### SPEC® CINT2006 Result

**Supermicro**  
SuperServer 5019S-WR  
(X11SSW-F, Intel Core i3-6100TE)

**SPECint®2006 =** 48.2  
**SPECint_base2006 =** 47.1

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<thead>
<tr>
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<th>Supermicro</th>
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<th>Dec-2015</th>
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<tbody>
<tr>
<td>Hardware Availability</td>
<td>Oct-2015</td>
<td>Software Availability</td>
<td>Sep-2015</td>
</tr>
<tr>
<td>Tested by</td>
<td>Supermicro</td>
<td>CPU2006 license</td>
<td>001176</td>
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</table>

### Hardware

<table>
<thead>
<tr>
<th>CPU Name</th>
<th>Intel Core i3-6100TE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU Characteristics:</td>
<td></td>
</tr>
<tr>
<td>CPU MHz:</td>
<td>2700</td>
</tr>
<tr>
<td>FPU:</td>
<td>Integrated</td>
</tr>
<tr>
<td>CPU(s) enabled:</td>
<td>2 cores, 1 chip, 2 cores/chip</td>
</tr>
<tr>
<td>CPU(s) orderable:</td>
<td>1 chip</td>
</tr>
<tr>
<td>Primary Cache:</td>
<td>32 KB I + 32 KB D on chip per core</td>
</tr>
<tr>
<td>Secondary Cache:</td>
<td>256 KB I+D on chip per core</td>
</tr>
<tr>
<td>L3 Cache:</td>
<td>4 MB I+D on chip per chip</td>
</tr>
<tr>
<td>Other Cache:</td>
<td>None</td>
</tr>
<tr>
<td>Memory:</td>
<td>64 GB (4 x 16 GB 2Rx8 PC4-2133P-E)</td>
</tr>
<tr>
<td>Disk Subsystem:</td>
<td>1 x 1000 GB SATA III, 7200 RPM</td>
</tr>
<tr>
<td>Other Hardware:</td>
<td>None</td>
</tr>
</tbody>
</table>

### Software

<table>
<thead>
<tr>
<th>Operating System:</th>
<th>Red Hat Enterprise Linux Server release 7.1, Kernel 3.10.0-229.el7.x86_64</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compiler:</td>
<td>C/C++: Version 15.0.0.0.090 of Intel C++ Studio XE for Linux</td>
</tr>
<tr>
<td>Auto Parallel:</td>
<td>Yes</td>
</tr>
<tr>
<td>File System:</td>
<td>xfs</td>
</tr>
<tr>
<td>System State:</td>
<td>Run level 3 (multi-user)</td>
</tr>
<tr>
<td>Base Pointers:</td>
<td>32/64-bit</td>
</tr>
<tr>
<td>Peak Pointers:</td>
<td>32/64-bit</td>
</tr>
<tr>
<td>Other Software:</td>
<td>Microquill SmartHeap V10.0</td>
</tr>
</tbody>
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**CPU2006 license:** 001176  
**Test date:** Dec-2015  
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**Test sponsor:** Supermicro  
**Tested by:** Supermicro  
**Software Availability:** Sep-2015  

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### 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>
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</thead>
<tbody>
<tr>
<td>400.perlbench</td>
<td>289</td>
<td>33.8</td>
<td>291</td>
<td>33.6</td>
<td>291</td>
<td>33.6</td>
</tr>
<tr>
<td>401.bzip2</td>
<td>454</td>
<td>21.2</td>
<td><strong>455</strong></td>
<td><strong>21.2</strong></td>
<td>455</td>
<td>21.2</td>
</tr>
<tr>
<td>403.gcc</td>
<td>236</td>
<td>34.0</td>
<td><strong>237</strong></td>
<td><strong>34.0</strong></td>
<td>237</td>
<td>34.0</td>
</tr>
<tr>
<td>429.mcf</td>
<td>152</td>
<td>60.1</td>
<td>154</td>
<td>59.3</td>
<td><strong>154</strong></td>
<td><strong>59.3</strong></td>
</tr>
<tr>
<td>445.gobmk</td>
<td>441</td>
<td>23.8</td>
<td><strong>441</strong></td>
<td><strong>23.8</strong></td>
<td>442</td>
<td>23.7</td>
</tr>
<tr>
<td>456.hmmer</td>
<td>132</td>
<td>70.5</td>
<td>133</td>
<td>70.1</td>
<td>132</td>
<td>70.5</td>
</tr>
<tr>
<td>458.sjeng</td>
<td>435</td>
<td>27.8</td>
<td><strong>436</strong></td>
<td><strong>27.8</strong></td>
<td>436</td>
<td>27.8</td>
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<tr>
<td>462.libquantum</td>
<td>21.8</td>
<td>949</td>
<td><strong>21.9</strong></td>
<td><strong>945</strong></td>
<td>22.0</td>
<td>943</td>
</tr>
<tr>
<td>464.h264ref</td>
<td>464</td>
<td>47.7</td>
<td>463</td>
<td>47.8</td>
<td><strong>463</strong></td>
<td><strong>47.8</strong></td>
</tr>
<tr>
<td>471.omnetpp</td>
<td>245</td>
<td>25.5</td>
<td>245</td>
<td>25.5</td>
<td><strong>245</strong></td>
<td><strong>25.5</strong></td>
</tr>
<tr>
<td>473.astar</td>
<td>257</td>
<td>27.4</td>
<td>259</td>
<td>27.2</td>
<td><strong>258</strong></td>
<td><strong>27.2</strong></td>
</tr>
<tr>
<td>483.xalancbmk</td>
<td>120</td>
<td>57.4</td>
<td>121</td>
<td>57.1</td>
<td>120</td>
<td>57.4</td>
</tr>
</tbody>
</table>

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

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### Submit Notes

The config file option 'submit' was used.

