



SPEC[®] CINT2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Oracle Corporation

SPECint[®]_rate2006 = 1380

Sun Fire X4800 (Intel Xeon X7560 2.26GHz)

SPECint_rate_base2006 = 1260

CPU2006 license: 6

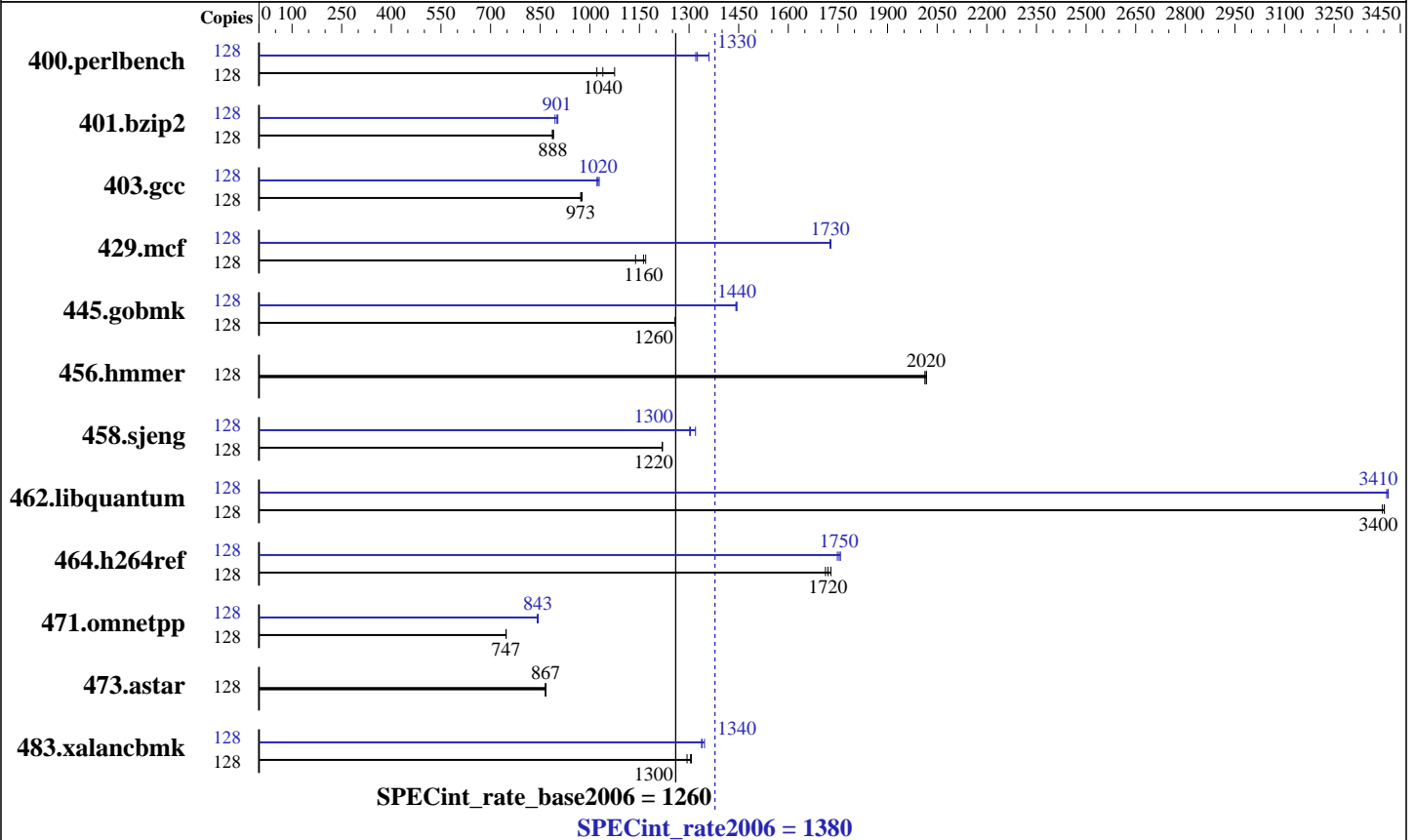
Test date: May-2010

Test sponsor: Oracle Corporation

Hardware Availability: Jul-2010

Tested by: Oracle Corporation

Software Availability: Jun-2010



Hardware

CPU Name: Intel Xeon X7560
 CPU Characteristics: Intel Turbo Boost Technology up to 2.67 GHz
 CPU MHz: 2266
 FPU: Integrated
 CPU(s) enabled: 64 cores, 8 chips, 8 cores/chip, 2 threads/core
 CPU(s) orderable: 4,8 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: 24 MB I+D on chip per chip
 Other Cache: None
 Memory: 256 GB (64x4GB, DDR3-1066 CL7 dual-rank ECC Reg)
 Disk Subsystem: 3 x 300 GB, SAS, 10000 RPM in RAIDZ Configuration
 Other Hardware: None

Software

Operating System: Oracle Solaris 10 10/09
 Compiler: Oracle Solaris Studio Express 6/10
 Auto Parallel: No
 File System: zfs
 System State: Default
 Base Pointers: 32/64-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap Library 9.01 for x64



SPEC CINT2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Oracle Corporation

SPECint_rate2006 = 1380

Sun Fire X4800 (Intel Xeon X7560 2.26GHz)

SPECint_rate_base2006 = 1260

CPU2006 license: 6

Test date: May-2010

Test sponsor: Oracle Corporation

Hardware Availability: Jul-2010

Tested by: Oracle Corporation

Software Availability: Jun-2010

Results Table

Benchmark	Base						Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	128	1163	1080	1224	1020	<u>1203</u>	<u>1040</u>	128	919	1360	<u>944</u>	<u>1330</u>	947	1320
