

# SPEC<sup>®</sup> CFP2006 Result

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azure  
A4

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

SPECfp\_rate\_base2006 = 77.9

CPU2006 license: 4093

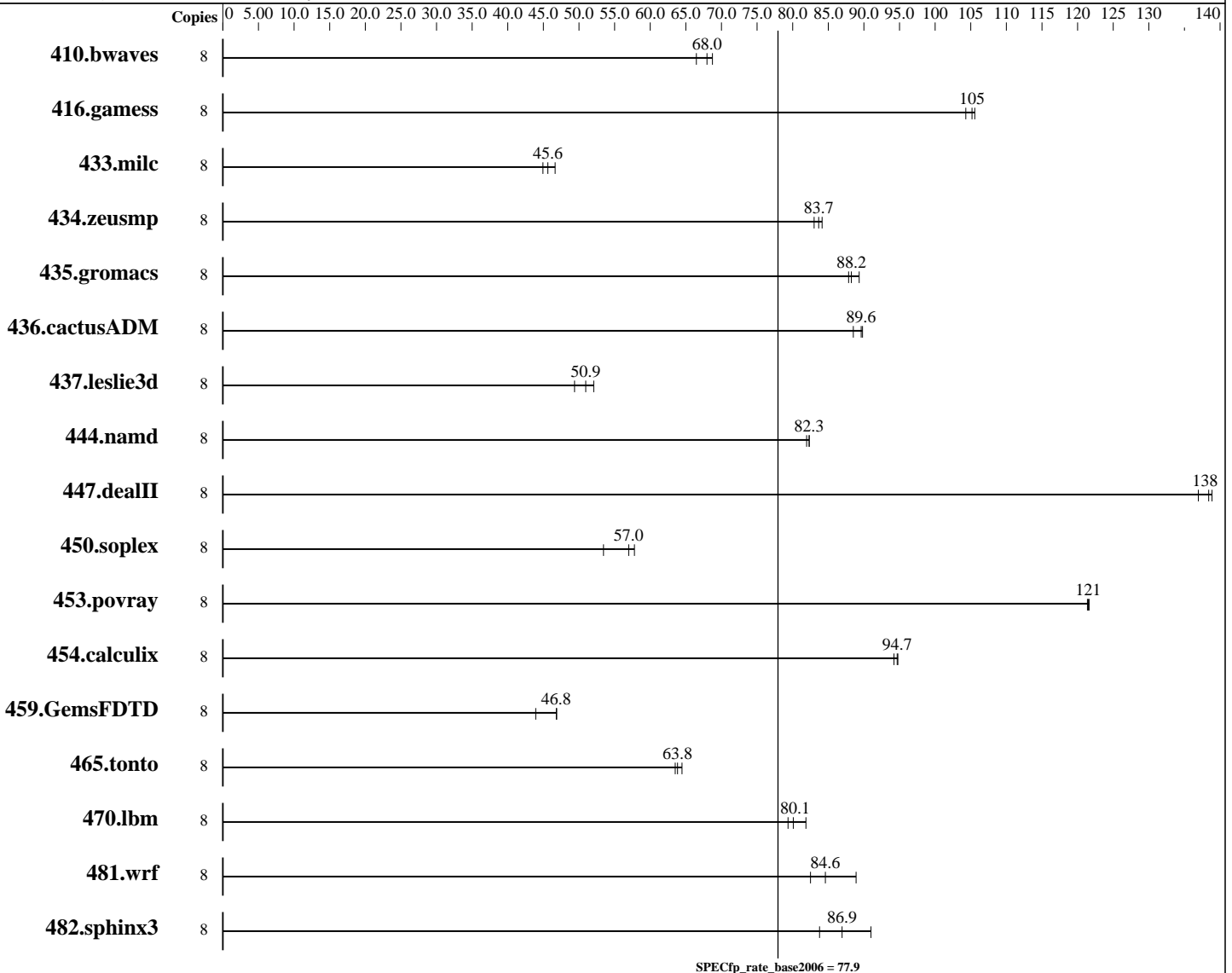
Test sponsor: azure

Tested by: CloudHarmony Inc

Test date: May-2013

Hardware Availability: --

Software Availability: --



## Hardware

CPU Name: AMD Opteron 4171 HE  
 CPU Characteristics: AMD Opteron 4171 HE  
 CPU MHz: 2094.715  
 FPU: --  
 CPU(s) enabled: 8 cores, 2 chips, 1 core/chip  
 CPU(s) orderable: --  
 Primary Cache: --  
 Secondary Cache: 512 KB

