SPEC® CINT2006 Result

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

System Model Name

SPECint®2006 = Not Run
SPECint_base2006 = 0.00

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

Hardware

CPU Name: Intel Core i7-6950X
CPU Characteristics:
CPU MHz: 9999
FPU: Integrated
CPU(s) enabled: 
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: 'N 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
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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Test date: Jun-2017
Hardware Availability: Dec-1999
Software Availability: May-2010

Errors (Continued)

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

Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>400.perlbench</td>
<td>526</td>
<td>18.3</td>
<td>529</td>
<td>18.2</td>
<td>485</td>
<td>19.9</td>
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<tr>
<td>401.bzip2</td>
<td>245</td>
<td>32.9</td>
<td>241</td>
<td>33.4</td>
<td>239</td>
<td>34.3</td>
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<td>403.gcc</td>
<td>228</td>
<td>40.1</td>
<td>237</td>
<td>38.4</td>
<td>227</td>
<td>46.1</td>
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<tr>
<td>445.gobmk</td>
<td>566</td>
<td>18.5</td>
<td>547</td>
<td>19.2</td>
<td>549</td>
<td>19.1</td>
<td></td>
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<tr>
<td>456.hmmer</td>
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<td>617</td>
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<td>695</td>
<td>13.4</td>
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<tr>
<td>458.sjeng</td>
<td>674</td>
<td>17.9</td>
<td>673</td>
<td>18.0</td>
<td>669</td>
<td>18.1</td>
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<tr>
<td>462.libquantum</td>
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<td>66.2</td>
<td>299</td>
<td>69.3</td>
<td>302</td>
<td>68.6</td>
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</tr>
<tr>
<td>464.h264ref</td>
<td>900</td>
<td>24.6</td>
<td>766</td>
<td>28.9</td>
<td>869</td>
<td>25.2</td>
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<tr>
<td>471.omnetpp</td>
<td>232</td>
<td>26.9</td>
<td>222</td>
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<td>233</td>
<td>26.8</td>
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<tr>
<td>473.astar</td>
<td>365</td>
<td>19.3</td>
<td>354</td>
<td>19.8</td>
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<td>19.2</td>
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<tr>
<td>483.xalancbmk</td>
<td>172</td>
<td>40.1</td>
<td>168</td>
<td>41.6</td>
<td>162</td>
<td>42.5</td>
<td></td>
<td></td>
<td></td>
<td></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 10:05:13 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"

Continued on next page
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Tested by: (Optional, defaults to hw_vendor)

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 -fsanitize=pointer-overflow
  -fsanitize-trap=pointer-overflow" (in COPTIMIZE)

403.gcc: "clang" (in CC) "clang" (in LD)
  "-std=gnu89 -fsanitize=pointer-overflow
  -fsanitize-trap=pointer-overflow" (in COPTIMIZE)

Continued on next page
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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 Unknown Flags (Continued)

429.mcf: "clang" (in CC) "clang" (in LD)
"-std=gnu89 -fsanitize=pointer-overflow -fsanitize-trap=pointer-overflow" (in COPTIMIZE)

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

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

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

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

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

471.omnetpp: "clan" (in CXX) "clan" (in LD)
"-fsanitize-pointer-overflow -fsanitize-trap=pointer-overflow" (in CXXOPTIMIZE)

473.astar: "clan" (in CXX) "clan" (in LD)
"-fsanitize-pointer-overflow -fsanitize-trap=pointer-overflow" (in CXXOPTIMIZE)

483.xalancbmk: "clan" (in CXX) "clan" (in LD)
"-fsanitize=pointer-overflow -fsanitize-trap=pointer-overflow" (in CXXOPTIMIZE)

Base Compiler Invocation

C++ benchmarks:
g++

Base Portability Flags

401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64

Continued on next page
# SPEC CINT2006 Result

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**CPU2006 license:** 0  
**Test date:** Jun-2017  
**Test sponsor:** Test Sponsor (Optional, defaults to hw_vendor)  
**Tested by:** (Optional, defaults to hw_vendor)  
**Hardware Availability:** Dec-9999  
**Software Availability:** May-2010

### Base Portability Flags (Continued)

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<td>-DSPEC_CPU_LP64 -DSPEC_CPU_LINUX</td>
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</tr>
<tr>
<td>483.xalancbmk</td>
<td>-DSPEC_CPU_LP64 -DSPEC_CPU_LINUX</td>
</tr>
</tbody>
</table>

### Base Optimization Flags

**C benchmarks:**

- 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.  