

# SPEC<sup>®</sup> CFP2006 Result

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aws  
m1.large

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

SPECfp\_rate\_base2006 = 34.8

CPU2006 license: 4093

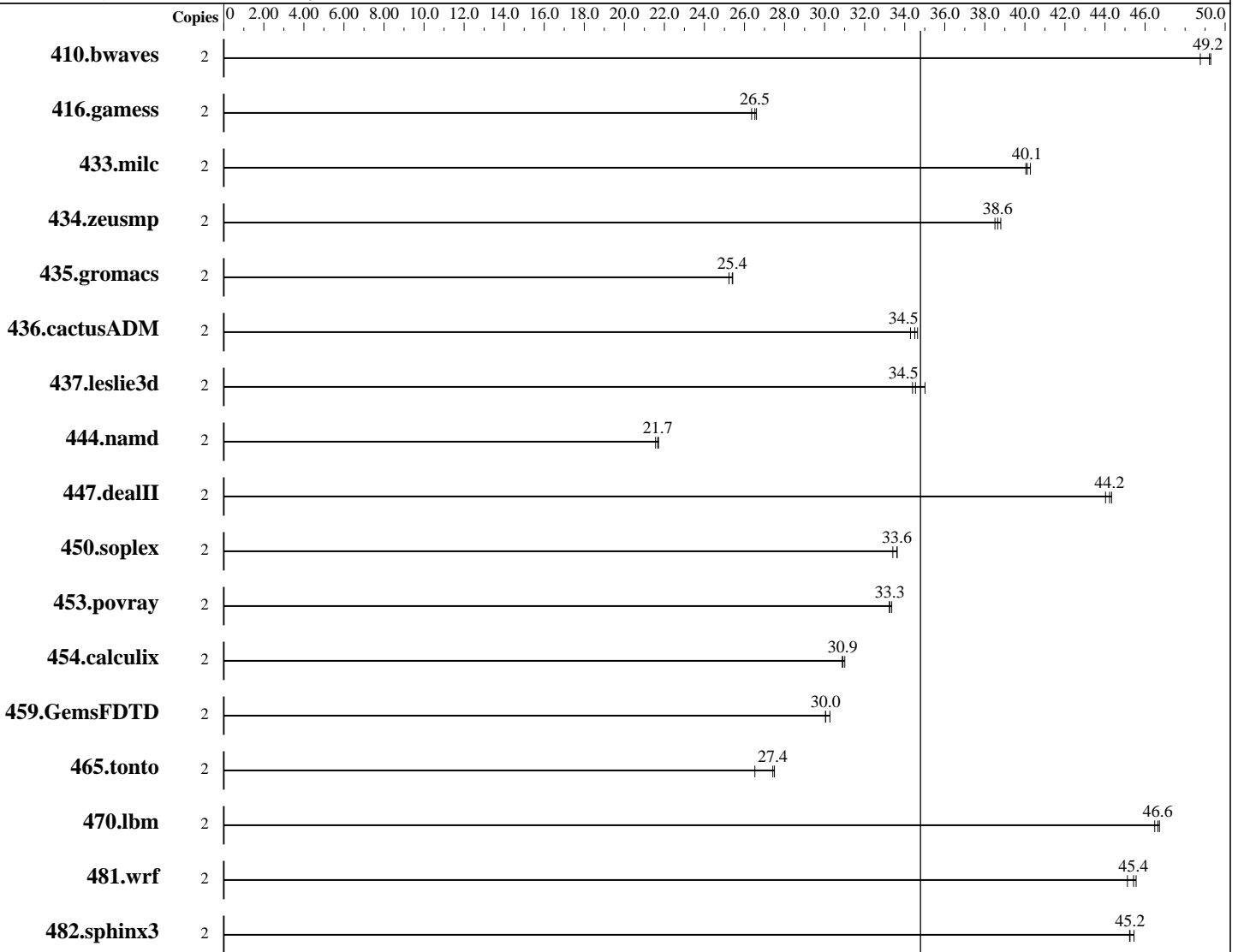
Test sponsor: aws

Tested by: CloudHarmony Inc

Test date: May-2013

Hardware Availability: --

Software Availability: --



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## Hardware

CPU Name: Intel Xeon E5645  
 CPU Characteristics: Intel Xeon E5645 2.40GHz  
 CPU MHz: 2000.07  
 FPU: --  
 CPU(s) enabled: 2 cores, 1 chip, 1 core/chip  
 CPU(s) orderable: --  
 Primary Cache: --  
 Secondary Cache: 12288 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: 7.280 GB fixme: If using DDR3, format is:  
'N GB (M x N GB nRxn PCn-nnnnnR-n, ECC)'  
Disk Subsystem: 827 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	2	557	48.8	<b>552</b>	<b>49.2</b>	552	49.3									
416.gamess	2	1486	26.4	<b>1477</b>	<b>26.5</b>	1472	26.6									
433.milc	2	458	40.0	456	40.3	<b>458</b>	<b>40.1</b>									
434.zeusmp	2	473	38.5	469	38.8	<b>471</b>	<b>38.6</b>									
435.gromacs	2	566	25.2	562	25.4	<b>562</b>	<b>25.4</b>									
436.cactusADM	2	697	34.3	<b>693</b>	<b>34.5</b>	690	34.6									
437.leslie3d	2	547	34.4	<b>544</b>	<b>34.5</b>	537	35.0									
444.namd	2	744	21.6	<b>740</b>	<b>21.7</b>	739	21.7									
447.dealII	2	<b>517</b>	<b>44.2</b>	516	44.3	520	44.0									
450.soplex	2	499	33.4	<b>496</b>	<b>33.6</b>	496	33.6									
453.povray	2	320	33.2	319	33.4	<b>320</b>	<b>33.3</b>									
454.calculix	2	<b>534</b>	<b>30.9</b>	532	31.0	534	30.9									
459.GemsFDTD	2	<b>706</b>	<b>30.0</b>	701	30.3	706	30.0									
465.tonto	2	<b>718</b>	<b>27.4</b>	716	27.5	742	26.5									
470.lbm	2	591	46.5	<b>589</b>	<b>46.6</b>	588	46.7									
481.wrf	2	495	45.1	490	45.6	<b>492</b>	<b>45.4</b>									
482.sphinx3	2	<b>861</b>	<b>45.2</b>	858	45.4	862	45.2									

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-10-68-13-250 Mon May 13 05:40:15 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 E5645 @ 2.40GHz
 1 "physical id"s (chips)
 2 "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 : 1
  siblings  : 2
  physical 0: cores 0
cache size : 12288 KB
```

```
From /proc/meminfo
MemTotal:      7633616 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-10-68-13-250 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/md127      ext4      827G  8.4G  777G   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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