

SPEC® CINT2006 Result

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System Vendor
(Test Sponsor: Test Sponsor (Optional, defaults to hw_vendor))

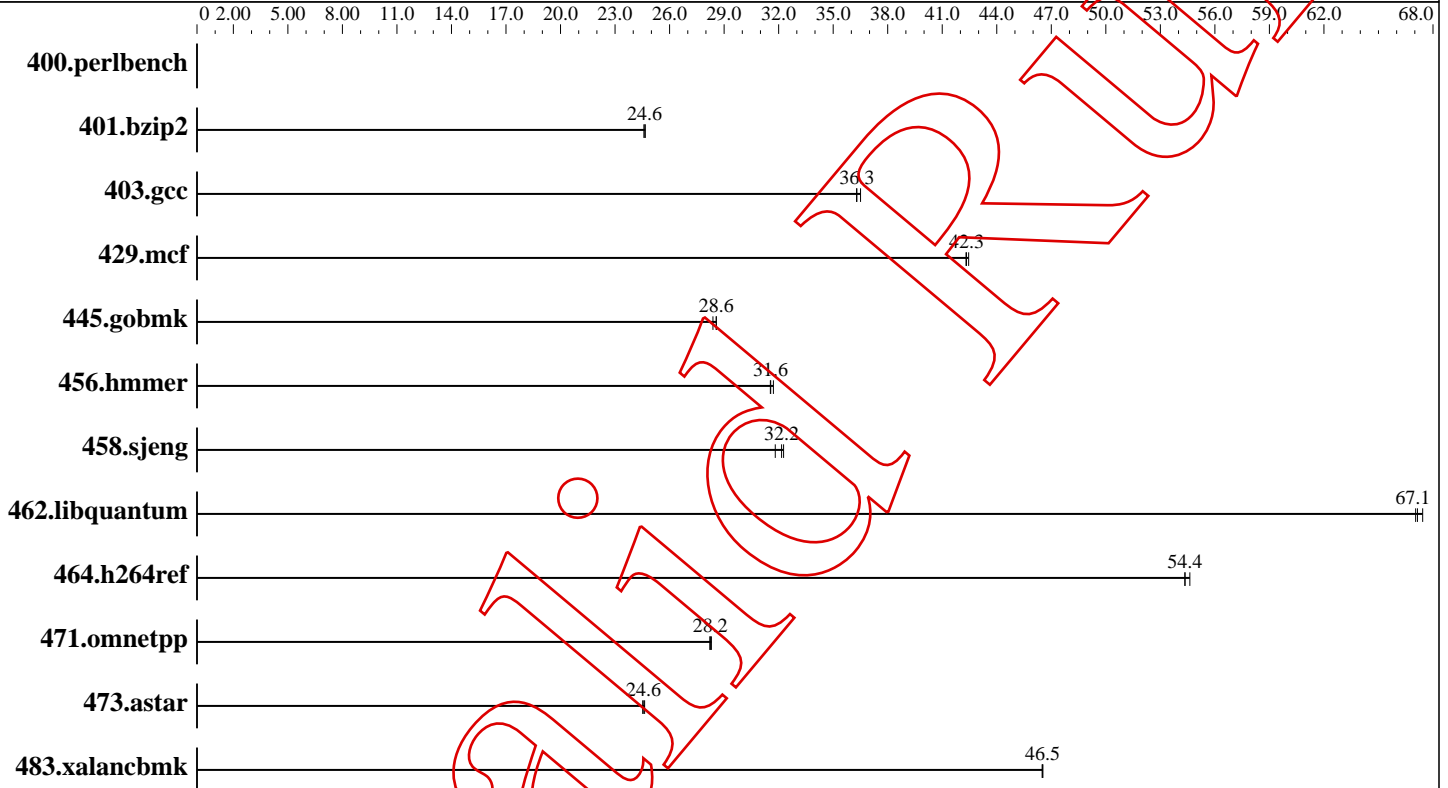
SPECint®2006 = Not Run

System Model Name

SPECint_base2006 = 0.00

CPU2006 license: 0
Test sponsor: Test Sponsor (Optional, defaults to hw_vendor)
Tested by: (Optional, defaults to hw_vendor)

Test date: Jun-2017
Hardware Availability: Dec-9999
Software Availability: May-2010



Hardware

CPU Name: Intel Core i7-6950X
CPU Characteristics:
CPU MHz: 9999
FPU: Integrated
CPU(s) enabled: number of cores enabled, 1 chip, number of cores manufactured into each chip, number of threads enabled per core, threads/core
CPU(s) orderable: 1,2 chips
Primary Cache: 9999 KB I+ 9999 KB D on chip per core
Secondary Cache: 9999 KB I+D on chip per core
L3 Cache: 9999 MB I+D on chip per chip
Other Cache: None
Memory: 62.843 GB fixme: If using DDR3, format is: 'M GB (M x N GB nRxn PCn-nnnnR-n, ECC)'
Disk Subsystem: 406 GB add more disk info here
Other Hardware: None

Software

Operating System: Ubuntu 16.04.2 LTS
4.4.0-78-generic
Compiler: gcc, g++ & gfortran 4.3.4
Auto Parallel: No
File System: ext4
System State: Run level 5 (add definition here)
Base Pointers: 64-bit
Peak Pointers: 64-bit
Other Software: None

Errors

'reportable' flag not set during run
400.perlbench (base) did not have enough runs!
Unknown flags were used! See

Continued on next page

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Errors (Continued)

<http://www.spec.org/cpu2006/Docs/runspec.html#flagsurl>
for information about how to get rid of this error.

