



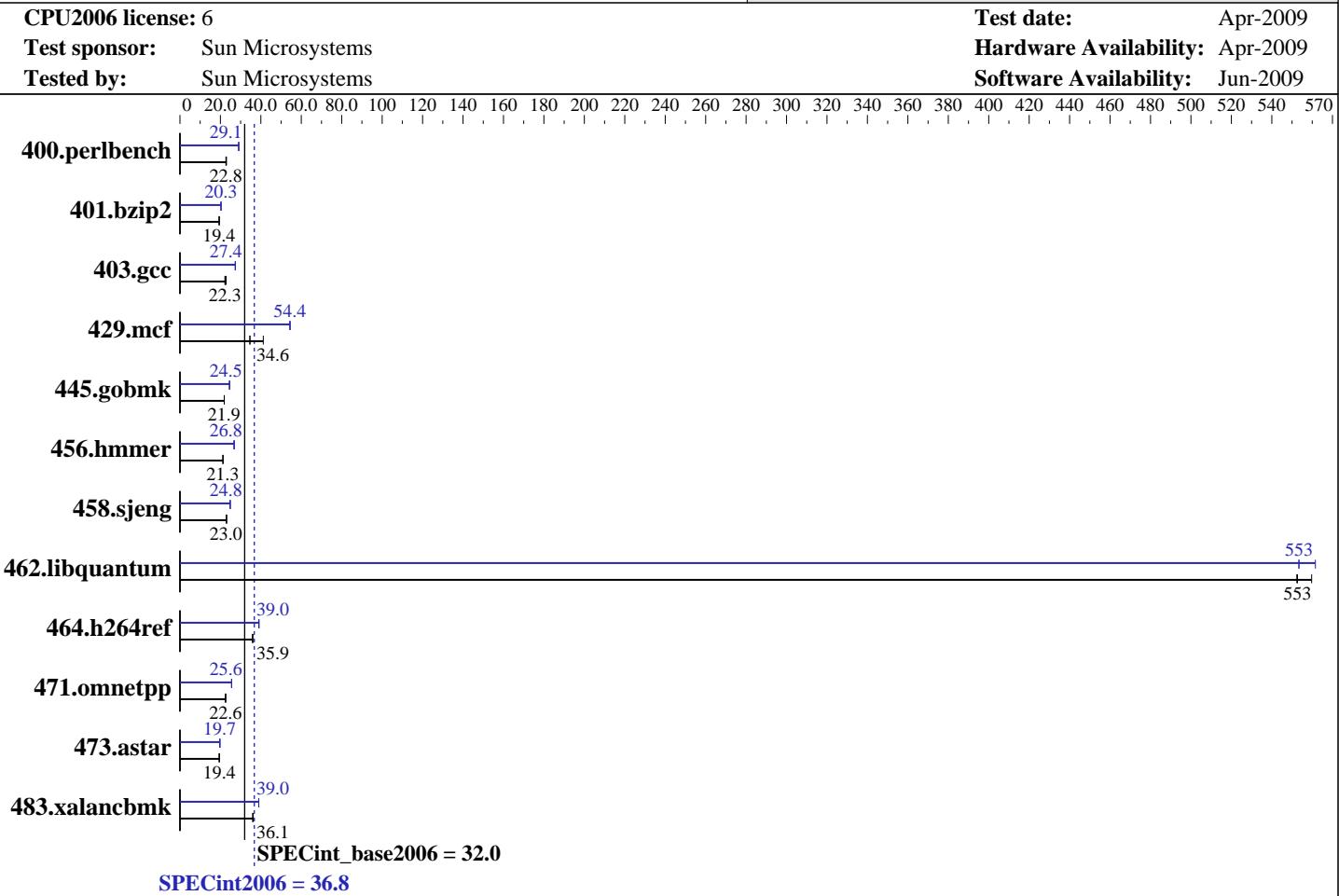
SPEC® CINT2006 Result

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Sun Microsystems

Sun Blade X6270 (Intel Xeon X5570 2.93GHz)

SPECint®2006 = 36.8



Hardware		Software	
CPU Name:	Intel Xeon X5570	Operating System:	OpenSolaris 2008.11
CPU Characteristics:	Intel Turbo Boost Technology up to 3.33 GHz	Compiler:	Sun Studio 12 Update 1 (internal build 39.0)
CPU MHz:	2933	Auto Parallel:	Yes
FPU:	Integrated	File System:	zfs with gzip compression
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip, 2 threads/core	System State:	Default
CPU(s) orderable:	1 or 2 chips	Base Pointers:	64-bit
Primary Cache:	32 KB I + 32 KB D on chip per core	Peak Pointers:	32/64-bit
Secondary Cache:	256 KB I+D on chip per core	Other Software:	MicroQuill SmartHeap Library 9.01 for x64
L3 Cache:	8 MB I+D on chip per chip		
Other Cache:	None		
Memory:	24 GB (6 x 4 GB DDR3-1333)		
Disk Subsystem:	134 GB using 1x ST914602SSUN146GSAS SAS 10 K RPM		
Other Hardware:	None		



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Hardware Availability: Apr-2009

