SPEC® CINT2006 Result

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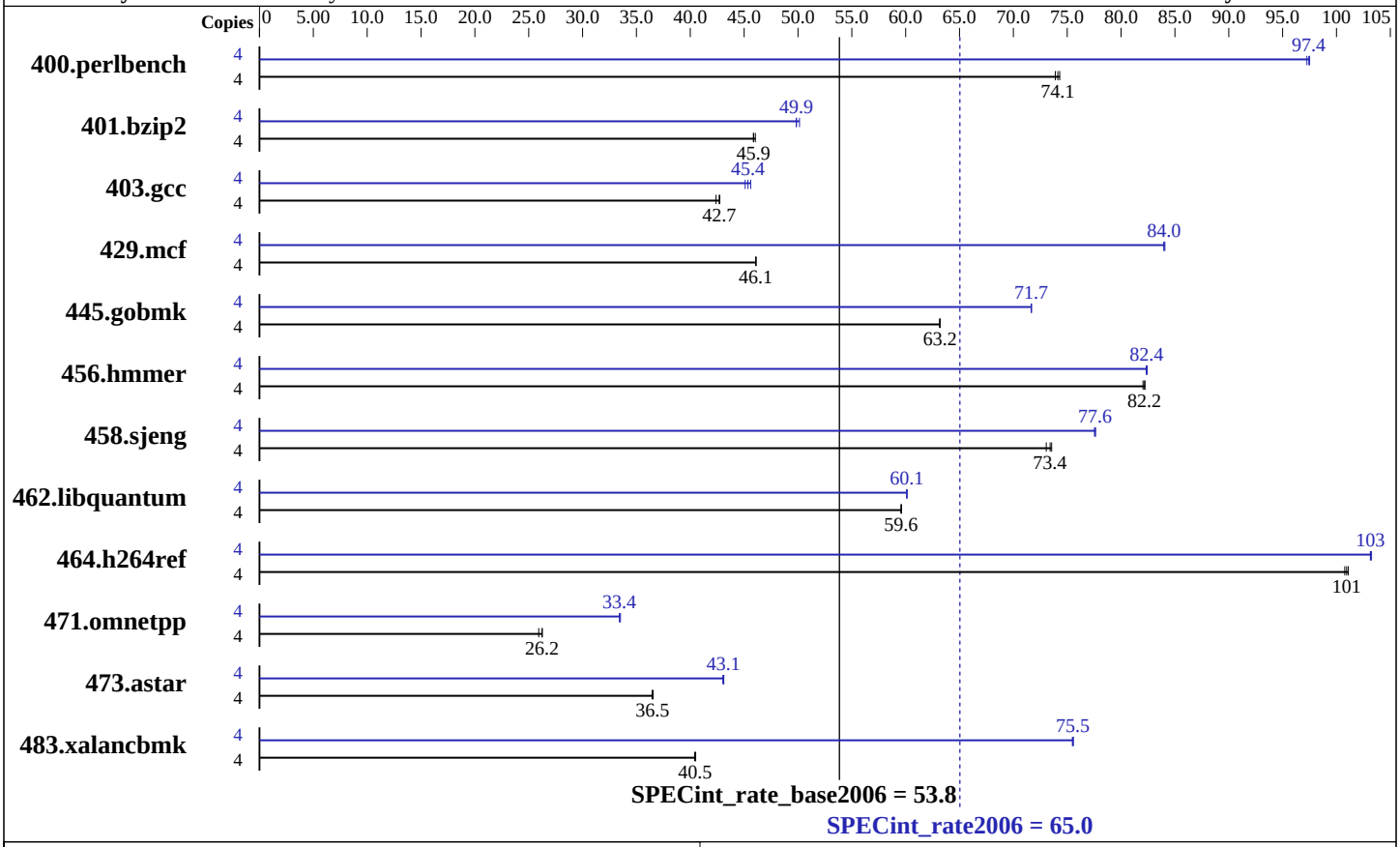
Sun Microsystems
Sun Blade X6250

SPECint®_rate2006 = 65.0

SPECint_rate_base2006 = 53.8

CPU2006 license: 6
Test sponsor: Sun Microsystems
Tested by: Sun Microsystems

Test date: Jun-2007
Hardware Availability: Jun-2007
Software Availability: Jul-2007



Hardware

CPU Name:	Intel Xeon 5160
CPU Characteristics:	1333 MHz system bus
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1-2 (order by number of chips)
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	32 GB (8x4GB DDR2 PC2-5300F 2rank CAS 5-5-5 with ECC)
Disk Subsystem:	SAS, 72 GB, 10K RPM
Other Hardware:	None

