

SPEC[®] CFP2006 Result

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google
n1-standard-4-d

SPECfp[®]_rate2006 = Not Run

SPECfp_rate_base2006 = 66.8

CPU2006 license: 4093

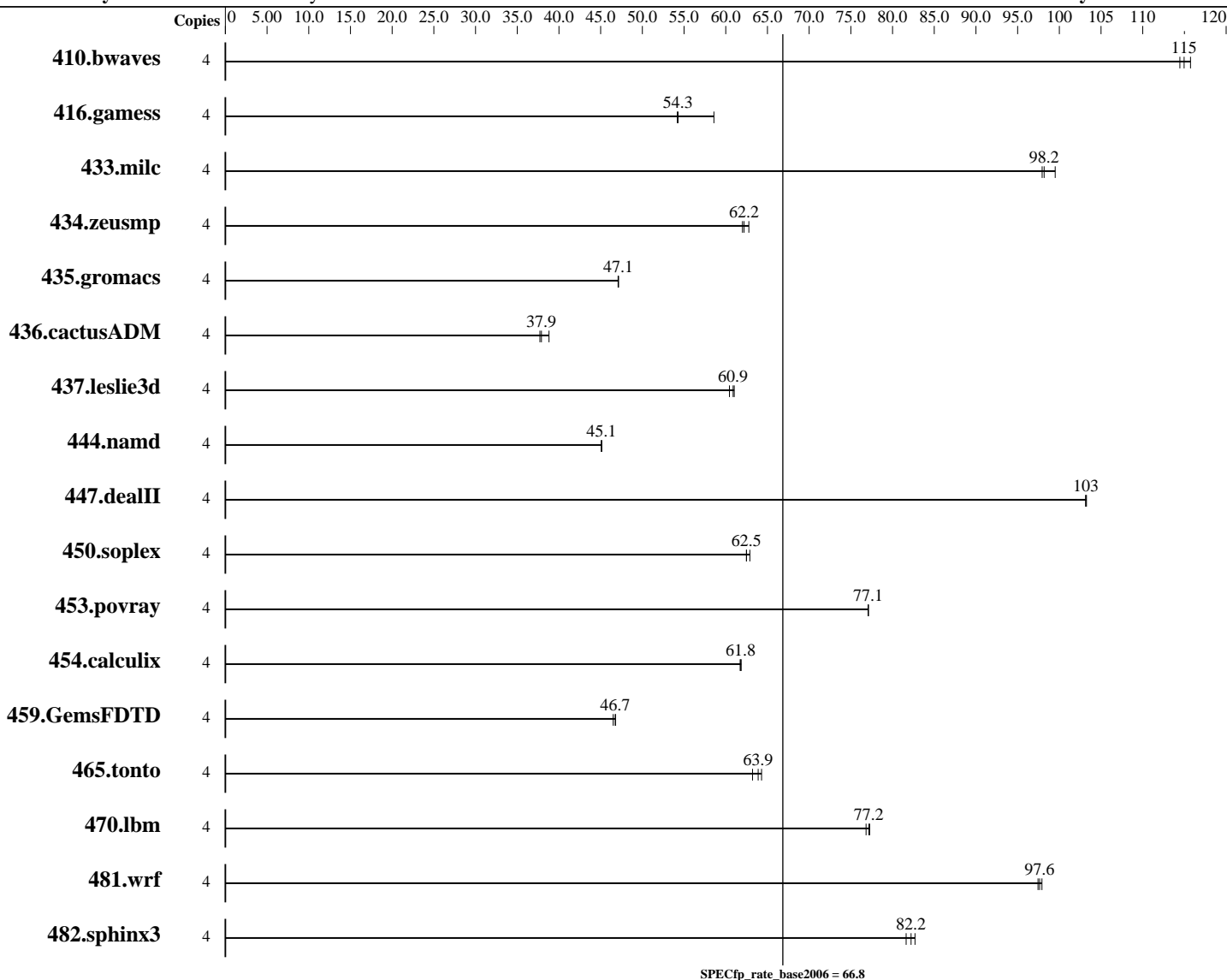
Test sponsor: google

Tested by: CloudHarmony Inc

Test date: May-2013

Hardware Availability: --

Software Availability: --



Hardware

CPU Name: Intel Xeon
 CPU Characteristics: Intel Xeon 2.60GHz
 CPU MHz: 2599.996
 FPU: --
 CPU(s) enabled: 4 cores, 1 chip, 1 core/chip
 CPU(s) orderable: --
 Primary Cache: --
 Secondary Cache: 20480 KB

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Software

Operating System: CentOS release 6.4 (Final)
 3.3.8-gcg-201303011431
 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: 14.732 GB fixme: If using DDR3, format is:
'N GB (M x N GB nRxn PCn-nnnnnR-n, ECC)'
Disk Subsystem: 1.8 TB 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	470	116	473	115	475	114							
416.gamess	4	1445	54.2	1443	54.3	1337	58.6							
433.milc	4	369	99.5	374	98.2	375	97.9							
434.zeusmp	4	580	62.8	585	62.2	587	62.0							
435.gromacs	4	606	47.2	606	47.1	606	47.1							
436.cactusADM	4	1232	38.8	1267	37.7	1261	37.9							
437.leslie3d	4	616	61.0	618	60.9	622	60.4							
444.namd	4	711	45.1	711	45.1	712	45.1							
447.dealII	4	443	103	443	103	444	103							
450.soplex	4	530	62.9	534	62.5	534	62.5							
453.povray	4	276	77.1	276	77.1	276	77.1							
454.calculix	4	534	61.8	535	61.7	534	61.8							
459.GemsFDTD	4	908	46.7	907	46.8	913	46.5							
465.tonto	4	623	63.2	612	64.3	616	63.9							
470.ibm	4	712	77.2	715	76.8	711	77.3							
481.wrf	4	456	97.9	458	97.6	459	97.4							
482.sphinx3	4	943	82.7	955	81.6	948	82.2							

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 gce-test-n1-standard-4 Fri May 17 14:19:05 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 : Intel(R) Xeon(R) CPU @ 2.60GHz

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 : 20480 KB

From /proc/meminfo

MemTotal: 15447792 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 gce-test-n1-standard-4 3.3.8-gcg-201303011431 #1 SMP Fri Mar 1 14:34:57 PST 2013 x86_64 x86_64 x86_64 GNU/Linux

run-level 3 May 17 17:48

SPEC is set to: /opt/cpu2006

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/sdb1	ext4	1.8T	31G	1.7T	2%	/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

C++ benchmarks:

icpc -m32

Fortran benchmarks:

ifort -m32

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Base Compiler Invocation (Continued)

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:

```
-xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch -auto-p32
-ansi-alias
```

C++ benchmarks:

```
-xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch -auto-p32
```

Fortran benchmarks:

```
-xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch
```

Benchmarks using both Fortran and C:

```
-xSSE4.2 -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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