SPEC® CINT2006 Result

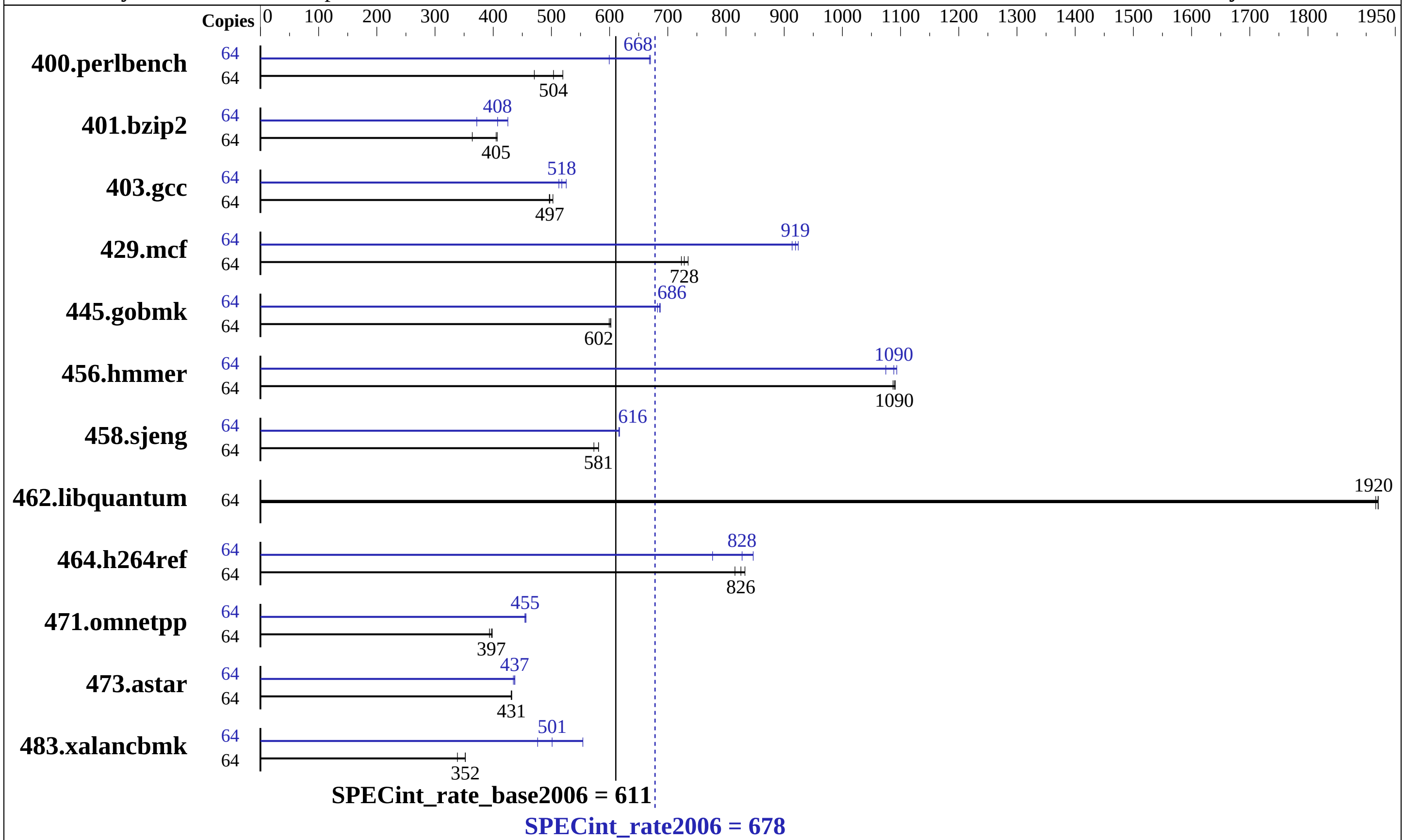
Oracle Corporation

Sun Fire X4470 (Intel Xeon X7550 2.00 GHz)