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench												
401.bzip2	391	24.7	<u>392</u>	<u>24.6</u>	392	24.6						
403.gcc	<u>222</u>	<u>36.3</u>	222	36.3	221	36.5						
429.mcf	216	42.3	<u>215</u>	<u>42.3</u>	215	42.5						
445.gobmk	367	28.6	<u>367</u>	<u>28.6</u>	370	28.4						
456.hmmer	296	31.5	294	31.7	<u>296</u>	<u>31.6</u>						
458.sjeng	375	32.3	<u>376</u>	<u>32.2</u>	380	31.8						
462.libquantum	<u>309</u>	<u>67.1</u>	307	67.4	309	67.0						
464.h264ref	<u>407</u>	<u>54.4</u>	405	54.6	407	54.3						
471.omnetpp	222	28.2	<u>221</u>	<u>28.2</u>	221	28.3						
473.astar	286	24.5	285	24.6	<u>286</u>	<u>24.6</u>						
483.xalancbmk	148	46.5	148	46.5	<u>148</u>	<u>46.5</u>						

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Submit Notes

'numactl' was used to bind copies to the cores.
See the configuration file for details.

Operating System Notes

'ulimit -s unlimited' was used to set environment stack size

Platform Notes

sysinfo program /home/regehr/cpu2006-1.2/Docs/sysinfo
\$Rev: 6775 \$ \$Date:: 2011-08-16 #\$ 8787f7622badcf24e01c368b1db4377c
running on john-home Thu Jun 1 14:10:16 2017

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
model name : Intel(R) Core(TM) i7-6950X CPU @ 3.00GHz
1 "physical id"s (chips)
20 "processors"

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Platform Notes (Continued)

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 : 10
siblings  : 20
physical 0: cores 0 1 2 3 4 8 9 10 11 12
cache size : 25600 KB
```

From /proc/meminfo

```
MemTotal:    65895960 kB
HugePages_Total:    0
Hugepagesize:    2048 kB
```

```
/usr/bin/lsb_release -d
Ubuntu 16.04.2 LTS
```

From /etc/*release* /etc/*version*

```
debian_version: stretch/sid
os-release:
NAME="Ubuntu"
VERSION="16.04.2 LTS (Xenial Xerus)"
ID=ubuntu
ID_LIKE=debian
PRETTY_NAME="Ubuntu 16.04.2 LTS"
VERSION_ID="16.04"
HOME_URL="http://www.ubuntu.com/"
SUPPORT_URL="http://help.ubuntu.com/"
```

uname -a:

```
Linux john-home 4.4.0-78-generic #99-Ubuntu SMP Thu Apr 27 15:29:09 UTC 2017
x86_64 x86_64 x86_64 GNU/Linux
```

```
run-level 5 Jun 1 10:03
```

SPEC is set to: /home/regehr/cpu2006-1.2

```
Filesystem      Type      Size      Used      Avail     Use%      Mounted on
/dev/nvme0n1p2  ext4     406G     195G     191G     51%      /
```

(End of data from sysinfo program)

Base Unknown Flags

```
401.bzip2: "clang" (in CC) "clang" (in LD)
          "-std=gnu89" (in COPTIMIZE)
```

```
403.gcc: "clang" (in CC) "clang" (in LD)
         "-std=gnu89" (in COPTIMIZE)
```

```
429.mcf: "clang" (in CC) "clang" (in LD)
         "-std=gnu89" (in COPTIMIZE)
```

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Base Unknown Flags (Continued)

445.gobmk: "clang" (in CC) "clang" (in LD)
"-std=gnu89" (in COPTIMIZE)

456.hmmer: "clang" (in CC) "clang" (in LD)
"-std=gnu89" (in COPTIMIZE)

458.sjeng: "clang" (in CC) "clang" (in LD)
"-std=gnu89" (in COPTIMIZE)

462.libquantum: "clang" (in CC) "clang" (in LD)
"-std=gnu89" (in COPTIMIZE)

464.h264ref: "clang" (in CC) "clang" (in LD)
"-std=gnu89" (in COPTIMIZE)

471.omnetpp: "clan" (in CXX) "clan" (in LD)

473.astar: "clan" (in CXX) "clan" (in LD)

483.xalancbmk: "clan" (in CXX) "clan" (in LD)

Base Compiler Invocation

C++ benchmarks:
g++

Base Portability Flags

401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
471.omnetpp: -DSPEC_CPU_LP64
473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

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Base Optimization Flags (Continued)

401.bzip2: -O3 -fno-strict-aliasing

403.gcc: Same as 401.bzip2

429.mcf: Same as 401.bzip2

445.gobmk: Same as 401.bzip2

456.hmmer: Same as 401.bzip2

458.sjeng: Same as 401.bzip2

462.libquantum: Same as 401.bzip2

464.h264ref: Same as 401.bzip2

C++ benchmarks:

-O3 -fno-strict-aliasing

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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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