SPEC® CINT2006 Result
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Sun Microsystems
Sun Blade X6250

SPECint®_rate2006 =   65.0
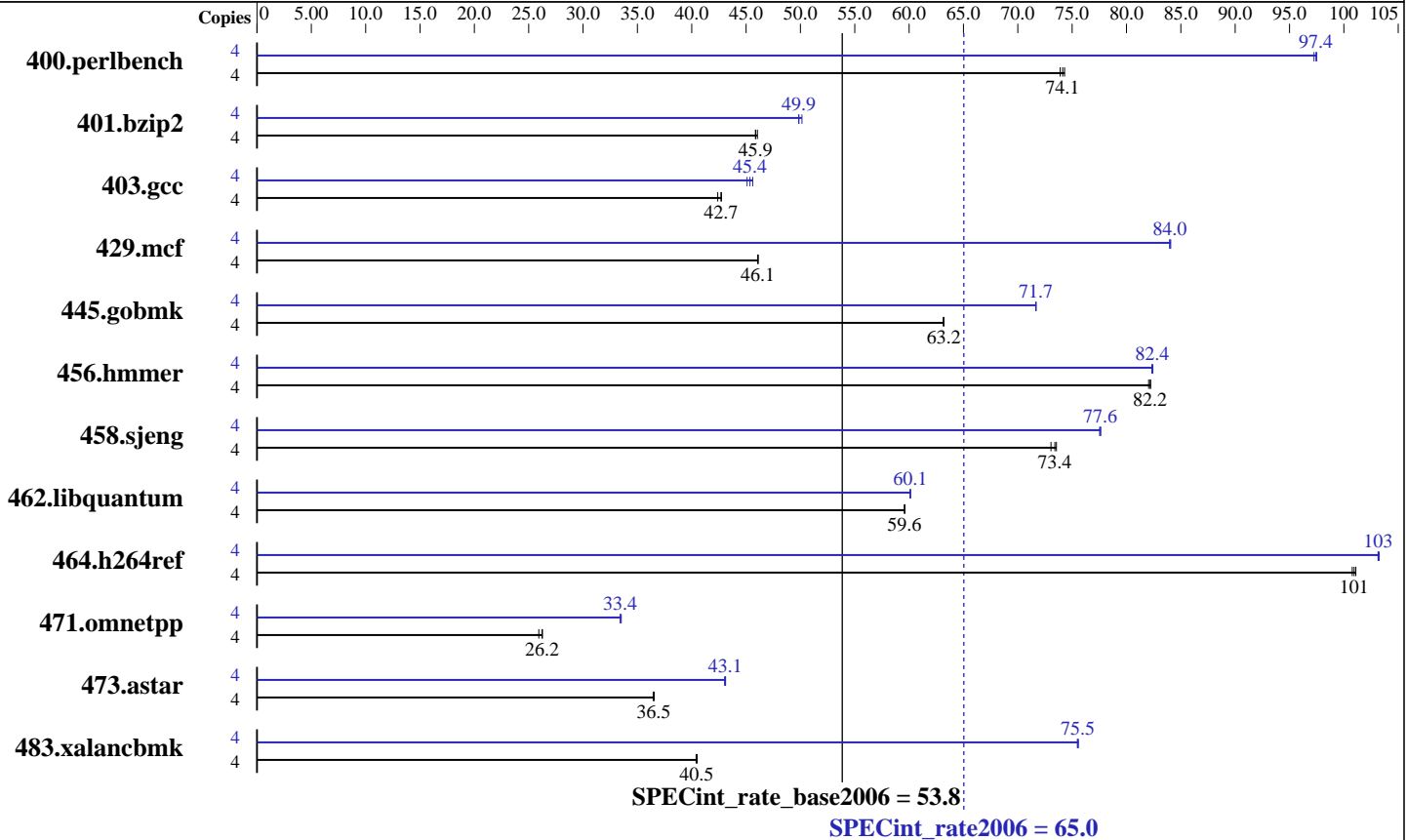
SPECint_rate_base2006 = 53.8

CPU2006 license: 6

Test sponsor: Sun Microsystems

Tested by: Sun Microsystems

Test date: Jun-2007

Hardware Availability: Jun-2007

Software Availability: Jul-2007

Copies

Benchmark	Copies	Peak	Base
400.perlbench	4	97.4	74.1
401.bzip2	4	49.9	45.9
403.gcc	4	45.4	42.7
429.mcf	4	84.0	46.1
445.gobmk	4	71.7	63.2
456.hmmer	4	82.4	82.2
458.sjeng	4	77.6	73.4
462.libquantum	4	60.1	59.6
464.h264ref	4	103	101
471.omnetpp	4	33.4	26.2
473.astar	4	43.1	36.5
483.xalancbmk	4	75.5	40.5

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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

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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
```

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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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