SPECint®_rate2006 = 678

SPECint_rate_base2006 = 611

CPU2006 license:	6	**Test date:**	Nov-2010
Test sponsor:	Oracle Corporation	**Hardware Availability:**	Jun-2010
Tested by:	Oracle Corporation	**Software Availability:**	Jun-2010



Hardware

CPU Name:	Intel Xeon X7550
CPU Characteristics:	Intel Turbo Boost Technology up to 2.40 GHz
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	32 cores, 4 chips, 8 cores/chip, 2 threads/core
CPU(s) orderable:	1-4 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:	18 MB I+D on chip per chip
Other Cache:	None
Memory:	256 GB (64 x 4 GB 2Rx4 PC3-10600R-9, ECC, see add'l detail in notes)
Disk Subsystem:	1 x 500 GB, SATA, 7200 RPM
Other Hardware:	None

Software

Operating System:	Oracle Solaris 10 9/10
Compiler:	Oracle Solaris Studio Express 6/10
Auto Parallel:	No
File System:	ufs
System State:	Default
Base Pointers:	32/64-bit
Peak Pointers:	32/64-bit
Other Software:	MicroQuill SmartHeap Library 9.01 for x64

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Results Table

	Base							Peak						
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	64	1328	471	**1242**	**504**	1203	520	64	1043	599	**935**	**668**	933	670
401.bzip2	64	1696	364	1517	407	**1525**	**405**	64	1661	372	**1515**	**408**	1453	425
403.gcc	64	1025	503	1038	496	**1036**	**497**	64	**995**	**518**	980	526	1005	513
429.mcf	64	807	723	794	735	**801**	**728**	64	639	914	632	924	**635**	**919**
445.gobmk	64	**1116**	**602**	1115	602	1120	599	64	977	687	984	682	**979**	**686**
456.hmmer	64	**548**	**1090**	547	1090	549	1090	64	546	1090	**549**	**1090**	556	1070
458.sjeng	64	1333	581	**1333**	**581**	1351	573	64	1255	617	**1257**	**616**	1257	616
462.libquantum	64	**691**	**1920**	690	1920	692	1920	64	**691**	**1920**	690	1920	692	1920
464.h264ref	64	1701	833	1737	815	**1716**	**826**	64	1673	847	**1711**	**828**	1823	777
471.omnetpp	64	**1008**	**397**	1004	398	1016	394	64	**879**	**455**	876	456	880	455
473.astar	64	1043	431	**1042**	**431**	1040	432	64	1034	435	**1029**	**437**	1028	437
483.xalancbmk	64	1305	339	1254	352	**1254**	**352**	64	927	476	797	554	**881**	**501**

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
   lpg_alloc_prefer=1
```

Platform Notes

```
The system automatically configures the memory to run at 1066 MHz.
Default BIOS settings used.
```

Base Compiler Invocation

C benchmarks:
```
cc
```

C++ benchmarks:
```
CC
```

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.hmmer: -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 -lsmartheap
-library=stlport4

Base Other Flags

C benchmarks:
-V -# -xjobs=64

C++ benchmarks:
-verbose=diags,version -xjobs=64

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

Peak Portability Flags (Continued)

462.libquantum: -DSPEC_CPU_SOLARIS -DSPEC_CPU_LP64
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.hmmer: -xprofile=collect:./feedback(pass 1) -xprofile=use:./feedback(pass 2) -fast -xipo=2 -m64

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

462.libquantum: basepeak = yes

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

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Peak Optimization Flags (Continued)

473.astar: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -m64
-xpagesize=2M -xalias_level=compatible -library=stlport4
-L/data1/SmartHeap_9/lib -R/data1/SmartHeap_9/lib -lsmartheap64

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=64

C++ benchmarks:
-verbose=diags,version -xjobs=64

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Oracle-Solaris-Studio-x86_64.20100901.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Oracle-Solaris-Studio-x86_64.20100901.xml

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

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