Software Availability: Jun-2009

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	430	22.7	425	23.0	428	22.8	337	29.0	336	29.1	336	29.1
401.bzip2	498	19.4	497	19.4	497	19.4	476	20.3	476	20.3	475	20.3
403.gcc	352	22.8	361	22.3	361	22.3	294	27.4	294	27.4	294	27.4
429.mcf	264	34.6	221	41.2	263	34.6	168	54.4	168	54.4	168	54.4
445.gobmk	479	21.9	479	21.9	478	21.9	428	24.5	428	24.5	428	24.5
456.hmmer	438	21.3	439	21.3	438	21.3	348	26.8	348	26.8	348	26.8
458.sjeng	526	23.0	526	23.0	526	23.0	487	24.8	487	24.8	487	24.8
462.libquantum	37.5	553	37.5	552	37.0	560	37.4	553	36.9	562	37.4	553
464.h264ref	616	35.9	615	36.0	616	35.9	567	39.0	567	39.0	566	39.1
471.omnetpp	277	22.5	277	22.6	277	22.6	245	25.5	244	25.6	244	25.6
473.astar	361	19.4	361	19.5	361	19.4	356	19.7	356	19.7	356	19.7
483.xalancbmk	191	36.0	191	36.1	191	36.1	177	39.0	177	39.0	177	39.0

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

Operating System Notes

```
ulimit -s 131072 (shell): increases stack

/etc/system parameters
tune_t_fsflushr=10
autoup=900
set lpg_allloc_prefer=1
set zfs:zfs_arc_max = 0x10000000
```

Platform Notes

AMIBIOS Build Date 1/26/09 ID 07.01.36.00
Default BIOS settings used except:
Intel VT-d: Disabled. VT-d, if enabled, supports remapping of I/O DMA transfers for virtualization.

General Notes

Environment variables set by runspec before the start of the run:
OMP_NUM_THREADS = "8"
SUNW_MP_PROCBIND = "true"
SUNW_MP_THR_IDLE = "SPIN"



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SPECint_base2006 = 32.0

Base Compiler Invocation

C benchmarks:

/data1/SUNWspro.b39/SUNWspro/bin/cc

C++ benchmarks:

/data1/SUNWspro.b39/SUNWspro/bin/CC

Base Portability Flags

```
400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS_X64  
401.bzip2: -DSPEC_CPU_LP64  
403.gcc: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS  
429.mcf: -DSPEC_CPU_LP64  
445.gobmk: -DSPEC_CPU_LP64  
456.hammer: -DSPEC_CPU_LP64  
458sjeng: -DSPEC_CPU_LP64  
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS  
464.h264ref: -DSPEC_CPU_LP64  
471.omnetpp: -DSPEC_CPU_LP64  
473.astar: -DSPEC_CPU_LP64  
483.xalancbmk: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS
```

Base Optimization Flags

C benchmarks:

```
-fast -xipo=2 -m64 -xpagesize=2M -xprefetch -xalias_level=std  
-xautopar
```

C++ benchmarks:

```
-fast -xipo=2 -m64 -xpagesize=2M -xvector=simd -xprefetch=no%auto  
-xalias_level=compatible  
-L/data1/SmartHeap_9/lib -R/data1/SmartHeap_9/lib -lsmartheap64  
-library=stlport4
```

Base Other Flags

C benchmarks:

```
-V -# -xjobs=16
```

C++ benchmarks:

```
-verbose=diags,version -xjobs=16
```



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Peak Compiler Invocation

C benchmarks:

/data1/SUNWspro.b39/SUNWspro/bin/cc

C++ benchmarks:

/data1/SUNWspro.b39/SUNWspro/bin/CC

Peak Portability Flags

400.perlbench: -DSPEC_CPU_SOLARIS_IA32
403.gcc: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS
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=2
-xpagesize=2M -xvector=simd -xalias_level=std
-xprefetch=no%auto -lbsdmalloc -lumem

401.bzip2: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xiwo=2 -m64
-xpagesize=2M -xalias_level=strong -xprefetch=no%auto
-lumem

403.gcc: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xiwo=2
-xpagesize=2M -xalias_level=std -m64 -xprefetch=no%auto

429.mcf: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xiwo=2
-xalias_level=strict -xprefetch=no%auto -lbsdmalloc

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

456.hammer: -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 -xvector=simd -xrestrict -xalias_level=std
-xprefetch=no%auto

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Peak Optimization Flags (Continued)

462.libquantum: -fast -xipo=2 -m64 -xpagesize=2M -xautopar -xreduction

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

C++ benchmarks:

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

```
473.astar: -xprofile=collect:./feedback(pass 1)
              -xprofile=use:./feedback(pass 2) -fast -xipo=2 -m64
              -xpagesize=2M
              -L/datal/SmartHeap_9/lib -R/datal/SmartHeap_9/lib -lsmartheap_mt64
              -xalias_level=compatible -library=stlport4 -xautopar
```

```
483.xalancbmk: -xprofile=collect:./feedback(pass 1)
                 -xprofile=use:./feedback(pass 2) -fast -xipo=2 -m64
                 -xpagesize=2M -xunroll=12
                 -L/datal/SmartHeap_9/lib -R/datal/SmartHeap_9/lib -lsmartheap64
                 -library=stlport4
```

Peak Other Flags

C benchmarks:

```
-V -# -xjobs=16
```

C++ benchmarks:

```
-verbose=diags,version -xjobs=16
```

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

http://www.spec.org/cpu2006/flags/Sun-OpenSolaris-Studio-x86_64.20090710.00.html

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

http://www.spec.org/cpu2006/flags/Sun-OpenSolaris-Studio-x86_64.20090710.00.xml



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Tested with SPEC CPU2006 v1.1.

Report generated on Wed Jul 23 01:54:04 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 28 April 2009.