



SPEC® CINT2006 Result

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Sun Microsystems

SPECint®_rate2006 = 260

Sun Blade X6270 (Intel Xeon X5570 2.93GHz)

SPECint_rate_base2006 = 223

CPU2006 license: 6

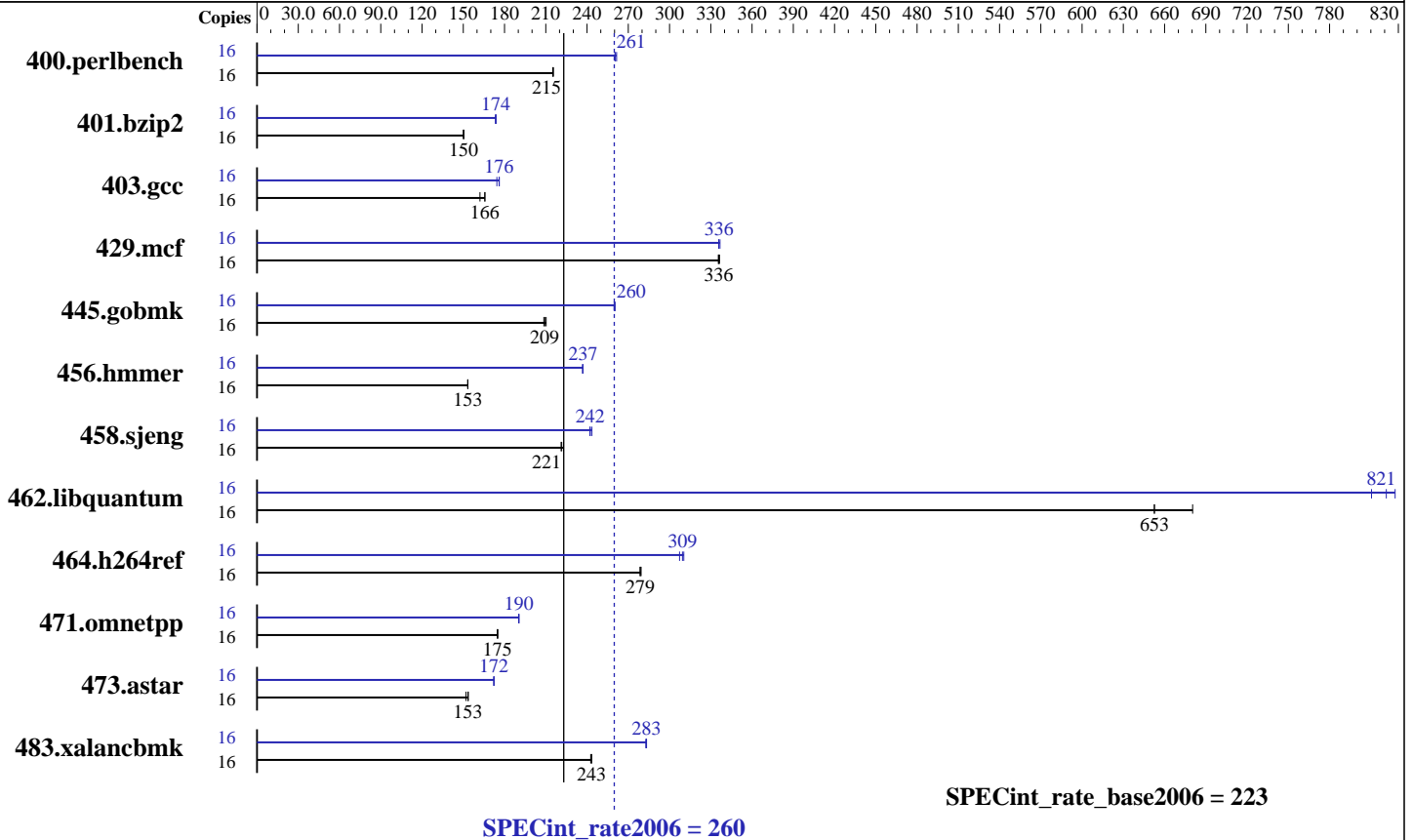
Test date: Apr-2009

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, 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: 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

Software

Operating System: OpenSolaris 2008.11
 Compiler: Sun Studio 12 Update 1 (internal build 39.0)
 Auto Parallel: No
 File System: zfs with gzip compression
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap Library 9.01 for x64