Software

Operating System:	Solaris 10 11/06
Compiler:	Sun Studio 12
Auto Parallel:	No
File System:	ufs
System State:	Multiuser, Runlevel 3
Base Pointers:	64-bit
Peak Pointers:	32/64-bit
Other Software:	MicroQuill SmartHeap Library v7.4

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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	4	529	73.9	526	74.3	**527**	**74.1**	4	402	97.3	**401**	**97.4**	401	97.5
401.bzip2	4	842	45.9	838	46.0	**841**	**45.9**	4	770	50.1	774	49.8	**774**	**49.9**
403.gcc	4	753	42.7	760	42.4	**754**	**42.7**	4	706	45.6	714	45.1	**710**	**45.4**
429.mcf	4	791	46.1	792	46.1	**791**	**46.1**	4	434	84.1	434	84.0	**434**	**84.0**
445.gobmk	4	664	63.1	664	63.2	**664**	**63.2**	4	**585**	**71.7**	585	71.7	586	71.7
456.hmmer	4	455	82.0	454	82.2	**454**	**82.2**	4	453	82.4	**453**	**82.4**	453	82.3
458.sjeng	4	663	73.1	658	73.6	**659**	**73.4**	4	**624**	**77.6**	624	77.5	623	77.6
462.libquantum	4	1391	59.6	1390	59.6	**1391**	**59.6**	4	**1379**	**60.1**	1378	60.1	1379	60.1
464.h264ref	4	878	101	**877**	**101**	876	101	4	857	103	**858**	**103**	858	103
471.omnetpp	4	964	25.9	952	26.3	**953**	**26.2**	4	748	33.4	**748**	**33.4**	746	33.5
473.astar	4	770	36.5	768	36.5	**769**	**36.5**	4	651	43.1	653	43.0	**652**	**43.1**
483.xalancbmk	4	**682**	**40.5**	681	40.5	683	40.4	4	**365**	**75.5**	365	75.6	366	75.5

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

Operating System Notes

```
Processes were bound to cores using "submit" and "pbind".

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
```

Platform Notes

```
BIOS configuration:
Adjacent Sector Prefetch = Disable
```

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 -xarch=sse2 -m64

C++ benchmarks:
-fast -xipo=2 -xarch=sse2 -m64 -library=stlport4

Base Other Flags

C benchmarks:
-V

C++ benchmarks:
-verbose=version

Peak Compiler Invocation

C benchmarks:
cc

C++ benchmarks:
CC

Peak Portability Flags

400.perlbench: -DSPEC_CPU_SOLARIS_X64
403.gcc: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS

Continued on next page

Peak Portability Flags (Continued)

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
-xalias_level=std -xvector=simd -xpentium -xpagesize=2m
-lbsdmalloc -L/data1/SmartHeap_7.4/lib -lsmartheap

401.bzip2: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -xpentium
-xarch=sse2 -m64 -xalias_level=strong -xpagesize=2m
-xprefetch=no%auto,no%explicit

403.gcc: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -fstore -xipo=2
-m64 -xalias_level=std -xprefetch=auto -xprefetch_level=2
-xpagesize=2m

429.mcf: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -xarch=sse2
-xalias_level=strict -xpagesize=2m -xpentium -lbsdmalloc

445.gobmk: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -fstore -xarch=sse2
-m64 -xrestrict -xalias_level=strong -xdepend
-xpagesize=2m -lmvec

456.hmmer: -fast -fstore -xipo=2 -xarch=sse2 -m64

458.sjeng: -fast -fstore -xarch=sse2 -m64 -xipo=2 -xprefetch=auto
-xprefetch_level=3 -xpagesize=2m -lmvec

462.libquantum: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -xarch=sse2
-m64 -xunroll=8 -xpagesize=2m

464.h264ref: -fast -xarch=sse2 -m64 -xipo=2 -xvector -xunroll=8
-xalias_level=strong -xrestrict -xpagesize=2m
-xprefetch=no%auto,no%explicit -lmvec

C++ benchmarks:

471.omnetpp: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2
-xprefetch_level=3 -xarch=sse -Qoption ube -fsimple=3

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Peak Optimization Flags (Continued)

471.omnetpp (continued):
-L/data1/SmartHeap_7.4/lib -lsmartheap -library=stlport4

473.astar: -fast -xipo=2 -xarch=sse
-L/data1/SmartHeap_7.4/lib -lsmartheap -library=stlport4

483.xalancbmk: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -xarch=sse2
-xpagesize_stack=2m -L/data1/SmartHeap_7.4/lib -lsmartheap
-library=stlport4

Peak Other Flags

C benchmarks:
-V

C++ benchmarks:
-verbose=version

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio-Opteron.20090715.00.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio-Opteron.20090715.00.xml

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

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