SPEC® CINT2006 Result

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ACTION S.A.

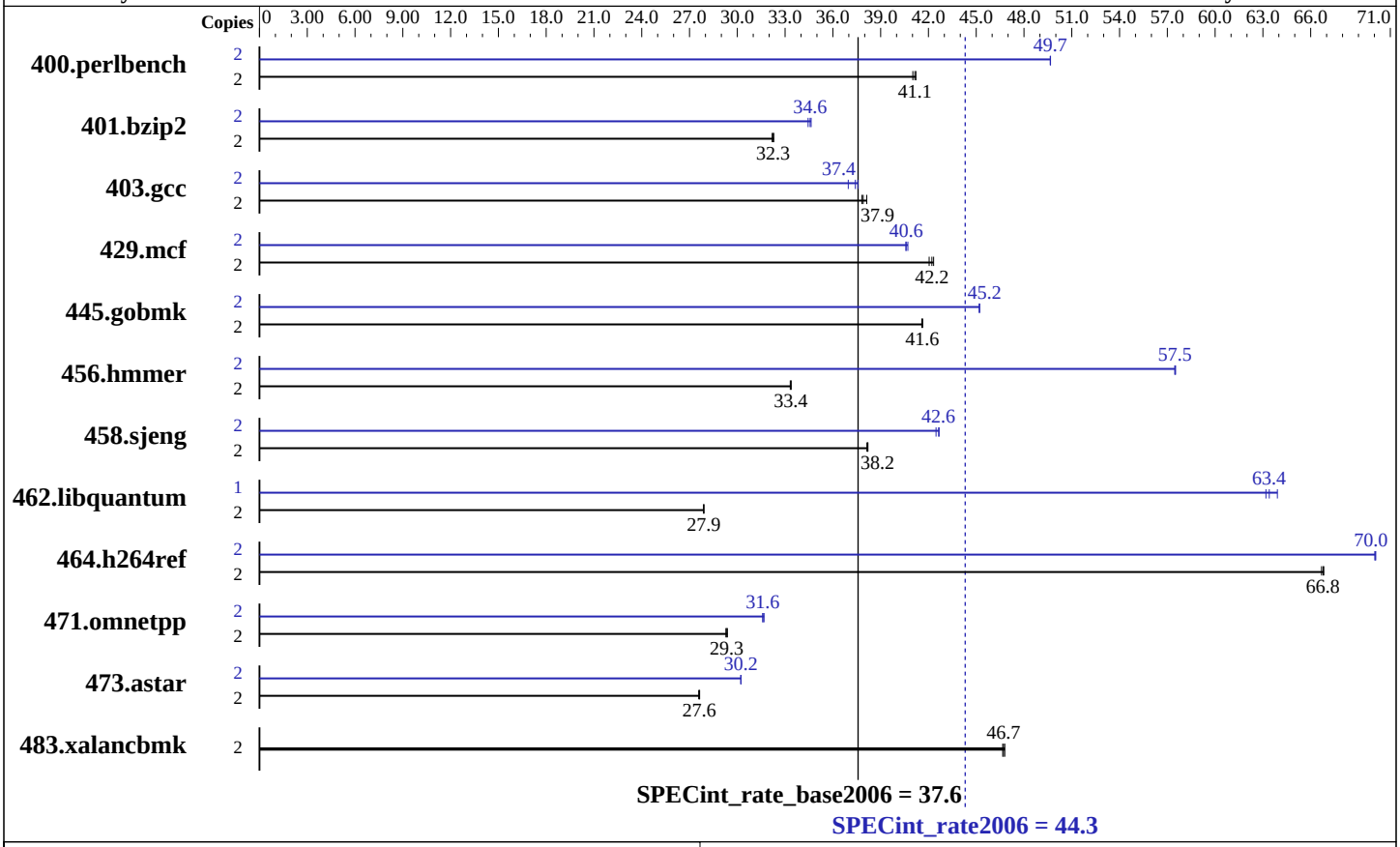
ACTINA SIERRA (Intel Core 2 Duo E8500)

