

# SPEC<sup>®</sup> CFP2006 Result

Copyright 2006-2013 Standard Performance Evaluation Corporation

rackspace  
4gb

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

SPECfp\_rate\_base2006 = 24.3

CPU2006 license: 4093

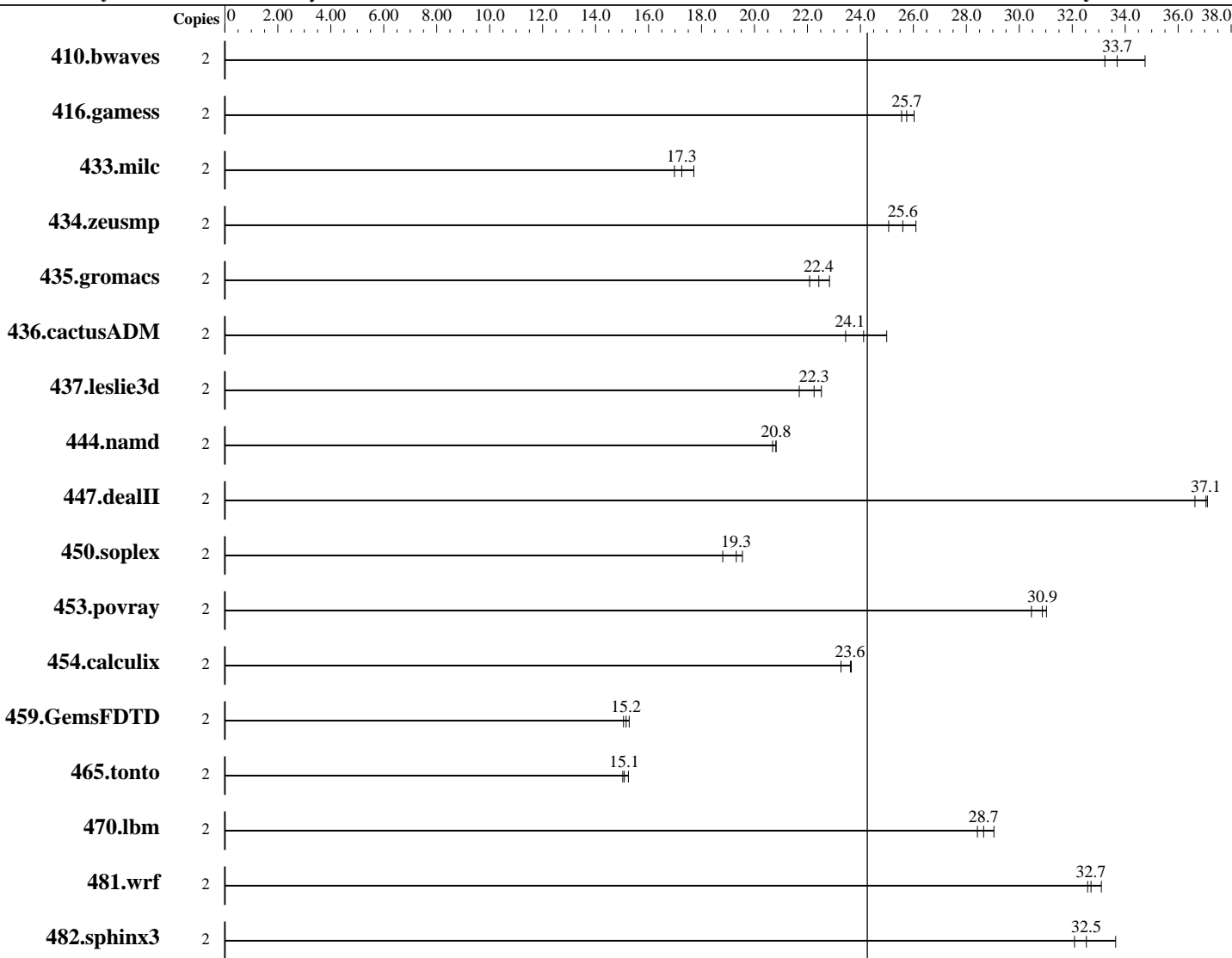
Test sponsor: rackspace

Tested by: CloudHarmony Inc

Test date: May-2013

Hardware Availability: --

Software Availability: --



SPECfp\_rate\_base2006 = 24.3

## Hardware

CPU Name: AMD Opteron 4170 HE  
 CPU Characteristics: AMD Opteron 4170 HE  
 CPU MHz: 2100.034  
 FPU: --  
 CPU(s) enabled: 2 cores, could not determine chips, 1 core/chip  
 CPU(s) orderable: --  
 Primary Cache: --  
 Secondary Cache: 512 KB

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## Software

Operating System: CentOS release 6.4 (Final)  
 2.6.32-358.6.1.el6.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: ext3  
 System State: Run level 3 (add definition here)

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L3 Cache: --  
Other Cache: --  
Memory: 3.790 GB fixme: If using DDR3, format is:  
'N GB (M x N GB nRxn PCn-nnnnnR-n, ECC)'  
Disk Subsystem: 158 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	782	34.7	<b>807</b>	<b>33.7</b>	818	33.2									
416.gamess	2	1505	26.0	1532	25.6	<b>1521</b>	<b>25.7</b>									
433.milc	2	1037	17.7	<b>1064</b>	<b>17.3</b>	1081	17.0									
434.zeusmp	2	697	26.1	<b>711</b>	<b>25.6</b>	726	25.1									
435.gromacs	2	625	22.8	<b>637</b>	<b>22.4</b>	647	22.1									
436.cactusADM	2	956	25.0	<b>991</b>	<b>24.1</b>	1020	23.4									
437.leslie3d	2	835	22.5	<b>845</b>	<b>22.3</b>	867	21.7									
444.namd	2	771	20.8	<b>771</b>	<b>20.8</b>	775	20.7									
447.dealII	2	617	37.1	<b>618</b>	<b>37.1</b>	625	36.6									
