

# 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

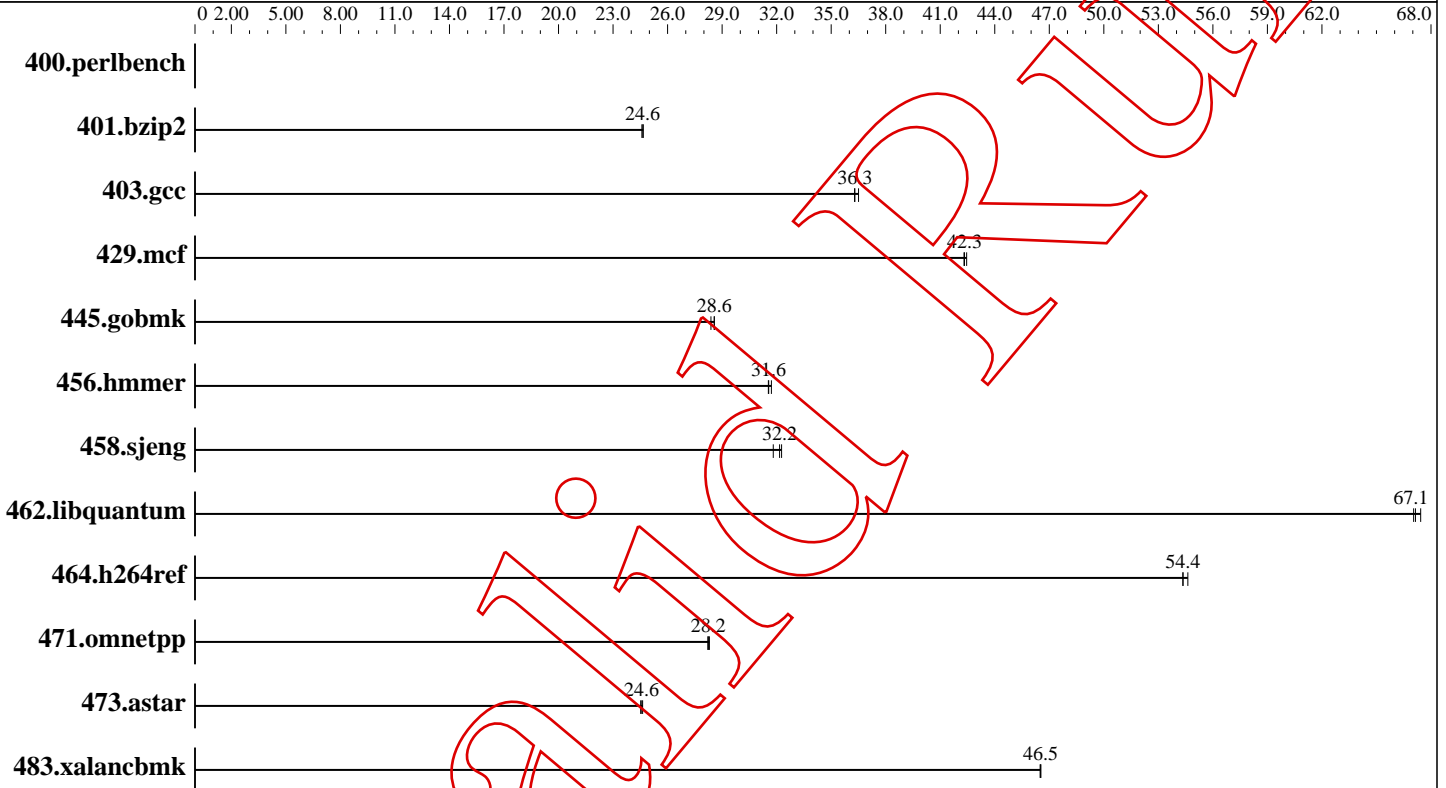
Test sponsor: Test Sponsor (Optional, defaults to hw\_vendor)

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-nnnnnR-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

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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](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.2.

Report generated on Thu Jun 1 16:58:30 2017 by SPEC CPU2006 PS/PDF formatter v6401.