

# SPEC<sup>®</sup> CFP2006 Result

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aws  
m3.2xlarge

SPECfp<sup>®</sup>\_rate2006 = Not Run

SPECfp\_rate\_base2006 = 128

CPU2006 license: 4093

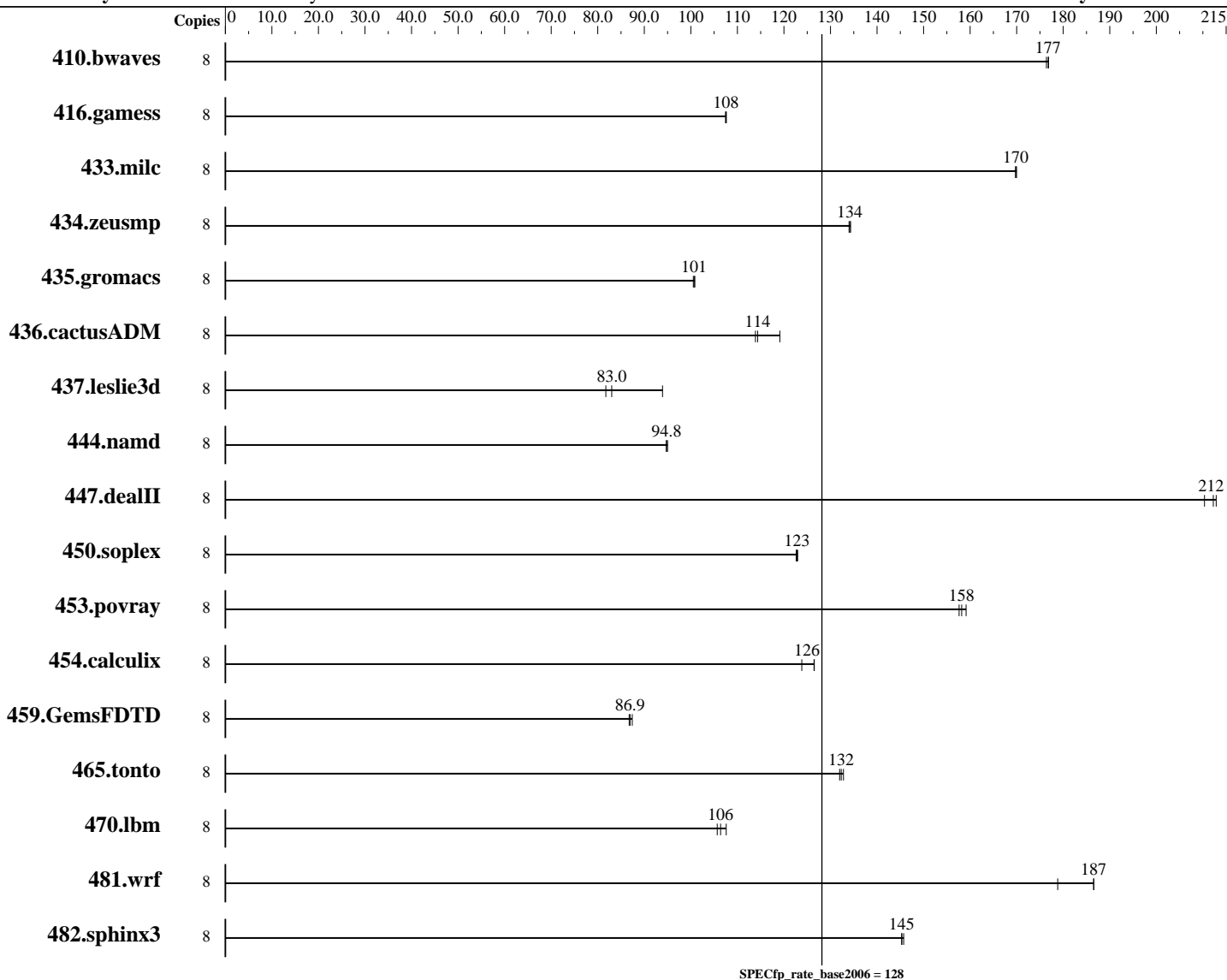
Test date: May-2013

Test sponsor: aws

Hardware Availability: --

Tested by: CloudHarmony Inc

Software Availability: --



## Hardware

CPU Name: Intel Xeon E5-2670 0  
 CPU Characteristics: Intel Xeon E5-2670 0 2.60GHz  
 CPU MHz: 2599.858  
 FPU: --  
 CPU(s) enabled: 8 cores, 1 chip, 1 core/chip  
 CPU(s) orderable: --  
 Primary Cache: --  
 Secondary Cache: 20480 KB

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## Software

Operating System: Amazon Linux AMI release 2013.03  
 3.4.37-40.44.amzn1.x86\_64  
 Compiler: Intel C++ Compiler for Linux version 12.1.5  
 Intel Parallel Studio XE 2011 SP1 Update 3  
 Intel Fortran Compiler for Linux version 12.1.5  
 Intel Parallel Studio XE 2011 SP1 Update 3  
 Auto Parallel: No  
 File System: ext4  
 System State: Run level 3 (add definition here)