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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	16	<u>726</u>	<u>215</u>	725	216	727	215	16	<u>600</u>	<u>261</u>	601	260	598	262
401.bzip2	16	1029	150	1027	150	<u>1027</u>	<u>150</u>	16	891	173	888	174	<u>889</u>	<u>174</u>
403.gcc	16	794	162	<u>777</u>	<u>166</u>	777	166	16	731	176	738	174	<u>731</u>	<u>176</u>
429.mcf	16	434	336	435	335	<u>435</u>	<u>336</u>	16	435	336	<u>434</u>	<u>336</u>	433	337
445.gobmk	16	798	210	805	209	<u>802</u>	<u>209</u>	16	646	260	<u>645</u>	<u>260</u>	645	260
456.hammer	16	<u>974</u>	<u>153</u>	974	153	973	153	16	<u>630</u>	<u>237</u>	631	237	630	237
458.sjeng	16	<u>875</u>	<u>221</u>	875	221	869	223	16	800	242	<u>799</u>	<u>242</u>	795	244
462.libquantum	16	<u>508</u>	<u>653</u>	487	680	508	653	16	<u>404</u>	<u>821</u>	401	828	409	810
464.h264ref	16	1271	279	1268	279	<u>1270</u>	<u>279</u>	16	1141	310	<u>1144</u>	<u>309</u>	1152	307
471.omnetpp	16	<u>572</u>	<u>175</u>	571	175	572	175	16	525	190	526	190	<u>525</u>	<u>190</u>
473.astar	16	<u>732</u>	<u>153</u>	731	154	739	152	16	<u>652</u>	<u>172</u>	652	172	652	172
483.xalancbmk	16	<u>454</u>	<u>243</u>	454	243	455	243	16	<u>390</u>	<u>283</u>	390	283	391	283

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, along with 'pbind', to assign processes to cores.

Operating System Notes

ulimit -s 131072 (shell): increases stack

```

/etc/system parameters
tune_t_fsflushr=10
autoup=900
set lpg_alloc_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.



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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_SOLARIS_IA32

403.gcc: -DSPEC_CPU_SOLARIS

462.libquantum: -DSPEC_CPU_SOLARIS

483.xalancbmk: -DSPEC_CPU_SOLARIS

Base Optimization Flags

C benchmarks:

-fast -xipo=2 -xpagesize=2M -M /usr/lib/ld/map.bssalign

C++ benchmarks:

-fast -xipo=2 -xpagesize=2M -xvector=simd -xalias_level=compatible

-L/data1/SmartHeap_9/lib -R/data1/SmartHeap_9/lib -lsmartheap

-library=stlport4

Base Other Flags

C benchmarks:

-V -# -xjobs=16

C++ benchmarks:

-verbose=diags,version -xjobs=16

Peak Compiler Invocation

C benchmarks:

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

C++ benchmarks:

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



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Peak Portability Flags

400.perlbench: -DSPEC_CPU_SOLARIS_IA32
403.gcc: -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 -lbsdmalloc
-lumem
401.bzip2: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -m64
-xpagesize=2M -xalias_level=strong -lumem
403.gcc: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2
-xpagesize=2M -xalias_level=std
429.mcf: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2
-xpagesize=2M -xalias_level=std -M /usr/lib/ld/map.bssalign
445.gobmk: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -m64 -xpagesize=2M
-xrestrict -xalias_level=strong -xdepend -lmvec
456.hmmcr: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -m64
-xalias_level=strong -xpagesize=2M
458.sjeng: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -m64
-xpagesize=2M -xvector=simd -xrestrict -xalias_level=std
462.libquantum: -fast -xipo=2 -m64 -xpagesize=2M -xvector=simd
464.h264ref: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -m64
-xpagesize=2M -xalias_level=strong

C++ benchmarks:

471.omnetpp: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2
-xpagesize=2M

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Peak Optimization Flags (Continued)

471.omnetpp (continued):

-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 -m64

-xpagesize=2M

-L/data1/SmartHeap_9/lib -R/data1/SmartHeap_9/lib -lsmarheap_mt64

-xalias_level=compatible -library=stlport4

483.xalancbmk: -xprofile=collect:./feedback(pass 1)

-xprofile=use:./feedback(pass 2) -fast -xipo=2

-xpagesize=2M -xunroll=8

-L/data1/SmartHeap_9/lib -R/data1/SmartHeap_9/lib -lsmarheap

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

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