SPEC® CINT2006 Result

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

System Model Name

SPEClnt®2006 = Not Run
SPEClnt_base2006 = 0.00

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

24.6

462.libquantum

67.1

464.h264ref

54.4

471.omnetpp

28.2

473.astar

24.6

483.xalancbmk

46.5

Hardware

CPU Name: Intel Core i7-6950X
CPU Characteristics:
CPU MHz: 9999
FPU: Integrated
CPU(s) enabled: 1.2 chips
CPU(s) orderable: 1,2 chips
Primary Cache: 9999 KB L1 + 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: 8 GB (M x N GB nrRxN PCn-nnnnR-n, ECC)/None
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
### SPEC CINT2006 Result

**System Vendor**
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**System Model Name**

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Seconds Base</th>
<th>Ratio Base</th>
<th>Seconds Peak</th>
<th>Ratio Peak</th>
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<tbody>
<tr>
<td>400.perlbench</td>
<td>391</td>
<td>24.7</td>
<td>392</td>
<td>24.6</td>
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<tr>
<td>401.bzip2</td>
<td>222</td>
<td>36.3</td>
<td>222</td>
<td>36.3</td>
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<tr>
<td>403.gcc</td>
<td>216</td>
<td>42.3</td>
<td>215</td>
<td>42.3</td>
</tr>
<tr>
<td>429.mcf</td>
<td>367</td>
<td>28.6</td>
<td>367</td>
<td>28.6</td>
</tr>
<tr>
<td>445.gobmk</td>
<td>296</td>
<td>31.5</td>
<td>294</td>
<td>31.7</td>
</tr>
<tr>
<td>456.hmmer</td>
<td>375</td>
<td>32.3</td>
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<td>32.3</td>
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<td>458.sjeng</td>
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<tr>
<td>462.libquantum</td>
<td>407</td>
<td>54.4</td>
<td>405</td>
<td>54.6</td>
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<tr>
<td>471.omnetpp</td>
<td>222</td>
<td>28.2</td>
<td>221</td>
<td>28.2</td>
</tr>
<tr>
<td>473.astar</td>
<td>286</td>
<td>24.5</td>
<td>285</td>
<td>24.6</td>
</tr>
<tr>
<td>483.xalancbmk</td>
<td>148</td>
<td>46.5</td>
<td>148</td>
<td>46.5</td>
</tr>
</tbody>
</table>

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"

---

Invalid Run
### SPEC CINT2006 Result

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

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<tr>
<th>SPECint2006</th>
<th>=</th>
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<tbody>
<tr>
<td>SPECint_base2006</td>
<td>= 0.00</td>
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</tbody>
</table>

**CPU2006 license:** 0

**Test sponsor:** Test Sponsor (Optional, defaults to hw_vendor)

**Tested by:** (Optional, defaults to hw_vendor)

<table>
<thead>
<tr>
<th>Test date:</th>
<th>Jun-2017</th>
</tr>
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<tbody>
<tr>
<td>Hardware Availability:</td>
<td>Dec-9999</td>
</tr>
<tr>
<td>Software Availability:</td>
<td>May-2010</td>
</tr>
</tbody>
</table>

#### 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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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

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.