



SPEC® CINT2006 Result

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Sun Microsystems

SPECint®2006 = 37.4

Sun Blade X6275 (Intel Xeon X5570 2.93GHz)

SPECint_base2006 = 31.0

CPU2006 license: 6

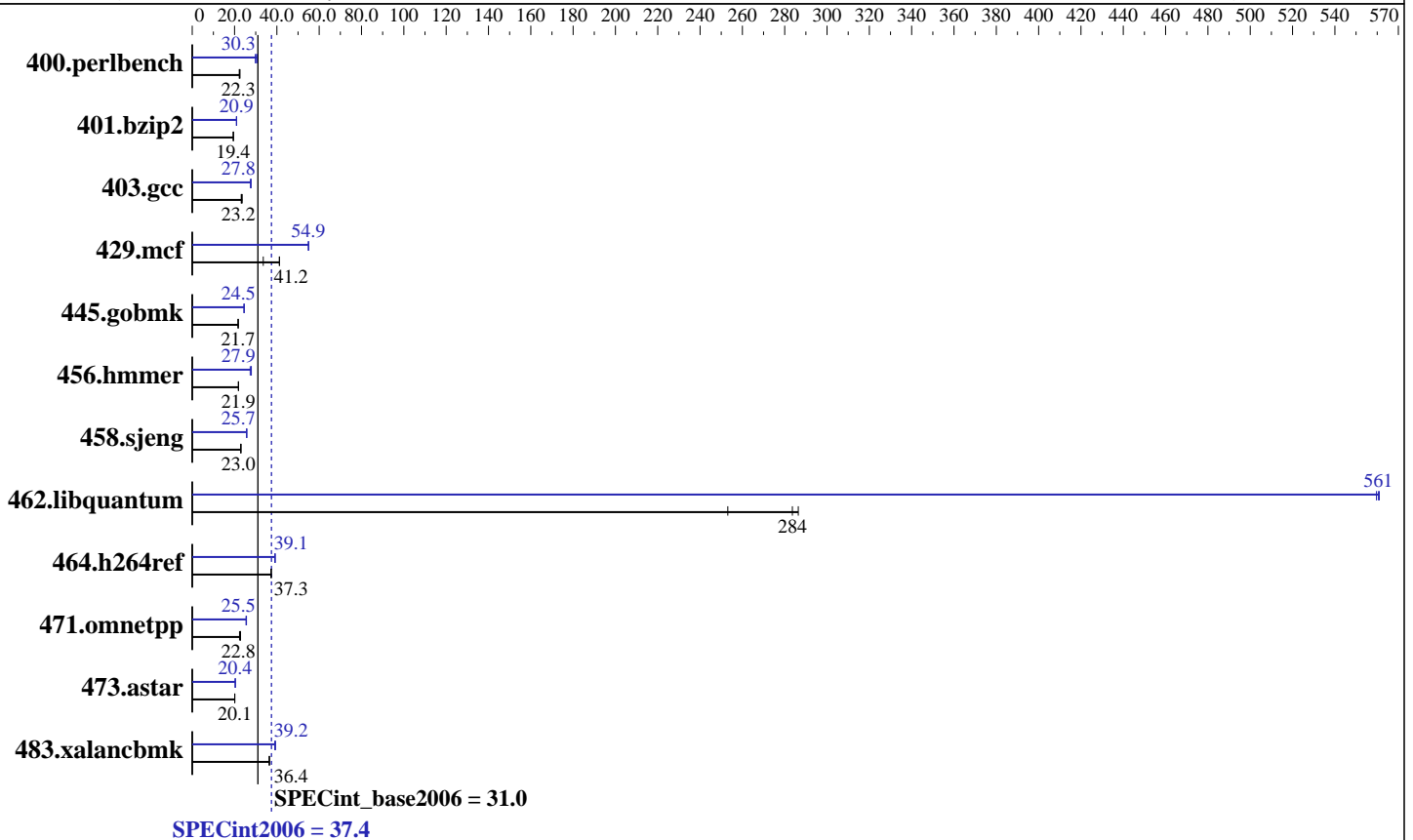
Test date: Jun-2009

Test sponsor: Sun Microsystems

Hardware Availability: Apr-2009

Tested by: Sun Microsystems

Software Availability: Jun-2009



Hardware

CPU Name: Intel Xeon X5570
 CPU Characteristics: Intel Turbo Boost Technology up to 3.33 GHz
 CPU MHz: 2933
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 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: 8 MB I+D on chip per chip
 Other Cache: None
 Memory: 24 GB (6 x 4 GB DDR3-1333)
 Disk Subsystem: 1 x 24 GB, SAS, Sun FlashDisk
 Other Hardware: None

