# SPEC® CFP2006 Result

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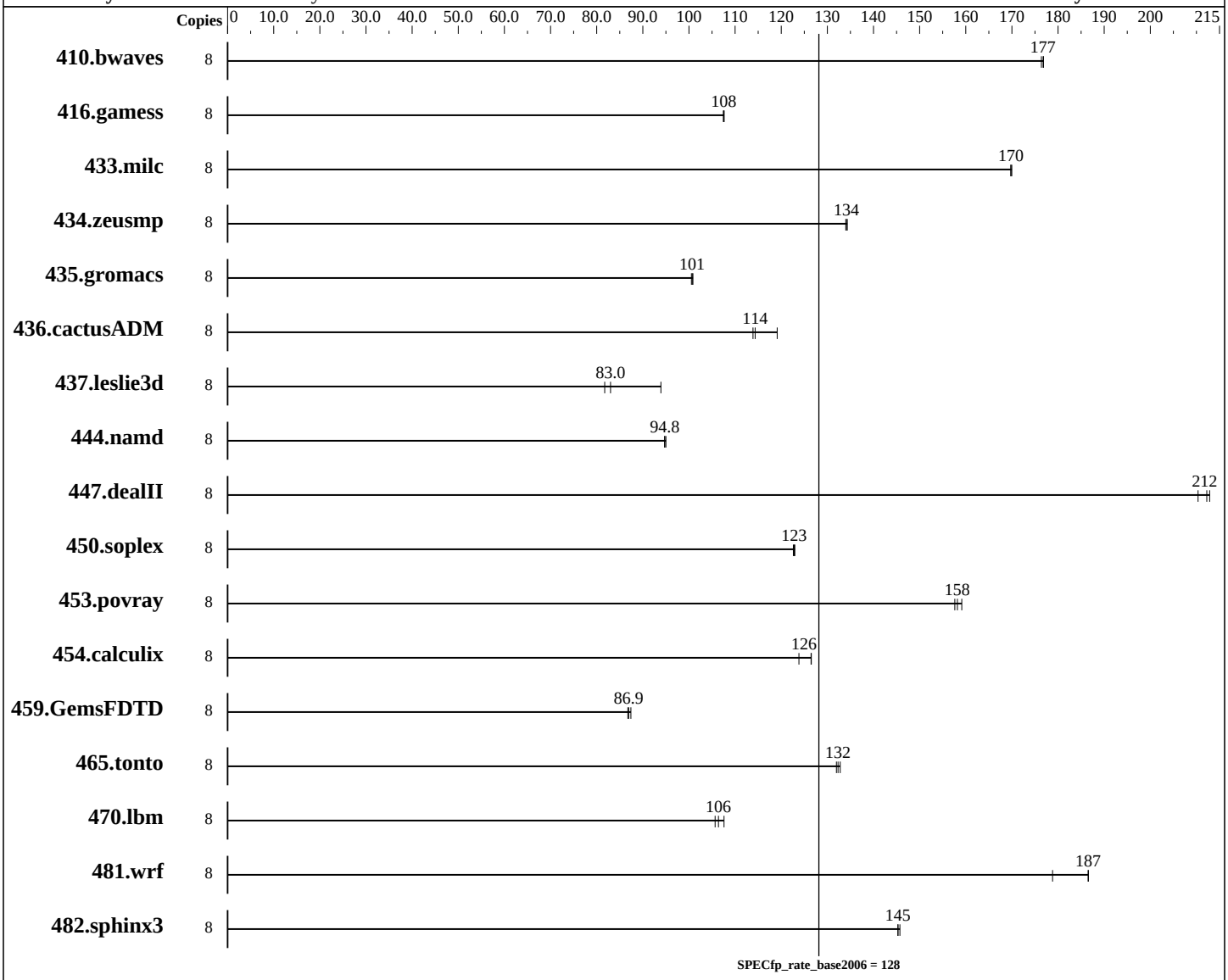
aws
m3.2xlarge

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 128

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

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