



# SPEC® CINT2006 Result

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## Supermicro

SuperServer 6027AX-TRF  
(X9DAX-iF, Intel Xeon E5-2697 v2, 2.70 GHz)

SPECint®\_rate2006 = **NC**

SPECint\_rate\_base2006 = **NC**

CPU2006 license: 001176

Test sponsor: Supermicro

Tested by: Supermicro

Test date: Oct-2013

Hardware Availability: Sep-2013

Software Availability: Sep-2013

**SPEC has determined that this result is not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, SPEC was notified that an attempt to reproduce the published result did not come within SPEC's requirements for run-to-run variation. Upon re-review, it was determined that the system configuration does not meet SPEC's requirements for documented and supported systems, and does not meet SPEC's requirements for general availability.**

	Copies
400.perlbench	
401.bzip2	
403.gcc	
429.mcf	
445.gobmk	
456.hmmer	
458.sjeng	
462.libquantum	
464.h264ref	
473.astar	
483.xalanbmk	

### Hardware

CPU Name: Intel Xeon E5-2697 v2  
 CPU Characteristics: Intel Turbo Boost Technology up to 3.50 GHz  
 CPU MHz: 2700

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### Software

Operating System: Red Hat Enterprise Linux Server release 6.4,  
 Kernel 2.6.32-358.el6.x86\_64

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FPU: Integrated  
CPU(s) enabled: 24 cores, 2 chips, 12 cores/chip, 3 threads/core  
CPU(s) orderable: 1,2 chips  
Primary Cache: 32 KB I + 32 KB D on chip per core  
Secondary Cache: 256 KB I+D on chip per core  
L3 Cache: 30 MB I+D on chip per chip  
Other Cache: None  
Memory: 128 GB (16 x 8 GB 2Rx4 PC3L-14900R-13, ECC)  
Disk Subsystem: 1 x 300 GB SATA II, 7200 RPM  
Other Hardware: None

Compiler: C/C++: Version 14.0.0.080 of Intel C++ Studio XE for Linux  
Auto Parallel: No  
File System: ext4  
System State: Run level 3 (multi-user)  
Base Pointers: 32-bit  
Peak Pointers: 32/64-bit  
Other Software: Microquill SmartHeap V10.0

## Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
400.perlbench	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC	NC	NC		
401.bzip2	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC	NC	NC		
403.gcc	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC	NC	NC		
429.mcf	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC	NC	NC		
445.gobmk	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC	NC	NC		
456.hm	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC	NC	NC		
458.sjeng	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC	NC	NC		
462.libquantum	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC	NC	NC		
464.h264ref	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC	NC	NC		
471.omnetpp	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC	NC	NC		
473.astar	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC	NC	NC		
483.xalancbmk	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC	NC	NC		

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



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## Submit Notes

The numactl mechanism was used to bind copies to processors. The config file option 'submit' was used to generate numactl commands to bind each copy to a specific processor. For details, please see the config file.

## Operating System Notes

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

## General Notes

Environment variables set by runspec before the start of the run:  
LD\_LIBRARY\_PATH = /usr/cpu2006/libs/32:/usr/cpu2006/libs/64:/usr/cpu2006/sh"

Binaries compiled on a system with 1x Core i7-860 CPU + 8GB memory using RedHat EL6.4  
Transparent Huge Pages enabled with:  
echo always /sys/kernel/mm/redhat\_transparent\_hugepage/enabled  
Filesystem page cache cleared with:  
echo 1 > /proc/sys/vm/drop\_caches  
numactl command invoked through numactl i.e.:  
numactl --interleave=all runspec <etc>

## Base Compiler Invocation

C benchmarks:  
icc -m32

C++ benchmarks:  
icpc -m32



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## Base Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
462.libquantum: -DSPEC\_CPU\_LINUX  
483.xalancbmk: -DSPEC\_CPU\_LINUX

## Base Optimization Flags

C benchmarks:  
-xAVX -ipo -O3 -m-prec-div -opt-prefetch -opt-mem-layout-trans=3  
C++ benchmarks:  
-xAVX -ipo -O3 -m-prec-div -opt-prefetch -opt-mem-layout-trans=3  
-Wl,-z,muldefs -L,lib -lsmartheap

## Base Other Flags

C benchmarks:  
405.gcc: -Dalloca=\_alloca

## Peak Compiler Invocation

C benchmarks (except as noted below):  
icc -m32  
400.perlbench: icc -m64

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## Peak Compiler Invocation (Continued)

401.bzip2: icc -m64

456.hmmer: icc -m64

458.sjeng: icc -m64

C++ benchmarks:

icpc -m32

## Peak Portability Flags

400.perlbench: -DSPEC\_CPU\_LP64 -DSPEC\_CPU\_LINUX\_X64

401.bzip2: -DSPEC\_CPU\_LP64

456.hmmer: -DSPEC\_CPU\_LP64

458.sjeng: -DSPEC\_CPU\_LP64

462.libquantum: -DSPEC\_CPU\_LINUX

483.xalan\_bmk: -DSPEC\_CPU\_LINUX

## Peak Optimization Flags

C benchmarks:

400.perlbench: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)  
-no-prec-div(pass 2) -prof-use(pass 2) -auto-ilp32

401.bzip2: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)  
-no-prec-div(pass 2) -prof-use(pass 2) -opt-prefetch  
-auto-ilp32 -ansi-alias

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## Peak Optimization Flags (Continued)

403.gcc: -xAVX -ipo -O3 -no-prec-div

429.mcf: basepeak = yes

445.gobmk: -xAVX(pass 2) -prof-gen(pass 1) -prof-use(pass 2)  
-ansi-alias -opt-rem-layout-trans=3

456.hmmmer: -xAVX -ipo -O3 -no-prec-div -unroll2 -auto-ilp32

458.sjeng: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)  
-no-prec-div(pass 2) -prof-use(pass 2) -unroll4  
-auto-ilp32

462.libquantum: basepeak = yes

464.h264ref: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)  
-no-prec-div(pass 2) -prof-use(pass 2) -unroll2  
-ansi-alias

C++ benchmarks

471.onnetpp: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)  
-no-prec-div(pass 2) -prof-use(pass 2) -ansi-alias  
-opt-ra-region-strategy=block -Wl,-z,muldefs  
-L/sh -lsmartheap

473.astar: basepeak = yes

483.xalancbmk: basepeak = yes



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## 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-ic14.0-official-linux64.20140128.html>

<http://www.spec.org/cpu2006/flags/Supermicro-Platform-Settings-V1.2-revB.20130719.html>

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

<http://www.spec.org/cpu2006/flags/intel-ic14.0-official-linux64.20140128.xml>

<http://www.spec.org/cpu2006/flags/Supermicro-Platform-Settings-V1.2-revB.20130719.xml>

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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).

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