

SPEC[®] CFP2006 Result

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azure
A3

SPECfp[®]_rate2006 = Not Run

SPECfp_rate_base2006 = 46.9

CPU2006 license: 4093

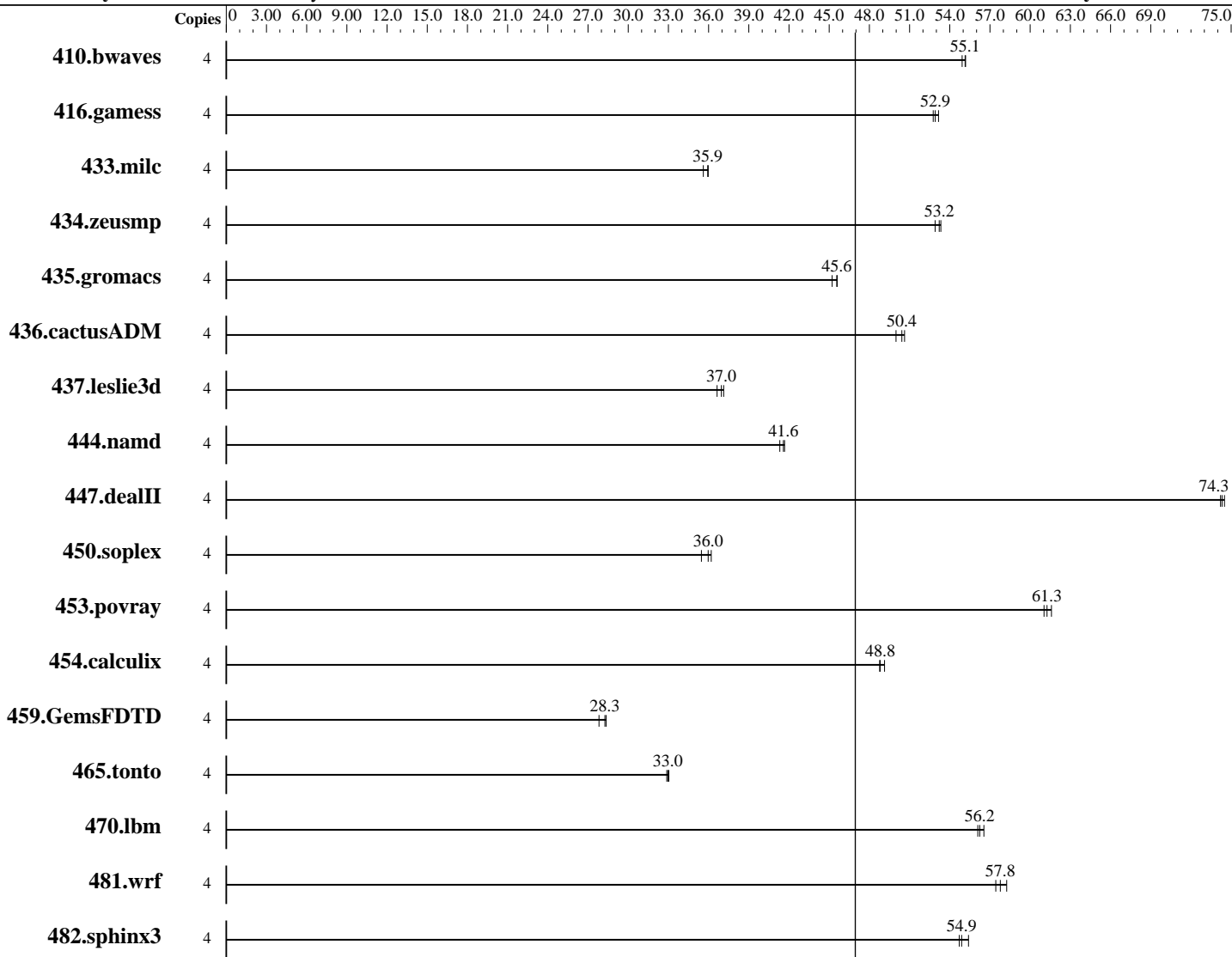
Test date: May-2013

Test sponsor: azure

Hardware Availability: --

Tested by: CloudHarmony Inc

Software Availability: --



Hardware

CPU Name: AMD Opteron 4171 HE
 CPU Characteristics: AMD Opteron 4171 HE
 CPU MHz: 2094.683
 FPU: --
 CPU(s) enabled: 4 cores, 1 chip, 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: 6.693 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	4	985	55.2	986	55.1	990	54.9									
416.gamess	4	1480	52.9	1473	53.2	1484	52.8									
433.milc	4	1021	36.0	1022	35.9	1031	35.6									
434.zeusmp	4	684	53.2	682	53.3	688	52.9									
435.gromacs	4	627	45.6	626	45.6	632	45.2									
436.cactusADM	4	956	50.0	948	50.4	944	50.6									
437.leslie3d	4	1026	36.6	1013	37.1	1018	37.0									
444.namd	4	771	41.6	770	41.7	776	41.3									
447.dealII	4	614	74.5	616	74.3	617	74.2									
450.soplex	4	922	36.2	928	36.0	941	35.5									
453.povray	4	346	61.6	347	61.3	349	61.0									
454.calculix	4	672	49.1	677	48.8	676	48.8									
459.GemsFDTD	4	1497	28.4	1502	28.3	1526	27.8									
465.tonto	4	1191	33.0	1194	33.0	1197	32.9									
470.lbm	4	972	56.5	977	56.2	980	56.1									
481.wrf	4	767	58.2	773	57.8	778	57.4									
482.sphinx3	4	1407	55.4	1425	54.7	1420	54.9									

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-largel Thu May 16 14:03:31 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
  1 "physical id"s (chips)
  4 "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
cache size : 512 KB
```

```
From /proc/meminfo
MemTotal:      7017992 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-large1 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 16 13:36
```

```
SPEC is set to: /opt/cpu2006
Filesystem      Type      Size      Used Avail Use% Mounted on
/dev/sdc1       ext4      99G       5.7G   88G    7% /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 other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.2.
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