

SPEC[®] CFP2006 Result

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azure
A4

SPECfp[®]_rate2006 = Not Run

SPECfp_rate_base2006 = 77.9

CPU2006 license: 4093

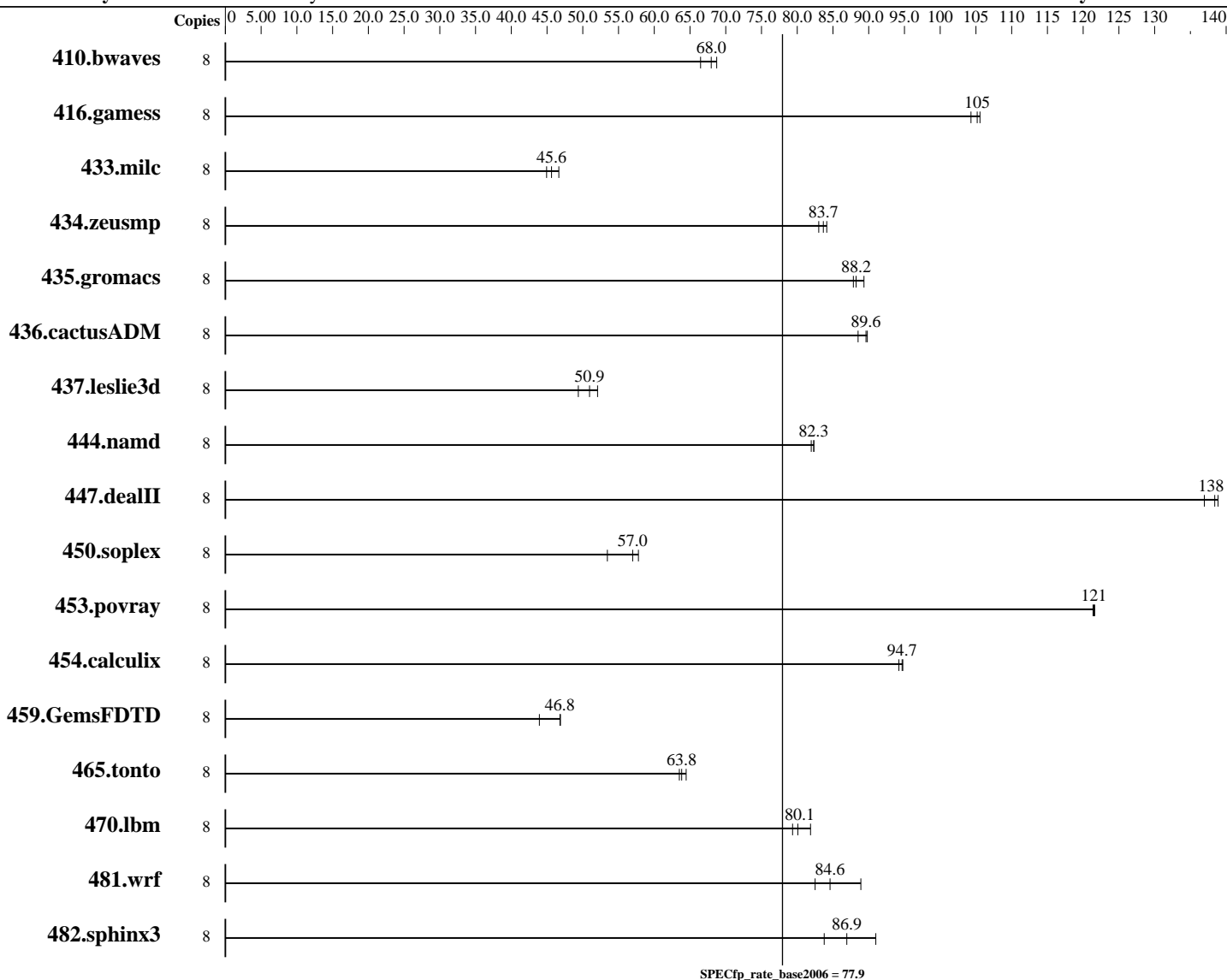
Test date: May-2013

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: 2094.715
 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	1600	68.0									
416.gamess	8	1484	106	1489	105	1502	104									
433.milc	8	1610	45.6	1574	46.6	1634	44.9									
434.zeusmp	8	865	84.1	870	83.7	877	83.0									
435.gromacs	8	639	89.3	647	88.2	650	87.9									
436.cactusADM	8	1067	89.6	1065	89.8	1080	88.5									
437.leslie3d	8	1476	50.9	1444	52.1	1523	49.4									
444.namd	8	779	82.3	783	82.0	779	82.3									
447.dealII	8	668	137	659	139	661	138									
450.soplex	8	1249	53.4	1155	57.8	1171	57.0									
453.povray	8	351	121	350	121	350	122									
454.calculix	8	696	94.8	700	94.2	697	94.7									
459.GemsFDTD	8	1813	46.8	1811	46.9	1932	43.9									
465.tonto	8	1221	64.5	1239	63.5	1233	63.8									
470.lbm	8	1373	80.1	1343	81.9	1385	79.3									
481.wrf	8	1005	88.9	1056	84.6	1083	82.5									
482.sphinx3	8	1861	83.8	1714	91.0	1794	86.9									

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-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 other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.2.
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