



SPEC® CINT2006 Result
Copyright 2001-2015 SPEC Inc., Inc. All rights reserved.

Copyright 2006-2015 Standard Performance Evaluation Corporation

Supermicro		SPECint®2006 = 76.2																														
Motherboard X11SSi-LN4F (Intel Xeon E3-1270 v5)		SPECint_base2006 = 74.0																														
CPU2006 license: 001176		Test date: Nov-2015																														
Test sponsor: Supermicro		Hardware Availability: Nov-2015																														
Tested by: Supermicro		Software Availability: Sep-2015																														
<p>The chart displays the performance results for the Supermicro system across 15 benchmarks. The x-axis represents the score, ranging from 0 to 2250. The y-axis lists the benchmarks. Each benchmark has a blue horizontal bar indicating the result, with the exact numerical value labeled at the end of the bar.</p> <table border="1"> <thead> <tr> <th>Benchmark</th> <th>Score</th> </tr> </thead> <tbody> <tr><td>400.perlbench</td><td>56.7</td></tr> <tr><td>401.bzip2</td><td>50.9</td></tr> <tr><td>403.gcc</td><td>31.6</td></tr> <tr><td>429.mcf</td><td>31.0</td></tr> <tr><td>445.gobmk</td><td>52.0</td></tr> <tr><td>456.hmmer</td><td>51.9</td></tr> <tr><td>458.sjeng</td><td>87.0</td></tr> <tr><td>462.libquantum</td><td>87.6</td></tr> <tr><td>464.h264ref</td><td>104</td></tr> <tr><td>471.omnetpp</td><td>34.3</td></tr> <tr><td>473.astar</td><td>35.7</td></tr> <tr><td>483.xalancbmk</td><td>40.9</td></tr> <tr><td></td><td>40.3</td></tr> <tr><td></td><td>2240</td></tr> </tbody> </table>			Benchmark	Score	400.perlbench	56.7	401.bzip2	50.9	403.gcc	31.6	429.mcf	31.0	445.gobmk	52.0	456.hmmer	51.9	458.sjeng	87.0	462.libquantum	87.6	464.h264ref	104	471.omnetpp	34.3	473.astar	35.7	483.xalancbmk	40.9		40.3		2240
Benchmark	Score																															
400.perlbench	56.7																															
401.bzip2	50.9																															
403.gcc	31.6																															
429.mcf	31.0																															
445.gobmk	52.0																															
456.hmmer	51.9																															
458.sjeng	87.0																															
462.libquantum	87.6																															
464.h264ref	104																															
471.omnetpp	34.3																															
473.astar	35.7																															
483.xalancbmk	40.9																															
	40.3																															
	2240																															
SPECint_base2006 = 74.0																																

Hardware		Software	
CPU Name:	Intel Xeon E3-1270 v5	Operating System:	Red Hat Enterprise Linux Server release 7.1, Kernel 3.10.0-229.el7.x86_64
CPU Characteristics:	Intel Turbo Boost Technology up to 4.00 GHz	Compiler:	C/C++: Version 16.0.0.101 of Intel C++ Studio XE for Linux
CPU MHz:	3600	Auto Parallel:	Yes
FPU:	Integrated	File System:	xfs
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip, 2 threads/core	System State:	Run level 3 (multi-user)
CPU(s) orderable:	1 chip	Base Pointers:	32/64-bit
Primary Cache:	32 KB I + 32 KB D on chip per core	Peak Pointers:	32/64-bit
Secondary Cache:	256 KB I+D on chip per core	Other Software:	Microquill SmartHeap V10.2
L3 Cache:	8 MB I+D on chip per chip		
Other Cache:	None		
Memory:	16 GB (2 x 8 GB 2Rx8 PC4-2133P-U)		
Disk Subsystem:	1 x 1 TB SATA III, 7200 RPM		
Other Hardware:	None		



SPEC CINT2006 Result

Copyright 2006-2015 Standard Performance Evaluation Corporation

Supermicro

Motherboard X11SSi-LN4F
(Intel Xeon E3-1270 v5)

