SPEC® CINT2006 Result
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Sun Microsystems
Sun Fire X4150

$SPECint®_rate2006 = $ 102
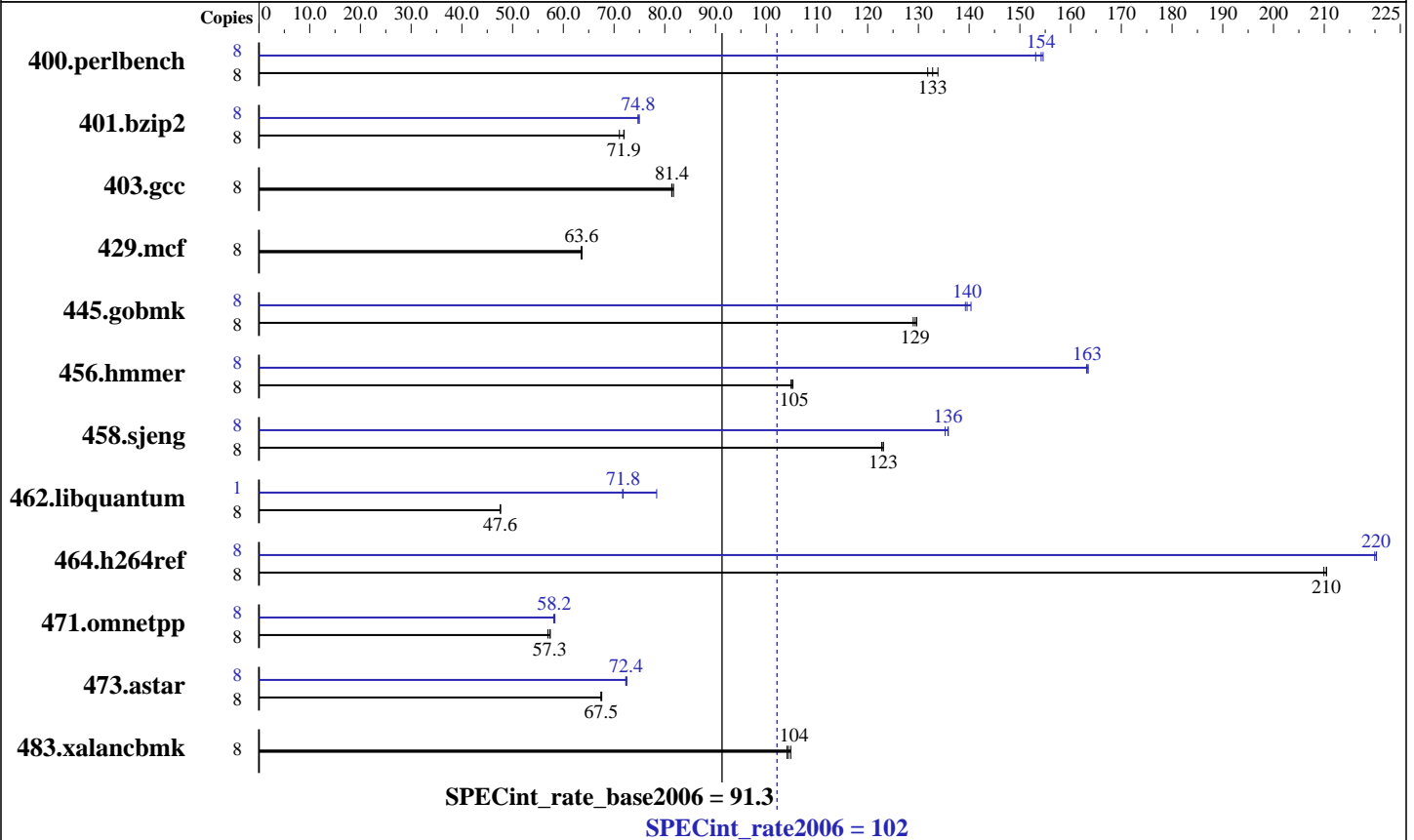
$SPECint_rate_base2006 = $ 91.3

CPU2006 license: 6　　　　　　　　　　　　　　　　**Test date:** Oct-2007
Test sponsor: Sun Microsystems　　　　　　　　**Hardware Availability:** Sep-2007
Tested by: Sun Microsystems　　　　　　　　　**Software Availability:** Nov-2007

Benchmark	Copies	Value
400.perlbench	8	154
400.perlbench	8	133
401.bzip2	8	74.8
401.bzip2	8	71.9
403.gcc	8	81.4
429.mcf	8	63.6
445.gobmk	8	140
445.gobmk	8	129
456.hmmer	8	163
456.hmmer	8	105
458.sjeng	8	136
458.sjeng	8	123
462.libquantum	1	71.8
462.libquantum	8	47.6
464.h264ref	8	220
464.h264ref	8	210
471.omnetpp	8	58.2
471.omnetpp	8	57.3
473.astar	8	72.4
473.astar	8	67.5
483.xalancbmk	8	104

