



SPEC® CINT2006 Result

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ScaleMP

SPECint®_rate2006 = Not Run

vSMP Foundation (Intel Xeon E5-2680 v3, 2.50 GHz)

SPECint_rate_base2006 = 40200

CPU2006 license: 2929

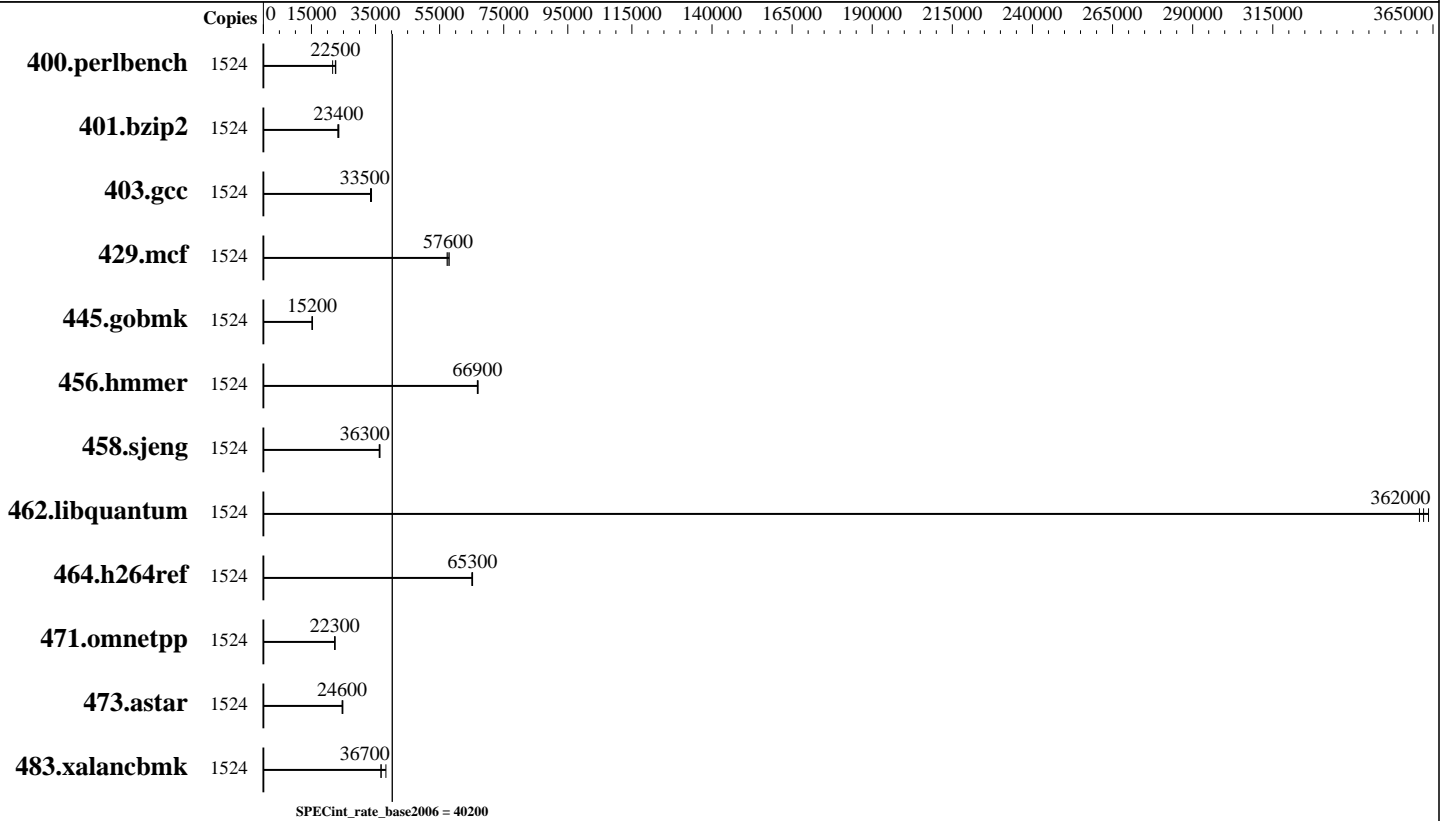
Test sponsor: ScaleMP

Tested by: ScaleMP

Test date: Jan-2016

Hardware Availability: Nov-2015

Software Availability: Nov-2015



Hardware

CPU Name: Intel Xeon E5-2680 v3
 CPU Characteristics: Intel Turbo Boost Technology up to 3.30 GHz
 CPU MHz: 2500
 FPU: Integrated
 CPU(s) enabled: 1536 cores, 128 chips, 12 cores/chip
 CPU(s) orderable: 2 to 64 blades with 2 chips per blade
 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: 1200 GB I+D off chip per system
 Memory: 16 TB (64 x 16 x 16 GB 2Rx4 PC4-2133P-R)
 Disk Subsystem: 13TB ramfs
 Other Hardware: None

Software

Operating System: CentOS
 CentOS release 6.5 (Final)
 2.6.32-431.29.2.el6.vSMP.1.x86_64
 Compiler: C/C++: Version 15.0.3.187 of Intel C++ Studio XE for Linux
 Auto Parallel: No
 File System: ramfs
 System State: Run level 3 (multi-user)
 Base Pointers: 32-bit
 Peak Pointers: Not Applicable
 Other Software: ScaleMP vSMP Foundation 7.0.147.0