SPECint2006 = 76.2

SPECint_base2006 = 74.0

CPU2006 license: 001176

Test date: Nov-2015

Test sponsor: Supermicro

Hardware Availability: Nov-2015

Tested by: Supermicro

Software Availability: Sep-2015

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	191	51.1	193	50.7	192	50.9	173	56.6	172	56.9	172	56.7
401.bzip2	311	31.0	318	30.3	311	31.1	306	31.6	306	31.6	306	31.5
403.gcc	155	51.9	155	51.9	155	51.8	156	51.7	154	52.1	155	52.0
429.mcf	105	87.1	104	88.1	104	87.6	107	85.5	105	87.0	103	88.5
445.gobmk	294	35.7	294	35.7	294	35.7	305	34.4	305	34.3	306	34.3
456.hmmer	89.4	104	89.4	104	89.3	104	89.4	104	89.4	104	89.3	104
458.sjeng	300	40.3	301	40.3	300	40.3	297	40.7	296	40.9	296	40.9
462.libquantum	9.24	2240	9.25	2240	9.21	2250	9.24	2240	9.25	2240	9.21	2250
464.h264ref	294	75.3	294	75.3	294	75.2	294	75.3	294	75.3	294	75.2
471.omnetpp	172	36.4	172	36.3	171	36.5	141	44.3	141	44.2	142	44.1
473.astar	170	41.4	166	42.2	166	42.2	168	41.9	166	42.2	166	42.2
483.xalancbmk	72.2	95.6	72.0	95.9	71.6	96.4	67.5	102	67.3	102	67.8	102

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

Submit Notes

The config file option 'submit' was used.

Operating System Notes

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

Platform Notes

As tested, the chassis used was a SuperChassis 813MTQ-350CB.
The setup also includes a PWS-351-1H power supply, a SNK-P0046P heatsink,
and 4 FAN-0065L4 cooling fans.

Sysinfo program /home/cpu2006/config/sysinfo.rev6914
\$Rev: 6914 \$ \$Date:: 2014-06-25 ## e3fbb8667b5a285932ceab81e28219e1
running on localhost.localdomain Sun Nov 15 10:48:11 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) Xeon(R) CPU E3-1270 v5 @ 3.60GHz
  1 "physical id"s (chips)
  8 "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 : 4
```

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2015 Standard Performance Evaluation Corporation

Supermicro

Motherboard X11SSi-LN4F
(Intel Xeon E3-1270 v5)

SPECint2006 = 76.2

SPECint_base2006 = 74.0

CPU2006 license: 001176

Test sponsor: Supermicro

Tested by: Supermicro

Test date: Nov-2015

Hardware Availability: Nov-2015

Software Availability: Sep-2015

Platform Notes (Continued)

```
siblings : 8
physical 0: cores 0 1 2 3
cache size : 8192 KB

From /proc/meminfo
MemTotal:       16213268 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)
  system-release-cpe: cpe:/o:redhat:enterprise_linux:7.1:ga:server

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 Nov 14 20:29

SPEC is set to: /home/cpu2006
Filesystem           Type  Size  Used Avail Use% Mounted on
/dev/mapper/rhel-home xfs   873G   31G  843G   4% /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 10/13/2015
Memory:
 2x Not Specified Not Specified
 2x Samsung M391A1G43DB0-CPB 8 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"

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2015 Standard Performance Evaluation Corporation

Supermicro

Motherboard X11SSi-LN4F
(Intel Xeon E3-1270 v5)

SPECint2006 = 76.2

SPECint_base2006 = 74.0

CPU2006 license: 001176

Test sponsor: Supermicro

Tested by: Supermicro

Test date: Nov-2015

Hardware Availability: Nov-2015

Software Availability: Sep-2015

General Notes (Continued)

OMP_NUM_THREADS = "4"

Binaries compiled on a system with 1x Intel Core i5-4670K CPU + 32GB memory using RedHat EL 7.1

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.hmmr: -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:

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2015 Standard Performance Evaluation Corporation

Supermicro

Motherboard X11SSi-LN4F
(Intel Xeon E3-1270 v5)

SPECint2006 = 76.2

SPECint_base2006 = 74.0

CPU2006 license: 001176

Test sponsor: Supermicro

Tested by: Supermicro

Test date: Nov-2015

Hardware Availability: Nov-2015

Software Availability: Sep-2015

Base Other Flags (Continued)

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

icc -m64

400.perlbench: icc -m32 -L/opt/intel/compilers_and_libraries_2016/linux/compiler/lib/ia32_lin

