Bull SAS
NovaScale R410
(Intel Xeon processor 3040, 1.86GHz)

**SPECfp®2006 = 12.5**
**SPECfp_base2006 = 12.3**

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU Name: Intel Xeon 3040</td>
<td>Operating System: SuSE Linux Enterprise Server 10 (EM64T) kernel 2.6.16.21-0.8-smp</td>
</tr>
<tr>
<td>CPU Characteristics: 1.86 GHz, 4 MB L2, 1066 MHz system bus</td>
<td>Compiler: Intel C++ Compiler for Intel EM64T-based applications, Version 9.1</td>
</tr>
<tr>
<td>CPU MHz: 1860</td>
<td>Package ID l_cc_c_9.1.045 Build no 20061101 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1</td>
</tr>
<tr>
<td>FPU: Integrated</td>
<td>Package ID l_fc_c_9.1.040 Build no 20061101</td>
</tr>
<tr>
<td>CPU(s) enabled: 1 core, 1 chip, 2 cores/chip</td>
<td>Auto Parallel: No</td>
</tr>
<tr>
<td>CPU(s) orderable: 1 chip</td>
<td></td>
</tr>
</tbody>
</table>
SPEC CFP2006 Result

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CPU2006 license: 20
Test sponsor: Bull SAS
Tested by: Bull SAS

L3 Cache: None
Other Cache: None
Memory: 8 GB (4x2 GB) PC2-5300E ECC CL5
Disk Subsystem: 1x80 GB SATA, 10000 RPM
Other Hardware: None

File System: ext2
System State: Multi-user run level 3
Base Pointers: 64-bit
Peak Pointers: 32/64-bit
Other Software: None

Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Base</th>
<th>Peak</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Seconds</td>
<td>Ratio</td>
</tr>
<tr>
<td>416.gamess</td>
<td>1526</td>
<td>12.8</td>
</tr>
<tr>
<td>433.milc</td>
<td>868</td>
<td>10.6</td>
</tr>
<tr>
<td>434.rivesmp</td>
<td>791</td>
<td>11.5</td>
</tr>
<tr>
<td>435.gromacs</td>
<td>627</td>
<td>11.4</td>
</tr>
<tr>
<td>436.cactusADM</td>
<td>805</td>
<td>14.8</td>
</tr>
<tr>
<td>437.leslie3d</td>
<td>861</td>
<td>10.9</td>
</tr>
<tr>
<td>447.dealII</td>
<td>632</td>
<td>18.1</td>
</tr>
<tr>
<td>450.soplex</td>
<td>741</td>
<td>11.3</td>
</tr>
<tr>
<td>453.povray</td>
<td>414</td>
<td>12.9</td>
</tr>
<tr>
<td>454.calculix</td>
<td>819</td>
<td>10.1</td>
</tr>
<tr>
<td>459.GemsFDTD</td>
<td>972</td>
<td>10.9</td>
</tr>
<tr>
<td>465.tonto</td>
<td>978</td>
<td>10.1</td>
</tr>
<tr>
<td>470.lbm</td>
<td>1184</td>
<td>11.6</td>
</tr>
<tr>
<td>481.wrf</td>
<td>859</td>
<td>13.0</td>
</tr>
<tr>
<td>482.sphinx3</td>
<td>1490</td>
<td>13.1</td>
</tr>
</tbody>
</table>

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

Operating System Notes
Environment stack size set to 'unlimited'
system was booted uniprocessor by setting "maxcpus=0"
kernel parameter in menu.lst

Base Compiler Invocation
C benchmarks:
`icc`
C++ benchmarks:
`icpc`

Continued on next page
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SPECfp2006 = 12.5
SPECfp_base2006 = 12.3

CPU2006 license: 20
Test date: Jun-2007
Test sponsor: Bull SAS
Hardware Availability: Jun-2007
Tested by: Bull SAS
Software Availability: Dec-2006

Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

Base Portability Flags

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

Base Optimization Flags

C benchmarks:
- fast

C++ benchmarks:
- fast

Fortran benchmarks:
- fast

Benchmarks using both Fortran and C:
- fast

Peak Compiler Invocation

C benchmarks:
icc

Continued on next page
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Software Availability: Dec-2006

Peak Compiler Invocation (Continued)

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

C++ benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

Fortran benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast

Benchmarks using both Fortran and C:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/EM64T_Intel91_flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/EM64T_Intel91_flags.xml

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

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