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Results Table

Benchmark	Base								Peak					
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	1524	689	21600	<u>663</u>	<u>22500</u>	659	22600							
401.bzip2	1524	624	23600	<u>628</u>	<u>23400</u>	633	23200							
403.gcc	1524	364	33700	367	33400	<u>366</u>	<u>33500</u>							
429.mcf	1524	242	57300	<u>241</u>	<u>57600</u>	240	58000							
445.gobmk	1524	<u>1051</u>	<u>15200</u>	1042	15300	1052	15200							
456.hammer	1524	<u>213</u>	<u>66900</u>	212	67000	213	66800							
458.sjeng	1524	510	36100	507	36400	<u>508</u>	<u>36300</u>							
462.libquantum	1524	86.8	364000	87.5	361000	<u>87.2</u>	<u>362000</u>							
464.h264ref	1524	517	65300	<u>517</u>	<u>65300</u>	519	65000							
471.omnetpp	1524	428	22200	426	22400	<u>427</u>	<u>22300</u>							
473.astar	1524	<u>434</u>	<u>24600</u>	435	24600	431	24800							
483.xalancbmk	1524	275	38200	<u>286</u>	<u>36700</u>	287	36700							

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

Submit Notes

The taskset mechanism was used to bind copies to processors. The config file option 'submit' was used to generate taskset 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"

Platform Notes

BIOS Settings

Hyper-Threading Technology disabled.

ScaleMP

vSMP Foundation: 7.0.147.0

vSMP Foundation manages off chip cache using a portion of each blade memory.

Hardware Details:

System was aggregated using 64 x Supermicro 1028U blades.

The servers were connected with Mellanox InfiniBand FDR and an FDR switch.

Sysinfo program /ramfs/SPEC_CPU2006v1.2/Docs/sysinfo

\$Rev: 6775 \$ \$Date: 2011-08-16 # \$ 8787f7622badcf24e01c368b1db4377c

running on fl100.local Tue Jan 12 12:10:31 2016

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>

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info@spec.org

<http://www.spec.org/>



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Platform Notes (Continued)

From /proc/cpuinfo

model name : Intel(R) Xeon(R) CPU E5-2680 v3 @ 2.50GHz

128 "physical id"s (chips)

1536 "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 : 12

siblings : 12

physical 0: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 1: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 8: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 9: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 16: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 17: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 24: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 25: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 32: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 33: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 40: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 41: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 48: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 49: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 56: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 57: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 64: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 65: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 72: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 73: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 80: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 81: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 88: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 89: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 96: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 97: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 104: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 105: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 112: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 113: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 120: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 121: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 128: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 129: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 136: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 137: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 144: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 145: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 152: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 153: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 160: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 161: cores 0 1 2 3 4 5 8 9 10 11 12 13

physical 168: cores 0 1 2 3 4 5 8 9 10 11 12 13

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Platform Notes (Continued)

```

physical 169: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 176: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 177: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 184: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 185: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 192: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 193: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 200: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 201: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 208: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 209: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 216: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 217: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 224: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 225: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 232: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 233: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 240: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 241: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 248: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 249: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 256: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 257: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 264: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 265: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 272: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 273: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 280: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 281: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 288: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 289: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 296: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 297: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 304: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 305: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 312: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 313: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 320: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 321: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 328: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 329: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 336: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 337: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 344: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 345: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 352: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 353: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 360: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 361: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 368: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 369: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 376: cores 0 1 2 3 4 5 8 9 10 11 12 13

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Platform Notes (Continued)

```

physical 377: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 384: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 385: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 392: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 393: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 400: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 401: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 408: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 409: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 416: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 417: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 424: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 425: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 432: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 433: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 440: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 441: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 448: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 449: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 456: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 457: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 464: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 465: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 472: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 473: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 480: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 481: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 488: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 489: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 496: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 497: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 504: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 505: cores 0 1 2 3 4 5 8 9 10 11 12 13
cache size : 30720 KB

```

From /proc/meminfo

MemTotal: 14205999376 kB

HugePages_Total: 0

Hugepagesize: 2048 kB

/usr/bin/lsb_release -d

CentOS release 6.5 (Final)

From /etc/*release* /etc/*version*

centos-release: CentOS release 6.5 (Final)

redhat-release: CentOS release 6.5 (Final)

rocks-release: Rocks release 6.1.1 (Sand Boa)

system-release: CentOS release 6.5 (Final)

system-release-cpe: cpe:/o:centos:linux:6:GA

uname -a:

Linux fl100.local 2.6.32-431.29.2.el6.vSMP.1.x86_64 #1 SMP Tue Sep 30

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Platform Notes (Continued)

01:59:41 PDT 2014 x86_64 x86_64 x86_64 GNU/Linux

run-level 3 Jan 12 00:04

SPEC is set to: /ramfs/SPEC_CPU2006v1.2

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
ramfs	ramfs	0	0	0	-	/ramfs

(End of data from sysinfo program)

General Notes

Binaries compiled on same system.

Base Compiler Invocation

C benchmarks:

icc -m32 -L/share/apps/intel/composer_xe_2015/lib/ia32/

C++ benchmarks:

icpc -m32 -L/share/apps/intel/composer_xe_2015/lib/ia32/

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32

462.libquantum: -DSPEC_CPU_LINUX

483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

-xCORE-AVX2 -O3 -ipo -no-prec-div -opt-prefetch
-opt-mem-layout-trans=3

C++ benchmarks:

-xCORE-AVX2 -O3 -ipo -no-prec-div -opt-prefetch
-opt-mem-layout-trans=3

Base Other Flags

C benchmarks:

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Base Other Flags (Continued)

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.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.xml>

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For other inquiries, please contact webmaster@spec.org.

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