401.bzip2	128	1393	887	1387	891	<u>1391</u>	<u>888</u>	128	1380	895	<u>1371</u>	<u>901</u>	1367	903
403.gcc	128	<u>1059</u>	<u>973</u>	1059	973	1055	977	128	<u>1005</u>	<u>1020</u>	1002	1030	1009	1020
429.mcf	128	1026	1140	999	1170	<u>1004</u>	<u>1160</u>	128	<u>676</u>	<u>1730</u>	676	1730	675	1730
445.gobmk	128	1068	1260	<u>1067</u>	<u>1260</u>	1066	1260	128	<u>930</u>	<u>1440</u>	931	1440	930	1440
456.hammer	128	<u>592</u>	<u>2020</u>	592	2020	593	2010	128	<u>592</u>	<u>2020</u>	592	2020	593	2010
458.sjeng	128	1271	1220	<u>1270</u>	<u>1220</u>	1270	1220	128	<u>1188</u>	<u>1300</u>	1190	1300	1174	1320
462.libquantum	128	<u>780</u>	<u>3400</u>	781	3400	780	3400	128	778	3410	777	3410	<u>777</u>	<u>3410</u>
464.h264ref	128	<u>1647</u>	<u>1720</u>	1654	1710	1638	1730	128	1612	1760	1620	1750	<u>1615</u>	<u>1750</u>
471.omnetpp	128	<u>1071</u>	<u>747</u>	1071	747	1071	747	128	948	844	<u>949</u>	<u>843</u>	951	841
473.astar	128	<u>1037</u>	<u>867</u>	1038	865	1036	867	128	<u>1037</u>	<u>867</u>	1038	865	1036	867
483.xalancbmk	128	683	1290	<u>677</u>	<u>1300</u>	676	1310	128	656	1350	660	1340	<u>659</u>	<u>1340</u>

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

```

ulimit -s unlimited (shell)

/etc/system parameters
tune_t_fsflushr=10
autoup=900
zfs:zfs_arc_max = 0x10000000
lpg_alloc_prefer=1

```

Platform Notes

Default BIOS settings used

Base Compiler Invocation

C benchmarks:
cc

C++ benchmarks:
CC



SPEC CINT2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Oracle Corporation

SPECint_rate2006 = 1380

Sun Fire X4800 (Intel Xeon X7560 2.26GHz)

