

# SPEC<sup>®</sup> CFP2006 Result

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aws  
cc2.8xlarge

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

SPECfp\_rate\_base2006 = 358

CPU2006 license: 4093

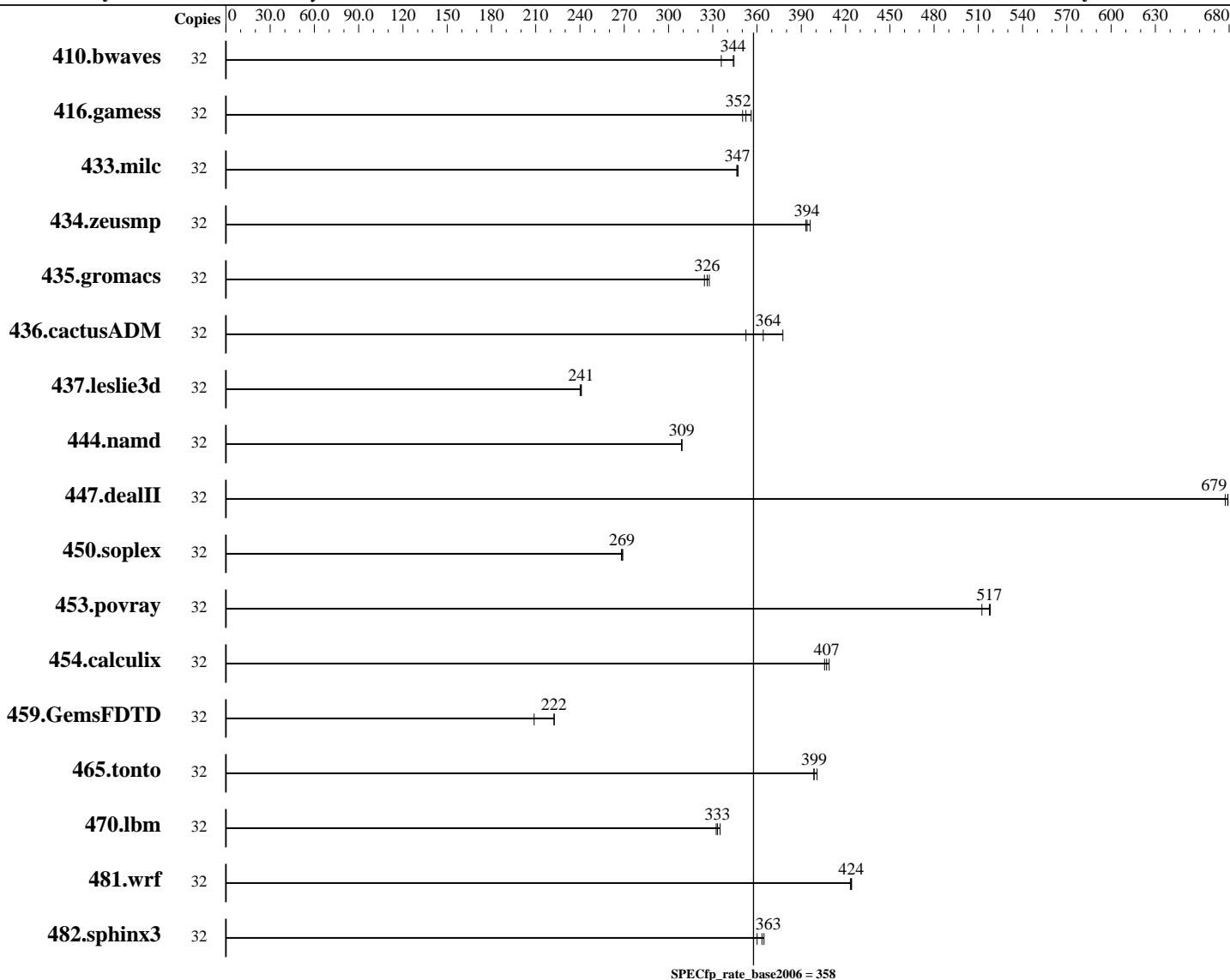
Test date: May-2013

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: 2593.489  
 FPU: --  
 CPU(s) enabled: 32 cores, 2 chips, 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: 58.525 GB fixme: If using DDR3, format is:  
'N GB (M x N GB nRxn PCn-nnnnnR-n, ECC)'  
Disk Subsystem: 3.3 TB 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	32	1295	336	<b><u>1265</u></b>	<b><u>344</u></b>	1263	344									
416.gamess	32	1760	356	1789	350	<b><u>1778</u></b>	<b><u>352</u></b>									
433.milc	32	848	346	<b><u>847</u></b>	<b><u>347</u></b>	846	347									
434.zeusmp	32	741	393	<b><u>739</u></b>	<b><u>394</u></b>	735	396									
435.gromacs	32	704	324	<b><u>700</u></b>	<b><u>326</u></b>	697	328									
436.cactusADM	32	<b><u>1050</u></b>	<b><u>364</u></b>	1013	378	1085	352									
437.leslie3d	32	1248	241	1253	240	<b><u>1250</u></b>	<b><u>241</u></b>									
444.namd	32	831	309	<b><u>831</u></b>	<b><u>309</u></b>	830	309									
447.dealII	32	<b><u>539</u></b>	<b><u>679</u></b>	539	679	540	677									
450.soplex	32	992	269	<b><u>994</u></b>	<b><u>269</u></b>	996	268									
453.povray	32	332	512	329	518	<b><u>329</u></b>	<b><u>517</u></b>									
454.calculix	32	646	409	<b><u>648</u></b>	<b><u>407</u></b>	651	406									
459.GemsFDTD	32	1625	209	<b><u>1527</u></b>	<b><u>222</u></b>	1525	223									
465.tonto	32	<b><u>790</u></b>	<b><u>399</u></b>	790	399	786	401									
470.lbm	32	1313	335	1323	332	<b><u>1319</u></b>	<b><u>333</u></b>									
481.wrf	32	843	424	844	423	<b><u>843</u></b>	<b><u>424</u></b>									
482.sphinx3	32	1710	365	<b><u>1716</u></b>	<b><u>363</u></b>	1732	360									

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-10-155-196-58 Mon May 13 05:43:48 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
 2 "physical id"s (chips)
 32 "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  : 16
  physical 0: cores 0 1 2 3 4 5 6 7
  physical 1: cores 0 1 2 3 4 5 6 7
cache size : 20480 KB
```

```
From /proc/meminfo
MemTotal:      61367984 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-10-155-196-58 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 05:42
```

```
SPEC is set to: /opt/cpu2006
Filesystem      Type      Size  Used Avail Use% Mounted on
/dev/md127      ext4      3.3T   37G  3.1T   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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