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## Software

Operating System: CentOS release 6.3 (Final)  
 2.6.32-279.14.1.el6.openlogic.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: 13.594 GB fixme: If using DDR3, format is:  
'N GB (M x N GB nRxn PCn-nnnnnR-n, ECC)'  
Disk Subsystem: 99 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	1582	68.7	1635	66.5	<b>1600</b>	<b>68.0</b>									
416.gamess	8	1484	106	<b>1489</b>	<b>105</b>	1502	104									
433.milc	8	<b>1610</b>	<b>45.6</b>	1574	46.6	1634	44.9									
434.zeusmp	8	865	84.1	<b>870</b>	<b>83.7</b>	877	83.0									
435.gromacs	8	639	89.3	<b>647</b>	<b>88.2</b>	650	87.9									
436.cactusADM	8	<b>1067</b>	<b>89.6</b>	1065	89.8	1080	88.5									
437.leslie3d	8	<b>1476</b>	<b>50.9</b>	1444	52.1	1523	49.4									
444.namd	8	779	82.3	783	82.0	<b>779</b>	<b>82.3</b>									
447.dealII	8	668	137	659	139	<b>661</b>	<b>138</b>									
450.soplex	8	1249	53.4	1155	57.8	<b>1171</b>	<b>57.0</b>									
453.povray	8	351	121	<b>350</b>	<b>121</b>	350	122									
454.calculix	8	696	94.8	700	94.2	<b>697</b>	<b>94.7</b>									
459.GemsFDTD	8	<b>1813</b>	<b>46.8</b>	1811	46.9	1932	43.9									
465.tonto	8	1221	64.5	1239	63.5	<b>1233</b>	<b>63.8</b>									
470.lbm	8	<b>1373</b>	<b>80.1</b>	1343	81.9	1385	79.3									
481.wrf	8	1005	88.9	<b>1056</b>	<b>84.6</b>	1083	82.5									
482.sphinx3	8	1861	83.8	1714	91.0	<b>1794</b>	<b>86.9</b>									

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 ch-test-xlarge1 Sat May 18 01:47:34 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 : AMD Opteron(tm) Processor 4171 HE
 2 "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 : 4
  siblings  : 4
  physical 0: cores 0 1 2 3
  physical 1: cores 0 1 2 3
 cache size : 512 KB
```

```
From /proc/meminfo
MemTotal:      14254564 kB
HugePages_Total:    0
Hugepagesize:    2048 kB
```

```
/usr/bin/lsb_release -d
CentOS release 6.3 (Final)
```

```
From /etc/*release* /etc/*version*
centos-release: CentOS release 6.3 (Final)
redhat-release: CentOS release 6.3 (Final)
system-release: CentOS release 6.3 (Final)
system-release-cpe: cpe:/o:centos:linux:6:GA
```

```
uname -a:
Linux ch-test-xlarge1 2.6.32-279.14.1.el6.openlogic.x86_64 #1 SMP Wed Dec 12
18:33:43 UTC 2012 x86_64 x86_64 x86_64 GNU/Linux
```

```
run-level 3 May 17 13:55
```

```
SPEC is set to: /opt/cpu2006
Filesystem      Type      Size  Used Avail Use% Mounted on
/dev/sdcl       ext4      99G   15G   80G  16% /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

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## Base Compiler Invocation (Continued)

C++ benchmarks:

icpc -m32

Fortran benchmarks:

ifort -m32

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:

-ipo -O3 -no-prec-div -static -opt-prefetch -auto-p32 -ansi-alias

C++ benchmarks:

-ipo -O3 -no-prec-div -static -opt-prefetch -auto-p32

Fortran benchmarks:

-ipo -O3 -no-prec-div -static -opt-prefetch

Benchmarks using both Fortran and C:

-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.

Report generated on Sun May 19 03:56:51 2013 by SPEC CPU2006 PS/PDF formatter v6401.