

# SPEC<sup>®</sup> CFP2006 Result

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aws  
m3.xlarge

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

SPECfp\_rate\_base2006 = 71.8

CPU2006 license: 4093

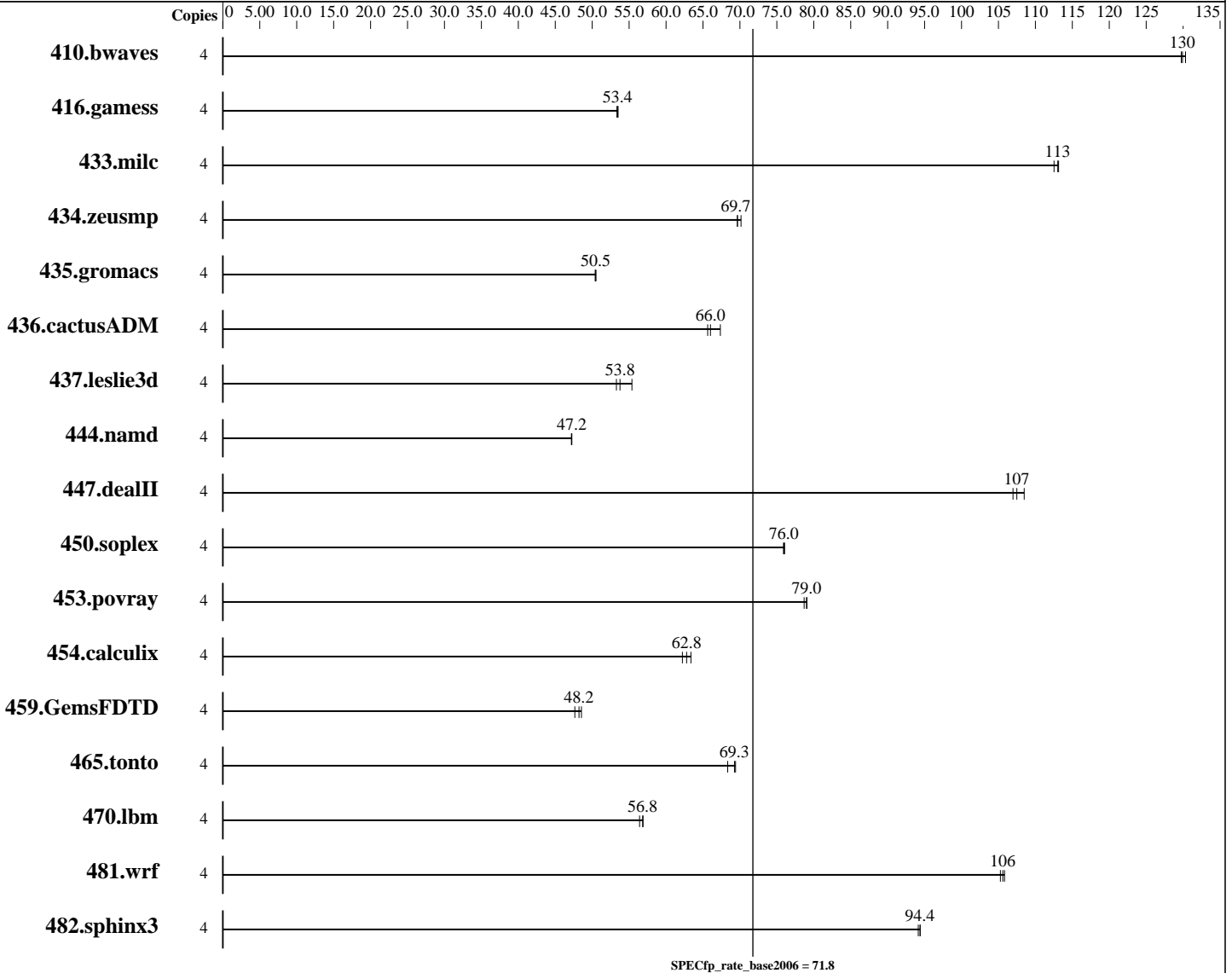
Test sponsor: aws

Tested by: CloudHarmony Inc

Test date: May-2013

Hardware Availability: --

Software Availability: --



## Hardware

CPU Name: Intel Xeon E5-2670 0  
 CPU Characteristics: Intel Xeon E5-2670 0 2.60GHz  
 CPU MHz: 2600.223  
 FPU: --  
 CPU(s) enabled: 4 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: 13.694 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	4	417	130	419	130	<b>418</b>	<b>130</b>									
416.gamess	4	1464	53.5	1468	53.4	<b>1466</b>	<b>53.4</b>									
433.milc	4	325	113	326	113	<b>325</b>	<b>113</b>									
434.zeusmp	4	519	70.2	<b>522</b>	<b>69.7</b>	523	69.7									
435.gromacs	4	565	50.5	<b>566</b>	<b>50.5</b>	567	50.4									
436.cactusADM	4	710	67.4	728	65.6	<b>724</b>	<b>66.0</b>									
437.leslie3d	4	706	53.3	679	55.4	<b>699</b>	<b>53.8</b>									
444.namd	4	679	47.2	<b>679</b>	<b>47.2</b>	680	47.2									
447.dealII	4	422	108	<b>426</b>	<b>107</b>	428	107									
450.soplex	4	440	75.9	439	76.1	<b>439</b>	<b>76.0</b>									
453.povray	4	<b>269</b>	<b>79.0</b>	269	79.1	270	78.7									
454.calculix	4	521	63.4	530	62.2	<b>526</b>	<b>62.8</b>									
459.GemsFDTD	4	891	47.7	874	48.5	<b>880</b>	<b>48.2</b>									
465.tonto	4	576	68.3	<b>568</b>	<b>69.3</b>	567	69.4									
470.lbm	4	974	56.4	<b>967</b>	<b>56.8</b>	966	56.9									
481.wrf	4	422	106	<b>423</b>	<b>106</b>	424	105									
482.sphinx3	4	<b>826</b>	<b>94.4</b>	828	94.1	826	94.4									

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-10-142-131-89 Mon May 13 05:41:45 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)
 4 "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 : 4
  siblings  : 4
  physical 0: cores 0 1 2 3
cache size : 20480 KB
```

```
From /proc/meminfo
MemTotal:      14359396 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-10-142-131-89 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 05:39
```

```
SPEC is set to: /opt/cpu2006
Filesystem      Type      Size      Used Avail Use% Mounted on
/dev/xvdh       ext4     1008G     11G  947G   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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