SPECint_rate_base2006 = 1260

CPU2006 license: 6

Test date: May-2010

Test sponsor: Oracle Corporation

Hardware Availability: Jul-2010

Tested by: Oracle Corporation

Software Availability: Jun-2010

Base Portability Flags

```

400.perlbench: -DSPEC_CPU_SOLARIS_X64 -DSPEC_CPU_LP64
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_SOLARIS -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_SOLARIS -DSPEC_CPU_LP64
464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_SOLARIS

```

Base Optimization Flags

```

C benchmarks:
-fast -xipo=2 -m64 -xaddr32=yes -xpagesize=2M

C++ benchmarks:
-fast -xipo=2 -xpagesize=2M -xalias_level=compatible
-L/data1/SmartHeap_9/lib -R/data1/SmartHeap_9/lib -lsmarheap
-library=stlport4

```

Base Other Flags

```

C benchmarks:
-V -# -xjobs=128

C++ benchmarks:
-verbose=diags,version -xjobs=128

```

Peak Compiler Invocation

```

C benchmarks:
cc

C++ benchmarks:
CC

```

Peak Portability Flags

```

400.perlbench: -DSPEC_CPU_SOLARIS_X64 -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS

```

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Oracle Corporation

SPECint_rate2006 = 1380

Sun Fire X4800 (Intel Xeon X7560 2.26GHz)

SPECint_rate_base2006 = 1260

CPU2006 license: 6

Test date: May-2010

Test sponsor: Oracle Corporation

Hardware Availability: Jul-2010

Tested by: Oracle Corporation

Software Availability: Jun-2010

Peak Portability Flags (Continued)

456.hmmr: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_SOLARIS
483.xalancbmk: -DSPEC_CPU_SOLARIS

Peak Optimization Flags

C benchmarks:

400.perlbench: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=1 -m64
-xalias_level=std -lbsdmalloc

401.bzip2: -fast -xipo=2 -m64 -xpagesize=2M -xalias_level=std
-lumem

403.gcc: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2
-xpagesize=2M -W2,-Rujam -W2,-Rtile -m64
-xalias_level=std

429.mcf: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -m32
-xpagesize=2M -xalias_level=strong -xprefetch=no%auto
-lbsdmalloc

445.gobmk: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -m64 -xpagesize=2M
-xrestrict -xalias_level=strong

456.hmmr: basepeak = yes

458.sjeng: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -m64
-xpagesize=2M -xalias_level=strong

462.libquantum: -fast -xipo=2 -m64 -xalias_level=std

464.h264ref: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -m64
-xalias_level=strong -xrestrict

C++ benchmarks:

471.omnetpp: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2
-xpagesize=2M -library=stlport4
-L/data1/SmartHeap_9/lib -R/data1/SmartHeap_9/lib -lsmartheap

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Oracle Corporation

SPECint_rate2006 = 1380

Sun Fire X4800 (Intel Xeon X7560 2.26GHz)

SPECint_rate_base2006 = 1260

CPU2006 license: 6

Test date: May-2010

Test sponsor: Oracle Corporation

Hardware Availability: Jul-2010

Tested by: Oracle Corporation

Software Availability: Jun-2010

Peak Optimization Flags (Continued)

473.astar: basepeak = yes

483.xalancbmk: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -xunroll=2
-xpagesize=2M -xalias_level=compatible -library=stlport4
-m32
-L/data1/SmartHeap_9/lib -R/data1/SmartHeap_9/lib -lsmartheap

Peak Other Flags

C benchmarks:

-V -# -xjobs=128

C++ benchmarks:

-verbose=diags,version -xjobs=128

The flags file that was used to format this result can be browsed at

http://www.spec.org/cpu2006/flags/Oracle-Solaris-Studio-x86_64.html

You can also download the XML flags source by saving the following link:

http://www.spec.org/cpu2006/flags/Oracle-Solaris-Studio-x86_64.xml

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 v1.1.
Report generated on Tue Sep 13 11:40:16 2016 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 8 July 2010.