td>
<td>1030</td>
<td>43.4</td>
<td>1051</td>
<td>42.5</td>
</tr>
<tr>
<td>482.sphinx3</td>
<td>4</td>
<td>1762</td>
<td>44.3</td>
<td>1767</td>
<td>44.1</td>
<td>1766</td>
<td>44.1</td>
</tr>
</tbody>
</table>

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

Taskset utility used to bind CPU(s) to processes
Binaries were built on SuSE Linux Enterprise Server 9 SP3 64-bit

Base Compiler Invocation

C benchmarks:
pathcc

C++ benchmarks:
pathCC

Continued on next page
Dell Inc.
PowerEdge 2970 (AMD Opteron 2212 HE, 2.00GHz)

SPECfp_rate2006 = Not Run
SPECfp_rate_base2006 = 37.3

CPU2006 license: 55
Test sponsor: Dell Inc.
Tested by: Dell Inc.
Test date: Mar-2007
Hardware Availability: Apr-2007
Software Availability: Aug-2006

Base Compiler Invocation (Continued)

Fortran benchmarks:
pathf95

Benchmarks using both Fortran and C:
pathcc pathf95

Base Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64
436.cactusADM: -DSPEC_CPU_LP64 -fno-second-underscore
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64 -DSPEC_CPU_TABLE_WORKAROUND
450.soplex: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX -fno-second-underscore
482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:

-Ofast

C++ benchmarks:

-Ofast

Fortran benchmarks:

-Ofast

Benchmarks using both Fortran and C:

-Ofast

Base Other Flags

C benchmarks:

~IPA:max_jobs=2

Continued on next page
Dell Inc.

PowerEdge 2970 (AMD Opteron 2212 HE, 2.00GHz)

SPECfp_rate2006 = Not Run
SPECfp_rate_base2006 = 37.3

CPU2006 license: 55
Test sponsor: Dell Inc.
Tested by: Dell Inc.

Test date: Mar-2007
Hardware Availability: Apr-2007
Software Availability: Aug-2006

Base Other Flags (Continued)

C++ benchmarks:
   -IPA:max_jobs=2

Fortran benchmarks:
   -IPA:max_jobs=2

Benchmarks using both Fortran and C:
   -IPA:max_jobs=2

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.25.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.25.xml

SPEC and SPECfp are registered trademarks of the Standard Performance
Evaluation Corporation. All other brand and product names appearing in
this result are trademarks or registered trademarks of their respective
holders.

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Sep 13 11:17:38 2016 by SPEC CPU2006 PS/PDF formatter v6932.