SPECint_rate_base2006 = 91.3

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Hardware
CPU Name: Intel Xeon X5355
CPU Characteristics: Quad Core, 2.667 GHz
CPU MHz: 2667
FPU: Integrated
CPU(s) enabled: 8 cores, 2 chips, 4 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: 8 MB I+D on chip per chip, 4 MB shared / 2 cores
L3 Cache: None
Other Cache: None
Memory: 16 GB (8x2GB DDR2 PC2-5300F 2rank CAS 5-5-5 with ECC)
Disk Subsystem: SAS, 72 GB, 10K RPM
Other Hardware: None

Software
Operating System: SUSE LINUX Enterprise Server 10 SP1 for x86_64
Compiler: Intel C++ and Fortran Compiler for Linux32 and Linux64 version 10.1 Build 20070725
Auto Parallel: Yes
File System: ReiserFS
System State: Multi-user, run level 3
Base Pointers: 32-bit
Peak Pointers: 32/64-bit
Other Software: SmartHeap library V8.1 Binutils 2.17.50.0.15

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Results Table

Benchmark	Base Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Peak Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	584	134	593	132	**589**	**133**	8	510	153	506	155	**507**	**154**
401.bzip2	8	1086	71.1	1072	72.0	**1074**	**71.9**	8	**1032**	**74.8**	1030	75.0	1033	74.7
403.gcc	8	792	81.4	**791**	**81.4**	788	81.7	8	792	81.4	**791**	**81.4**	788	81.7
429.mcf	8	**1147**	**63.6**	1149	63.5	1146	63.7	8	**1147**	**63.6**	1149	63.5	1146	63.7
445.gobmk	8	647	130	**649**	**129**	651	129	8	**601**	**140**	598	140	603	139
456.hmmer	8	**710**	**105**	709	105	712	105	8	**457**	**163**	458	163	457	163
458.sjeng	8	789	123	**787**	**123**	786	123	8	712	136	716	135	**713**	**136**
462.libquantum	8	3483	47.6	3483	47.6	**3483**	**47.6**	1	289	71.7	264	78.4	**289**	**71.8**
464.h264ref	8	841	210	**841**	**210**	843	210	8	804	220	805	220	**804**	**220**
471.omnetpp	8	871	57.4	**872**	**57.3**	878	57.0	8	857	58.3	**858**	**58.2**	861	58.1
473.astar	8	**832**	**67.5**	833	67.4	831	67.6	8	**776**	**72.4**	777	72.3	774	72.5
483.xalancbmk	8	527	105	530	104	**529**	**104**	8	527	105	530	104	**529**	**104**

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

Operating System Notes

```
'ulimit -s unlimited' was used to set the stacksize to unlimited
OMP_NUM_THREADS set to 8
KMP_STACKSIZE set to 64M
KMP_AFFINITY set to physical,0
```

Platform Notes

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

General Notes

```
All benchmarks were compiled in 32-bit mode except 401.bzip2
and 456.hmmer for peak were compiled in 64-bit mode
```

Base Compiler Invocation

C benchmarks:
```
icc
```

C++ benchmarks:
```
icpc
```

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Base Portability Flags

```
    400.perlbench: -DSPEC_CPU_LINUX_IA32
    462.libquantum: -DSPEC_CPU_LINUX
    483.xalancbmk: -DSPEC_CPU_LINUX
```

Base Optimization Flags

C benchmarks:

```
    -fast -inline-calloc -opt-malloc-options=3
```

C++ benchmarks:

```
    -xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
    -L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap
```

Base Other Flags

C benchmarks:

```
        403.gcc: -Dalloca=_alloca
```

Peak Compiler Invocation

C benchmarks (except as noted below):
```
    icc
```
```
    401.bzip2: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc
            -L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib
            -I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include

    456.hmmer: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc
            -L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib
            -I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include
```

C++ benchmarks:
```
    icpc
```

Peak Portability Flags

```
    400.perlbench: -DSPEC_CPU_LINUX_IA32
    401.bzip2: -DSPEC_CPU_LP64
    456.hmmer: -DSPEC_CPU_LP64
    462.libquantum: -DSPEC_CPU_LINUX
```

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Peak Portability Flags (Continued)

483.xalancbmk: `-DSPEC_CPU_LINUX`

Peak Optimization Flags

C benchmarks:

400.perlbench: `-prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias`
`-prefetch`

401.bzip2: `-prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch`

403.gcc: `basepeak = yes`

429.mcf: `basepeak = yes`

445.gobmk: `-prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo`
`-no-prec-div -ansi-alias`

456.hmmer: `-fast -unroll2 -ansi-alias -opt-multi-version-aggressive`

458.sjeng: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4`

462.libquantum: `-fast -unroll4 -Ob0 -prefetch`
`-opt-streaming-stores always -vec-guard-write`
`-opt-malloc-options=3 -parallel -par-runtime-control`

464.h264ref: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2`
`-ansi-alias`

C++ benchmarks:

471.omnetpp: `-prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo`
`-no-prec-div -ansi-alias -opt-ra-region-strategy=block`
`-Wl,-z,muldefs`
`-L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap`

473.astar: `-prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo`
`-no-prec-div -ansi-alias -opt-ra-region-strategy=routine`
`-Wl,-z,muldefs`
`-L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap`

483.xalancbmk: `basepeak = yes`

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Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.02.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.02.xml

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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