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L3 Cache: --  
Other Cache: --  
Memory: 28.459 GB fixme: If using DDR3, format is:  
'N GB (M x N GB nRxn PCn-nnnnnR-n, ECC)'  
Disk Subsystem: 1008 GB add more disk info here  
Other Hardware: --

Base Pointers: --  
Peak Pointers: Not Applicable  
Other Software: --

## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	<b>615</b>	<b>177</b>	615	177	616	176							
416.gamess	8	1455	108	<b>1456</b>	<b>108</b>	1458	107							
433.milc	8	<b>433</b>	<b>170</b>	433	170	432	170							
434.zeusmp	8	542	134	543	134	<b>543</b>	<b>134</b>							
435.gromacs	8	566	101	568	101	<b>567</b>	<b>101</b>							
436.cactusADM	8	803	119	<b>836</b>	<b>114</b>	839	114							
437.leslie3d	8	<b>906</b>	<b>83.0</b>	920	81.7	801	93.9							
444.namd	8	<b>677</b>	<b>94.8</b>	675	95.0	677	94.7							
447.dealII	8	435	210	<b>431</b>	<b>212</b>	430	213							
450.soplex	8	544	123	543	123	<b>543</b>	<b>123</b>							
453.povray	8	270	158	<b>269</b>	<b>158</b>	267	159							
454.calculix	8	522	127	<b>522</b>	<b>126</b>	533	124							
459.GemsFDTD	8	978	86.8	<b>976</b>	<b>86.9</b>	971	87.4							
465.tonto	8	<b>595</b>	<b>132</b>	597	132	593	133							
470.ibm	8	1022	108	1040	106	<b>1033</b>	<b>106</b>							
481.wrf	8	500	179	479	187	<b>479</b>	<b>187</b>							
482.sphinx3	8	<b>1073</b>	<b>145</b>	1073	145	1070	146							

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

## Submit Notes

The config file option 'submit' was used.

## Platform Notes

Sysinfo program /opt/cpu2006/Docs/sysinfo  
\$Rev: 6775 \$ \$Date:: 2011-08-16 #\$ 8787f7622badcf24e01c368b1db4377c  
running on ip-10-159-31-207 Mon May 13 05:41:46 2013

This section contains SUT (System Under Test) info as seen by some common utilities. To remove or add to this section, see:  
<http://www.spec.org/cpu2006/Docs/config.html#sysinfo>

From /proc/cpuinfo

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## Platform Notes (Continued)

```
model name : Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz
 1 "physical id"s (chips)
 8 "processors"
cores, siblings (Caution: counting these is hw and system dependent. The
following excerpts from /proc/cpuinfo might not be reliable. Use with
caution.)
  cpu cores : 8
  siblings  : 8
  physical 0: cores 0 1 2 3 4 5 6 7
cache size : 20480 KB
```

```
From /proc/meminfo
MemTotal:      29841780 kB
HugePages_Total: 0
Hugepagesize:  2048 kB
```

```
From /etc/*release* /etc/*version*
system-release: Amazon Linux AMI release 2013.03
system-release-cpe: cpe:/o:amazon:linux:2013.03:ga
```

```
uname -a:
Linux ip-10-159-31-207 3.4.37-40.44.amzn1.x86_64 #1 SMP Thu Mar 21 01:17:08
UTC 2013 x86_64 x86_64 x86_64 GNU/Linux
```

```
run-level 3 May 13 05:40
```

```
SPEC is set to: /opt/cpu2006
Filesystem      Type      Size      Used Avail Use% Mounted on
/dev/xvdh       ext4     1008G     15G  943G   2% /opt
```

(End of data from sysinfo program)

## General Notes

Environment variables set by runspec before the start of the run:  
LD\_LIBRARY\_PATH = "/opt/cpu2006/libs/32:/opt/cpu2006/libs/64"

## Base Compiler Invocation

C benchmarks:  
icc -m32

C++ benchmarks:  
icpc -m32

Fortran benchmarks:  
ifort -m32

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## Base Compiler Invocation (Continued)

Benchmarks using both Fortran and C:  
icc -m32 ifort -m32

## Base Portability Flags

435.gromacs: -nofor\_main  
436.cactusADM: -nofor\_main  
454.calculix: -nofor\_main  
481.wrf: -DSPEC\_CPU\_CASE\_FLAG -DSPEC\_CPU\_LINUX

## Base Optimization Flags

C benchmarks:  
-xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch -auto-p32  
-ansi-alias

C++ benchmarks:  
-xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch -auto-p32

Fortran benchmarks:  
-xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch

Benchmarks using both Fortran and C:  
-xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch -auto-p32  
-ansi-alias

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.2.  
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