SPEC has determined that this result was not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the submitter reported that the result used pre-production hardware and the production hardware would reduce production system performance by more than 1.75%. Asus will republish these results with production hardware.
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---

Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Base Seconds</th>
<th>Base Ratio</th>
<th>Peak Seconds</th>
<th>Peak Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>410.bwaves</td>
<td>NC</td>
<td>NC</td>
<td>NC</td>
<td>NC</td>
</tr>
<tr>
<td>416.gamess</td>
<td>NC</td>
<td>NC</td>
<td>NC</td>
<td>NC</td>
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<tr>
<td>433.milc</td>
<td>NC</td>
<td>NC</td>
<td>NC</td>
<td>NC</td>
</tr>
<tr>
<td>434.zeusmp</td>
<td>NC</td>
<td>NC</td>
<td>NC</td>
<td>NC</td>
</tr>
<tr>
<td>435.gromacs</td>
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<td>NC</td>
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<tr>
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<td>444.namd</td>
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<td>NC</td>
<td>NC</td>
<td>NC</td>
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<tr>
<td>447.dealII</td>
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<td>NC</td>
<td>NC</td>
<td>NC</td>
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<tr>
<td>459.GemsFDTD</td>
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<td>NC</td>
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<td>465.tonto</td>
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<tr>
<td>481.wrf</td>
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<td>NC</td>
</tr>
<tr>
<td>482.openmpS</td>
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<td>NC</td>
<td>NC</td>
</tr>
</tbody>
</table>

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

---

Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"

Platform Notes

Sysinfo program /cpu2006/config/sysinfo_rev6800
$Rev: 6800 $ $Date:: 2011-10-11 #$ 6f2ebdff5032aaa42e583f96b07f99d3
running on localhost Mon Jul 9 21:00:38 2012

Continued on next page
SPEC has determined that this result was not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the submitter reported that the result used pre-production hardware and the production hardware would reduce production system performance by more than 1.75%. Asus will republish these results with production hardware.
SPECFp2006 = NC
SPECFp_base2006 = NC

SPEC has determined that this result was not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the submitter reported that the result used pre-production hardware and the production hardware would reduce production system performance by more than 1.75%. Asus will republish these results with production hardware.
# SPEC CFP2006 Result

## ASUSTeK Computer Inc.

ASUS RS920-E7(Z9PX-Q32) Server System (Intel Xeon E5-4650)

<table>
<thead>
<tr>
<th>SPECfp2006</th>
<th>NC</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECfp_base2006</td>
<td>NC</td>
</tr>
</tbody>
</table>

**CPU2006 license:** 9016  
**Test sponsor:** ASUSTeK Computer Inc.  
**Tested by:** ASUSTeK Computer Inc.  
**Test date:** Jul-2012  
**Hardware Availability:** May-2012  
**Software Availability:** Dec-2011

SPEC has determined that this result was not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the submitter reported that the result used pre-production hardware and the production hardware would reduce production system performance by more than 1.75%. Asus will republish these results with production hardware.

## 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 -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:

- xAVX -ipo -03 -no-prec-div -static -parallel -opt-prefetch
- -ansi-alias

### C++ benchmarks:

- xAVX -ipo -03 -no-prec-div -static -opt-prefetch -ansi-alias

### Fortran benchmarks:

- xAVX -ipo -03 -no-prec-div -static -parallel -opt-prefetch

### Benchmarks using both Fortran and C:

- xAVX -ipo -03 -no-prec-div -static -parallel -opt-prefetch
- -ansi-alias
SPEC has determined that this result was not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the submitter reported that the result used pre-production hardware and the production hardware would reduce production system performance by more than 1.75%. Asus will republish these results with production hardware.

Peak Compiler Invocation

C benchmarks:

\texttt{icc -m64}

C++ benchmarks:

\texttt{icpc -m64}

Fortran benchmarks:

\texttt{ifort -m64}

Benchmarks using both Fortran and C:

\texttt{icc -m64 ifort -m64}

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

\texttt{433.milc -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)}
\texttt{-no-prec-div(pass 2) -prof-use(pass 2) -static -auto-ilp32 -ansi-alias}
\texttt{-O3(pass 2) -no-prec-div -ipo -prof-use(pass 2) -static -auto-ilp32 -ansi-alias}
\texttt{-parallel}

\texttt{470.lbm: basepeak = yes}

\texttt{482.sphinx3: -xAVX -ipo -O3 -no-prec-div -unroll2 -ansi-alias -parallel}

C++ benchmarks:

\texttt{444.namd -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)}
\texttt{-no-prec-div(pass 2) -prof-use(pass 2) -fno-alias -auto-ilp32}

Continued on next page
SPEC has determined that this result was not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the submitter reported that the result used pre-production hardware and the production hardware would reduce production system performance by more than 1.75%. Asus will republish these results with production hardware.

Peak Optimization Flags (Continued)

```plaintext
447.dealII: basepeak = yes
450.soplex: basepeak = yes
453.povray: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
            -no-prec-div(pass 2) -prof-use(pass 2) -unroll4 -ansi-alias

Fortran benchmarks:

410.bwaves: -xAVX -ipo -O3 -no-prec-div -opt-prefetch -parallel
            -static
416.gamess: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
            -no-prec-div(pass 2) -prof-use(pass 2) -unroll2
            -inline-level=0 -scalar-rep -static
434.zeusmp: basepeak = yes
437.leslie3d: basepeak = yes
459.GemCEDTD: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
            -no-prec-div(pass 2) -prof-use(pass 2) -unroll2
            -inline-level=0 -opt-prefetch -parallel
465.tonto: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
            -no-prec-div(pass 2) -prof-use(pass 2) -inline-calloc
            -opt-malloc-options=3 -auto -unroll4

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes
436.cactusADM: basepeak = yes
```

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SPEC has determined that this result was not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the submitter reported that the result used pre-production hardware and the production hardware would reduce production system performance by more than 1.75%. Asus will republish these results with production hardware.

Peak Optimization Flags (Continued)

454.calculix: -xAVX -ipo -O3 -no-prec-div -auto -lp32 -ansi-alias

481.wrf: basepeak = yes

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.html
http://www.spec.org/cpu2006/flags/ASUSTekPlatform.20120313.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.xml
http://www.spec.org/cpu2006/flags/ASUSTekPlatform.20120313.xml

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

Tested with SPEC CPU2006 v1.2.
Originally published on 14 August 2012.