SPECint®_rate2006 = 44.3

SPECint_rate_base2006 = 37.6

CPU2006 license: 9008
Test sponsor: ACTION S.A.
Tested by: Piotr Nowicki

Test date: Aug-2008
Hardware Availability: Dec-2007
Software Availability: Nov-2007



Hardware

CPU Name:	Intel Core 2 Duo E8500
CPU Characteristics:	3.16 GHz, 1333 MHz bus
CPU MHz:	3167
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	6 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	2 GB (2x 1 GB PC2-6400 DDR-2)
Disk Subsystem:	1x 250 GB SATA II, 7200 RPM
Other Hardware:	None

Software

Operating System:	SuSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
Compiler:	Intel C++ Compiler 10.1 for Linux Build 20070913 Package ID: l_cc_p_10.1.008
Auto Parallel:	Yes
File System:	ReiserFS
System State:	Multi-user, run level 3
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	Microquill SmartHeap V8.1 Binutils 2.17.50.0.15

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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	2	476	41.0	474	41.2	**475**	**41.1**	2	394	49.6	393	49.7	**393**	**49.7**
401.bzip2	2	600	32.2	**598**	**32.3**	598	32.3	2	**558**	**34.6**	560	34.4	557	34.6
403.gcc	2	422	38.1	426	37.8	**425**	**37.9**	2	429	37.6	**430**	**37.4**	436	37.0
429.mcf	2	434	42.0	431	42.3	**432**	**42.2**	2	449	40.6	448	40.7	**449**	**40.6**
445.gobmk	2	504	41.6	**504**	**41.6**	505	41.6	2	464	45.2	**464**	**45.2**	464	45.2
456.hmmer	2	559	33.4	560	33.3	**559**	**33.4**	2	324	57.5	325	57.5	**325**	**57.5**
458.sjeng	2	633	38.2	635	38.1	**634**	**38.2**	2	**568**	**42.6**	570	42.5	567	42.7
462.libquantum	2	**1485**	**27.9**	1485	27.9	1486	27.9	1	**327**	**63.4**	324	63.9	328	63.2
464.h264ref	2	**663**	**66.8**	664	66.7	662	66.8	2	632	70.0	**632**	**70.0**	632	70.1
471.omnetpp	2	427	29.3	**426**	**29.3**	425	29.4	2	395	31.7	396	31.6	**395**	**31.6**
473.astar	2	509	27.6	508	27.6	**508**	**27.6**	2	465	30.2	464	30.2	**464**	**30.2**
483.xalancbmk	2	295	46.8	**295**	**46.7**	296	46.7	2	295	46.8	**295**	**46.7**	296	46.7

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

General Notes

```
All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hmmer,
for peak, are compiled in 64-bit mode.
Taskset command was used to bind processes to CPUs.
```

Base Compiler Invocation

C benchmarks:
`icc`

C++ benchmarks:
`icpc`

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`

Continued on next page

Base Optimization Flags (Continued)

C++ benchmarks:
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/spec/users/rahul/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: /opt/intel/cce/10.1.008/bin/icc
-L/opt/intel/cce/10.1.008/lib
-I/opt/intel/cce/10.1.008/include

456.hmmer: /opt/intel/cce/10.1.008/bin/icc
-L/opt/intel/cce/10.1.008/lib
-I/opt/intel/cce/10.1.008/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
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

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

Continued on next page

Peak Optimization Flags (Continued)

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

403.gcc: `-fast -inline-calloc -opt-malloc-options=3`

429.mcf: `-fast -prefetch`

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/spec/users/rahul/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/spec/users/rahul/cpu2006.1.0/lib -lsmartheap`

483.xalancbmk: `basepeak = yes`

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-ic10.1-int-linux64-revC.20090714.00.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/Intel-ic10.1-int-linux64-revC.20090714.00.xml`

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Tested with SPEC CPU2006 v1.0.1.
Report generated on Tue Jul 22 19:33:47 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 16 September 2008.