



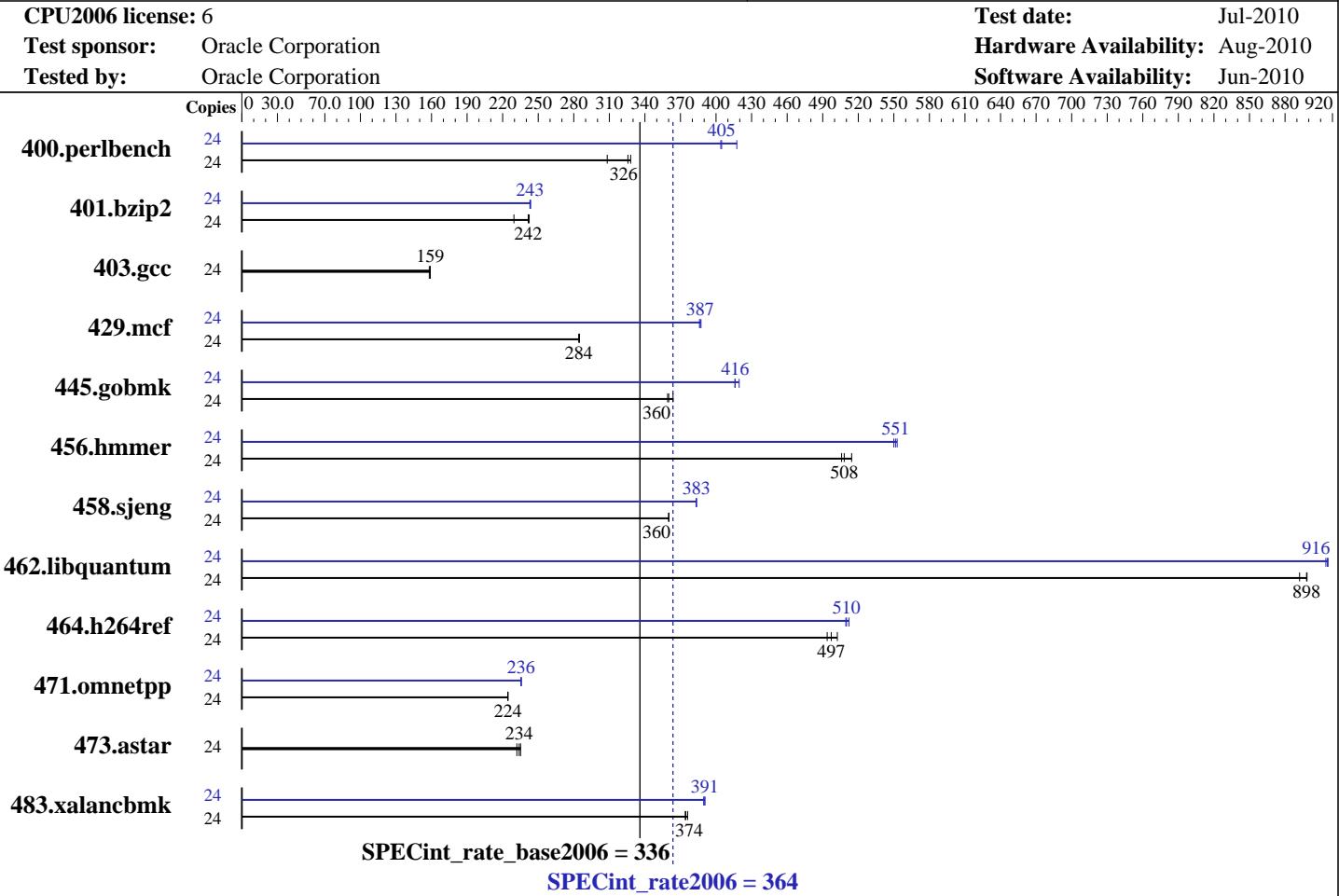
SPEC® CINT2006 Result

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Oracle Corporation

Sun Fire X4270 M2 (Intel Xeon X5680 3.33GHz)

SPECint_rate2006 = 364



Hardware

CPU Name:	Intel Xeon X5680
CPU Characteristics:	Intel Turbo Boost Technology up to 3.60 GHz
CPU MHz:	3333
FPU:	Integrated
CPU(s) enabled:	12 cores, 2 chips, 6 cores/chip, 2 threads/core
CPU(s) orderable:	1 or 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:	12 MB I+D on chip per chip
Other Cache:	None
Memory:	48 GB (12 x 4 GB DDR3-1333 CL9, 2 Rank, ECC)
Disk Subsystem:	1 x 1 TB, SATA, 7200 RPM
Other Hardware:	None

Software

Operating System:	Oracle Solaris 10 10/09
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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Test sponsor: Oracle Corporation

Hardware Availability: Aug-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	24	761	308	715	328	720	326	24	580	404	562	418	579	405
401.bzip2	24	1009	230	955	242	959	242	24	953	243	953	243	951	244
403.gcc	24	1216	159	1216	159	1222	158	24	1216	159	1216	159	1222	158
429.mcf	24	768	285	770	284	770	284	24	566	387	565	387	567	386
445.gobmk	24	692	364	699	360	701	359	24	600	420	605	416	605	416
456.hammer	24	435	514	443	506	441	508	24	407	550	405	553	406	551
458.sjeng	24	806	360	807	360	806	360	24	758	383	757	384	757	383
462.libquantum	24	553	899	554	898	557	892	24	543	916	543	916	544	914
464.h264ref	24	1076	494	1057	502	1068	497	24	1042	509	1041	510	1037	512
471.omnetpp	24	669	224	668	224	668	224	24	636	236	636	236	637	235
473.astar	24	717	235	720	234	726	232	24	717	235	720	234	726	232
483.xalancbmk	24	443	374	440	376	442	374	24	424	391	424	391	425	390

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 131072 (shell): increases stack

/etc/system parameters
tune_t_fsflushr=10
autoup=900
lpg_alloc_prefer=1
```

Platform Notes

Default BIOS settings used except:
 Hardware Prefetch : Enabled
 Adjacent Cache Line Prefetch : Enabled
 Data Reuse Optimization : Disabled
 Intel C-STATE technology : Disabled

General Notes

Environment variables set by runspec before the start of the run:
 SUNW_MP_PROCBind = "TRUE"
 SUNW_MP_THR_IDLE = "SPIN"



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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.hmmr: -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=24

C++ benchmarks:

-verbose=diags,version -xjobs=24

Peak Compiler Invocation

C benchmarks:

cc

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Peak Compiler Invocation (Continued)

C++ benchmarks:

CC

Peak Portability Flags

400.perlbench: -DSPEC_CPU_SOLARIS_X64 -DSPEC_CPU_LP64

403.gcc: -DSPEC_CPU_SOLARIS -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 -xiwo=1 -m64
-xalias_level=std -lbsdmalloc

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

403.gcc: basepeak = yes

429.mcf: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xiwo=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: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xiwo=2 -m64

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

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

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

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Peak Optimization Flags (Continued)

C++ benchmarks:

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

```
473.astar: basepeak = yes
```

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

Peak Other Flags

C benchmarks:

```
-V -# -xjobs=24
```

C++ benchmarks:

```
-verbose=diags,version -xjobs=24
```

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

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Tested with SPEC CPU2006 v1.1.

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