450.soplex	2	<b>864</b>	<b>19.3</b>	853	19.5	887	18.8									
453.povray	2	349	30.5	343	31.0	<b>345</b>	<b>30.9</b>									
454.calculix	2	<b>698</b>	<b>23.6</b>	697	23.7	709	23.3									
459.GemsFDTD	2	<b>1400</b>	<b>15.2</b>	1390	15.3	1410	15.1									
465.tonto	2	<b>1305</b>	<b>15.1</b>	1291	15.2	1310	15.0									
470.lbm	2	967	28.4	946	29.0	<b>959</b>	<b>28.7</b>									
481.wrf	2	<b>683</b>	<b>32.7</b>	675	33.1	686	32.6									
482.sphinx3	2	<b>1198</b>	<b>32.5</b>	1159	33.6	1215	32.1									

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 test-4gb Fri May 17 00:41:27 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 4170 HE
*
* 0 "physical id" tags found. Perhaps this is an older system,
* or a virtualized system. Not attempting to guess how to
* count chips/cores for this system.
*
  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.)
  cache size : 512 KB

From /proc/meminfo
MemTotal:      3974560 kB
HugePages_Total:      0
Hugepagesize:    2048 kB

From /etc/*release* /etc/*version*
centos-release: CentOS release 6.4 (Final)
redhat-release: CentOS release 6.4 (Final)
system-release: CentOS release 6.4 (Final)
system-release-cpe: cpe:/o:centos:linux:6:GA

uname -a:
Linux test-4gb 2.6.32-358.6.1.el6.x86_64 #1 SMP Tue Apr 23 19:29:00 UTC 2013
x86_64 x86_64 x86_64 GNU/Linux

run-level 3 May 16 13:23

SPEC is set to: /opt/cpu2006
Filesystem      Type      Size  Used Avail Use% Mounted on
/dev/xvda1      ext3      158G  7.3G  143G   5% /

(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

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## Base Compiler Invocation (Continued)

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.

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