Software

Operating System: OpenSolaris 2009.06
 Compiler: Sun Studio 12 Update 1
 Auto Parallel: Yes
 File System: zfs
 System State: Default
 Base Pointers: 64-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap Library 9.01 for x64
 Apache C++ Standard Library V4.2.1



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	439	22.3	433	22.6	438	22.3	319	30.6	322	30.3	328	29.8
401.bzip2	496	19.4	497	19.4	496	19.4	461	20.9	460	21.0	462	20.9
403.gcc	347	23.2	347	23.2	341	23.6	293	27.5	290	27.8	290	27.8
429.mcf	221	41.2	272	33.6	222	41.2	166	54.9	166	55.0	166	54.9
445.gobmk	483	21.7	483	21.7	484	21.7	428	24.5	428	24.5	428	24.5
456.hammer	427	21.9	427	21.8	427	21.9	341	27.4	334	27.9	335	27.9
458.sjeng	527	23.0	527	23.0	527	23.0	471	25.7	470	25.7	470	25.7
462.libquantum	73.1	284	81.9	253	72.3	286	37.0	561	37.0	560	36.9	561
464.h264ref	593	37.3	593	37.3	593	37.3	566	39.1	565	39.1	565	39.1
471.omnetpp	274	22.8	274	22.8	280	22.3	245	25.5	244	25.6	245	25.5
473.astar	349	20.1	350	20.1	349	20.1	346	20.3	345	20.4	345	20.4
483.xalancbmk	189	36.5	189	36.4	189	36.4	175	39.4	177	39.0	176	39.2

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

Compiler Invocation Notes

The Apache C++ Standard Library V4.2.1 was installed from
<http://stdcxx.apache.org/download.html> using:
 alias gmake=specmake
 gmake BUILDTYPE=8D CONFIG=sunpro.config

Operating System Notes

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

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

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.
 Hyper-Threading Technology : Disabled. If enabled, allows 2 hw threads to execute per core.



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General Notes

Environment variables set by runspec before the start of the run:

OMP_NUM_THREADS = "4"
SUNW_MP_PROCBIND = "true"
SUNW_MP_THR_IDLE = "SPIN"

Base Compiler Invocation

C benchmarks:

cc

C++ benchmarks:

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.hmmer: -DSPEC_CPU_LP64
458.sjeng: -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



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Base Other Flags

C benchmarks:

-V -# -xjobs=8

C++ benchmarks:

-verbose=diags,version -xjobs=8

Peak Compiler Invocation

C benchmarks:

cc

C++ benchmarks:

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 -xipo=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 -xipo=2
-xaddr32=yes -m64 -xpagesize=2M -xalias_level=strong
-xprefetch=no%auto -lumem

403.gcc: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2
-xpagesize=2M -xalias_level=std -xaddr32=yes -m64
-xprefetch=no%auto

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

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Peak Optimization Flags (Continued)

445.gobmk: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xaddr32=yes -m64
-xpagesize=2M -xrestrict -xalias_level=strong -xdepend
-xautopar -lmvec

456.hmmer: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2
-xaddr32=yes -m64

458.sjeng: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2
-xaddr32=yes -m64 -xpagesize=2M -xvector=simd -xrestrict
-xalias_level=std -xprefetch=no%auto

462.libquantum: -fast -xipo=2 -m64 -xpagesize=2M
-W2,-Aparallel:nthreads=8 -xautopar -xreduction

464.h264ref: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2
-xaddr32=yes -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/data1/SmartHeap_9/lib -R/data1/SmartHeap_9/lib -lsmarheap
-library=stlport4

473.astar: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2
-xaddr32=yes -m64 -xpagesize=2M
-L/data1/SmartHeap_9/lib -R/data1/SmartHeap_9/lib -lsmarheap_mt64
-xalias_level=compatible -library=stlport4 -xautopar

483.xalancbmk: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2
-xaddr32=yes -m64 -xpagesize=2M -xunroll=12
-L/data1/SmartHeap_9/lib -R/data1/SmartHeap_9/lib -lsmarheap64
-library=stlport4

Peak Other Flags

C benchmarks:

-V -# -xjobs=8

Continued on next page



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Peak Other Flags (Continued)

C++ benchmarks:

`-verbose=diags,version -xjobs=8`

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.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.xml

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

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