SPEC® CFP2006 Result

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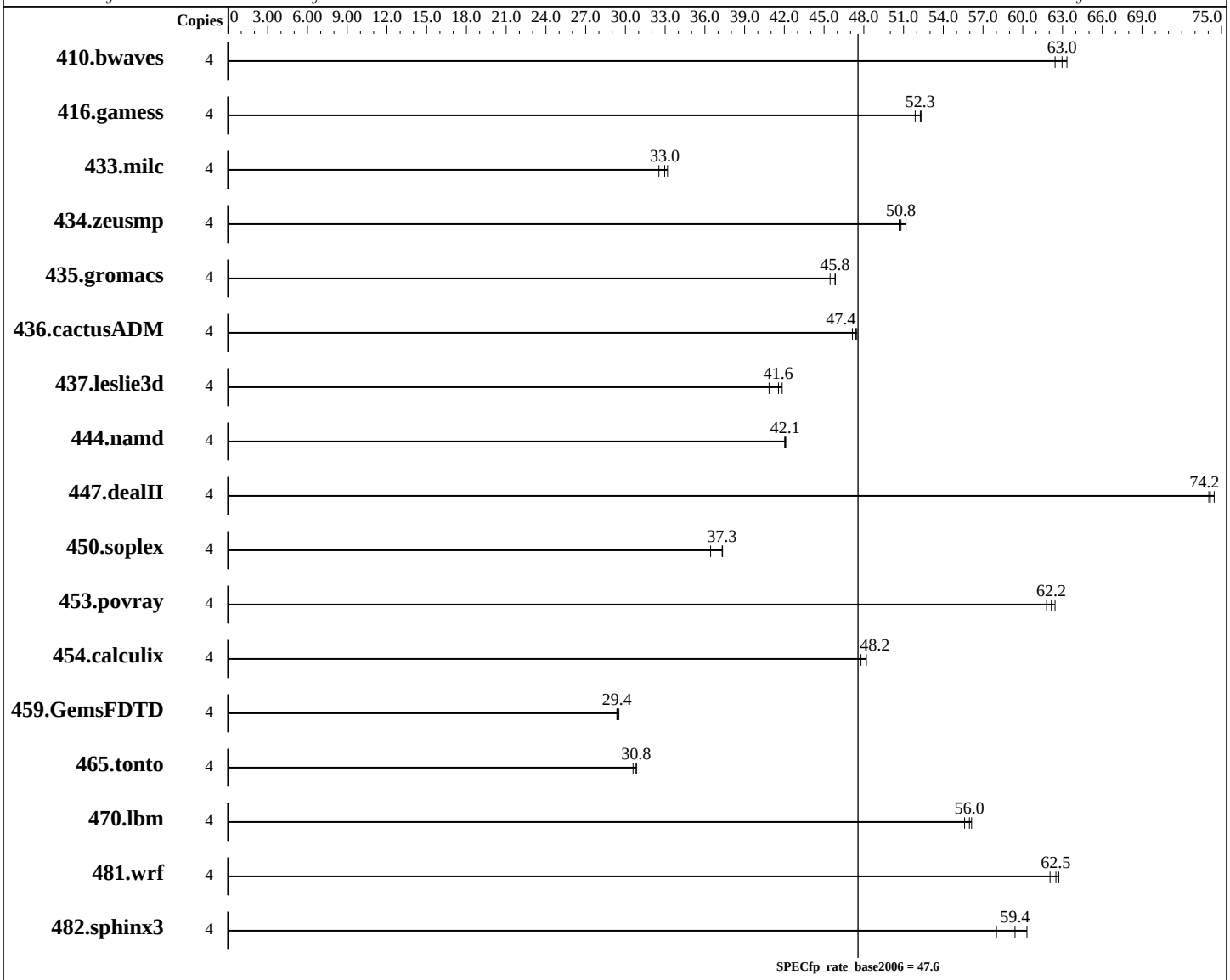
rackspace
8gb

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 47.6

CPU2006 license: 4093
Test sponsor: rackspace
Tested by: CloudHarmony Inc

Test date: May-2013
Hardware Availability: --
Software Availability: --



Hardware

CPU Name:	AMD Opteron 4170 HE
CPU Characteristics:	AMD Opteron 4170 HE
CPU MHz:	2100.072
FPU:	--
CPU(s) enabled:	4 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: 7.657 GB fixme: If using DDR3, format is: 'N GB (M x N GB nRxn PCn-nnnnnR-n, ECC)'
Disk Subsystem: 315 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	871	62.4	858	63.3	**863**	**63.0**							
416.gamess	4	**1499**	**52.3**	1496	52.3	1510	51.9							
433.milc	4	1129	32.5	1107	33.2	**1114**	**33.0**							
434.zeusmp	4	718	50.7	711	51.2	**716**	**50.8**							
435.gromacs	4	628	45.5	623	45.8	**623**	**45.8**							
436.cactusADM	4	1014	47.1	1007	47.5	**1008**	**47.4**							
437.leslie3d	4	920	40.8	899	41.8	**905**	**41.6**							
444.namd	4	763	42.0	**763**	**42.1**	762	42.1							
447.dealII	4	618	74.0	**617**	**74.2**	615	74.4							
450.soplex	4	916	36.4	893	37.3	**894**	**37.3**							
453.povray	4	344	61.8	341	62.4	**342**	**62.2**							
454.calculix	4	691	47.8	**685**	**48.2**	685	48.2							
459.GemsFDTD	4	1445	29.4	**1445**	**29.4**	1438	29.5							
465.tonto	4	1287	30.6	**1278**	**30.8**	1276	30.8							
470.lbm	4	988	55.6	**982**	**56.0**	979	56.1							
481.wrf	4	720	62.1	**715**	**62.5**	712	62.7							
482.sphinx3	4	1344	58.0	**1312**	**59.4**	1293	60.3							

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-8gb Fri May 17 00:17:46 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 : 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.
*
      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.)
   cache size : 512 KB

From /proc/meminfo
   MemTotal:        8028712 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-8gb 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    315G  7.4G  292G   3% /

(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.

Tested with SPEC CPU2006 v1.2.
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