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### Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"

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### Platform Notes

BIOS Settings:
- Hyper-threading = Disabled

Sysinfo program /home/cpu2006/config/sysinfo.rev6914

$Rev: 6914 $ $Date:: 2014-06-25 #$ e3fbb8667b5a285932ceab81e28219e1
running on localhost.localdomain Mon Dec 28 17:53:42 2015

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) i3-6100TE CPU @ 2.70GHz
  - 1 "physical id"s (chips)
  - 2 "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 : 2
  - siblings : 2

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Platform Notes (Continued)

physical 0: cores 0 1
cache size : 4096 KB

From /proc/meminfo
MemTotal: 65760188 kB
HugePages_Total: 0
Hugepagesize: 2048 kB

From /etc/*release* /etc/*version*
os-release:
NAME="Red Hat Enterprise Linux Server"
VERSION="7.1 (Maipo)"
ID="rhel"
ID_LIKE="fedora"
VERSION_ID="7.1"
PRETTY_NAME="Red Hat Enterprise Linux Server 7.1 (Maipo)"
ANSI_COLOR="0;31"
CPE_NAME="cpe:/o:redhat:enterprise_linux:7.1:GA:server"
redhat-release: Red Hat Enterprise Linux Server release 7.1 (Maipo)
system-release: Red Hat Enterprise Linux Server release 7.1 (Maipo)

uname -a:
Linux localhost.localdomain 3.10.0-229.el7.x86_64 #1 SMP Thu Jan 29 18:37:38
EST 2015 x86_64 x86_64 x86_64 GNU/Linux
run-level 3 Dec 28 17:44

SPEC is set to: /home/cpu2006
Filesystem Type Size Used Avail Use% Mounted on
/dev/mapper/rhel-home xfs 865G 170G 696G 20% /home

Additional information from dmidecode:

Warning: Use caution when you interpret this section. The 'dmidecode' program reads system data which is "intended to allow hardware to be accurately determined", but the intent may not be met, as there are frequent changes to hardware, firmware, and the "DMTF SMBIOS" standard.

BIOS American Megatrends Inc. 1.0 11/03/2015
Memory:
4x Samsung M391A2K43BB1-CPB 16 GB 2 rank 2133 MHz

(End of data from sysinfo program)

General Notes

Environment variables set by runspec before the start of the run:
KMP_AFFINITY = "granularity=fine,scatter"
LD_LIBRARY_PATH = "/home/cpu2006/libs/32:/home/cpu2006/libs/64:/home/cpu2006/sh"
OMP_NUM_THREADS = "2"

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General Notes (Continued)
Binaries compiled on a system with 1x Core i5-4670K CPU + 16GB memory using RedHat EL 7.0
Transparent Huge Pages enabled with:
echo always > /sys/kernel/mm/transparent_hugepage/enabled

Base Compiler Invocation
C benchmarks:
icc   -m64
C++ benchmarks:
icpc  -m64

Base Portability Flags
400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
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:
xCORE-AVX2 -ipo -O3 -no-prec-div -parallel -opt-prefetch -auto-p32
C++ benchmarks:
xCORE-AVX2 -ipo -O3 -no-prec-div -opt-prefetch -auto-p32
-Wl,-z,muldefs -L/sh -lsmartheap64

Base Other Flags
C benchmarks:
403.gcc: -Dalloca=_alloca
Supermicro
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Peak Compiler Invocation

C benchmarks (except as noted below):
  icc  -m64

  400.perlbench: icc -m32 -L/opt/intel/composer_xe_2015/lib/ia32
  445.gobmk: icc -m32 -L/opt/intel/composer_xe_2015/lib/ia32

C++ benchmarks (except as noted below):
  icpc -m32 -L/opt/intel/composer_xe_2015/lib/ia32

  473.astar: icpc -m64

Peak Portability Flags

  400.perlbench: -DSPEC_CPU_LINUX_IA32
  401.bzip2: -DSPEC_CPU_LP64
  403.gcc: -DSPEC_CPU_LP64
  429.mcf: -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
  473.astar: -DSPEC_CPU_LP64
  483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

  400.perlbench: -xCORE-AVX2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
    -O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
    -opt-prefetch -ansi-alias

  401.bzip2: -xCORE-AVX2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
    -O3(pass 2) -no-prec-div -prof-use(pass 2) -auto-1lp32
    -opt-prefetch -ansi-alias

  403.gcc: -xCORE-AVX2 -ipo -O3 -no-prec-div -inline-calloc
    -opt-malloc-options=3 -auto-1lp32

  429.mcf: -xCORE-AVX2 -ipo -O3 -no-prec-div -parallel
    -opt-prefetch -auto-p32

  445.gobmk: -xCORE-AVX2(pass 2) -prof-gen(pass 1) -prof-use(pass 2)
    -ansi-alias

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Peak Optimization Flags (Continued)

456.hmmer: -xCORE-AVX2 -ipo -O3 -no-prec-div -unroll2 -auto-ilp32
-ansi-alias

458.sjeng: -xCORE-AVX2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-unroll4

462.libquantum: basepeak = yes

464.h264ref: basepeak = yes

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic15.0-official-linux64.html
http://www.spec.org/cpu2006/flags/Supermicro-Platform-Settings-V1.2-revG.20141230.00.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-ic15.0-official-linux64.xml
http://www.spec.org/cpu2006/flags/Supermicro-Platform-Settings-V1.2-revG.20141230.00.xml
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For other inquiries, please contact webmaster@spec.org.

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