445.gobmk: icc -m32 -L/opt/intel/compilers_and_libraries_2016/linux/compiler/lib/ia32_lin

C++ benchmarks (except as noted below):

icpc -m32 -L/opt/intel/compilers_and_libraries_2016/linux/compiler/lib/ia32_lin

473.astar: icpc -m64

Peak Portability Flags

400.perlbench: -D_FILE_OFFSET_BITS=64 -DSPEC_CPU_LINUX_IA32

401.bzip2: -DSPEC_CPU_LP64

403.gcc: -DSPEC_CPU_LP64

429.mcf: -DSPEC_CPU_LP64

445.gobmk: -D_FILE_OFFSET_BITS=64

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: -D_FILE_OFFSET_BITS=64

473.astar: -DSPEC_CPU_LP64

483.xalancbmk: -D_FILE_OFFSET_BITS=64 -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -xCORE-AVX2(pass 2) -prof-gen:threadsafe(pass 1)

-ipo(pass 2) -O3(pass 2) -no-prec-div(pass 2)

-par-num-threads=1(pass 1) -prof-use(pass 2) -opt-prefetch

-ansi-alias

401.bzip2: -xCORE-AVX2(pass 2) -prof-gen:threadsafe(pass 1)

-ipo(pass 2) -O3(pass 2) -no-prec-div

-par-num-threads=1(pass 1) -prof-use(pass 2) -auto-ilp32

-opt-prefetch -ansi-alias

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2015 Standard Performance Evaluation Corporation

Supermicro

Motherboard X11SSi-LN4F
(Intel Xeon E3-1270 v5)

SPECint2006 = 76.2

SPECint_base2006 = 74.0

CPU2006 license: 001176

Test sponsor: Supermicro

Tested by: Supermicro

Test date: Nov-2015

Hardware Availability: Nov-2015

Software Availability: Sep-2015

Peak Optimization Flags (Continued)

403.gcc: -xCORE-AVX2 -ipo -O3 -no-prec-div -inline-calloc
-opt-malloc-options=3 -auto-ilp32

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

445.gobmk: -xCORE-AVX2(pass 2) -prof-gen:threadsafe(pass 1)
-prof-use(pass 2) -par-num-threads=1(pass 1) -ansi-alias

456.hammer: basepeak = yes

458.sjeng: -xCORE-AVX2(pass 2) -prof-gen:threadsafe(pass 1)
-ipo(pass 2) -O3(pass 2) -no-prec-div(pass 2)
-par-num-threads=1(pass 1) -prof-use(pass 2) -unroll14

462.libquantum: basepeak = yes

464.h264ref: basepeak = yes

C++ benchmarks:

471.omnetpp: -xCORE-AVX2(pass 2) -prof-gen:threadsafe(pass 1)
-ipo(pass 2) -O3(pass 2) -no-prec-div(pass 2)
-par-num-threads=1(pass 1) -prof-use(pass 2)
-opt-ra-region-strategy=block -ansi-alias
-Wl,-z,muldefs -L/sh -lsmartheap

473.astar: -xCORE-AVX2 -ipo -O3 -no-prec-div -opt-prefetch
-auto-p32 -Wl,-z,muldefs -L/sh -lsmartheap64

483.xalancbmk: -xCORE-AVX2 -ipo -O3 -no-prec-div -opt-prefetch
-ansi-alias -Wl,-z,muldefs -L/sh -lsmartheap

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-ic16.0-official-linux64.html>

<http://www.spec.org/cpu2006/flags/Supermicro-Platform-Settings-V1.2-revH.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic16.0-official-linux64.xml>

<http://www.spec.org/cpu2006/flags/Supermicro-Platform-Settings-V1.2-revH.xml>



SPEC CINT2006 Result

Copyright 2006-2015 Standard Performance Evaluation Corporation

Supermicro

Motherboard X11SSi-LN4F
(Intel Xeon E3-1270 v5)

SPECint2006 = 76.2

SPECint_base2006 = 74.0

CPU2006 license: 001176

Test date: Nov-2015

Test sponsor: Supermicro

Hardware Availability: Nov-2015

Tested by: Supermicro

Software Availability: Sep-2015

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.2.

Report generated on Tue Dec 1 17:42:44 2015 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 1 December 2015.