



SPEC® CINT2006 Result

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Fujitsu

SPECint®_rate2006 = 66.7

PRIMERGY TX150 S7, Intel Core i3-560, 3.33 GHz

SPECint_rate_base2006 = 63.1

CPU2006 license: 19

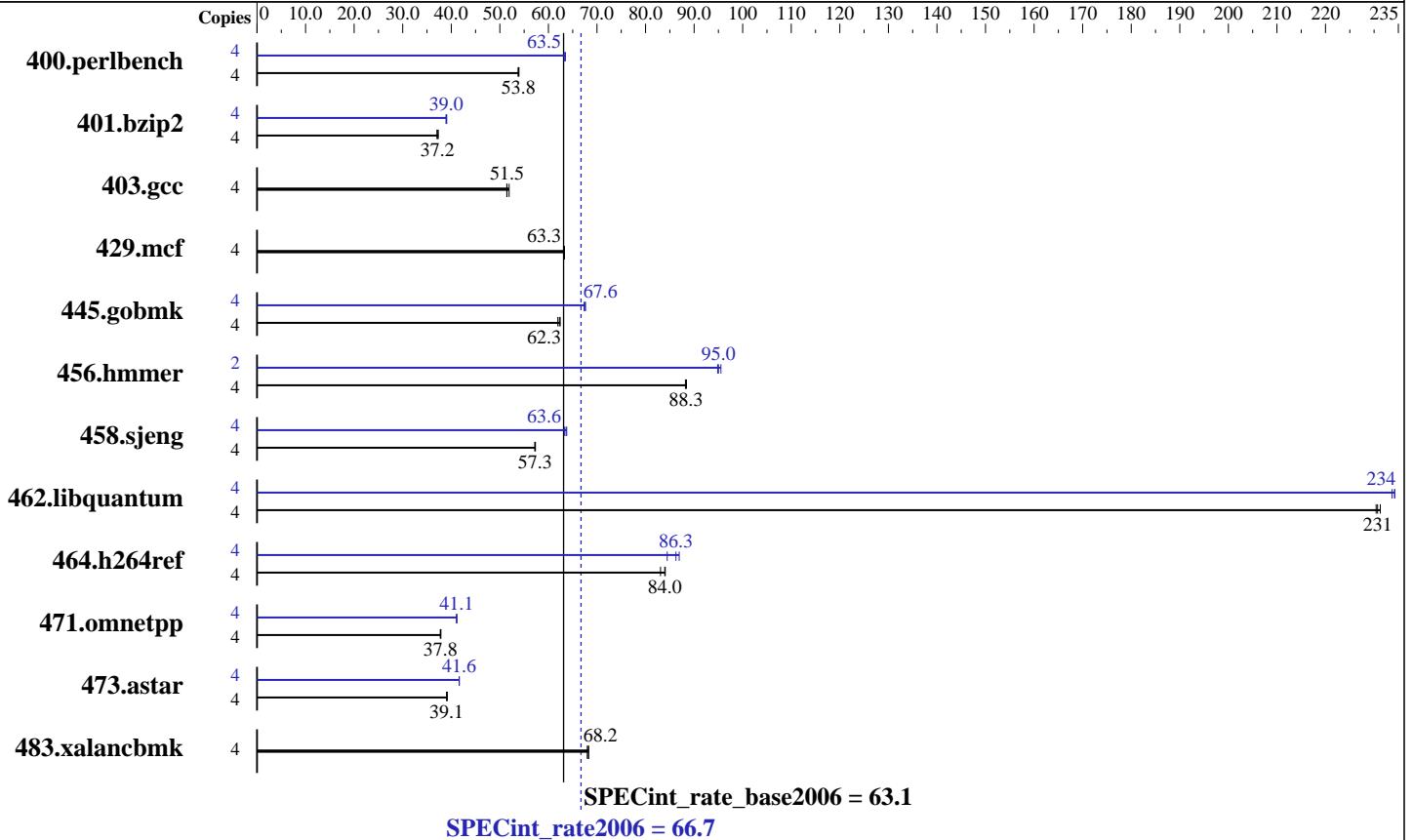
Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Aug-2010

Hardware Availability: Aug-2010

Software Availability: Jan-2010



Hardware

CPU Name: Intel Core i3-560
 CPU Characteristics: 3333
 CPU MHz: 3333
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip, 2 threads/core
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 256 KB I+D on chip per core
 L3 Cache: 4 MB I+D on chip per chip
 Other Cache: None
 Memory: 16 GB (4x4 GB PC3-10600E, 2 rank, CL9-9-9, ECC)
 Disk Subsystem: 1 x SAS, 300 GB, 10000 RPM
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64), Kernel 2.6.27.19-5-default
 Compiler: Intel C++ Professional Compiler for IA32 and Intel 64, Version 11.1 Build 20091130 Package ID: 1_cproc_p_11.1.064
 Auto Parallel: No
 File System: ext3
 System State: Run level 3 (multi-user)
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Microquill SmartHeap V8.1



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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 | 727 | 53.8 | <u>726</u> | <u>53.8</u> | 725 | 53.9 | 4 | 618 | 63.3 | <u>616</u> | <u>63.5</u> | 616 | 63.5 |
| 401.bzip2 | 4 | 1034 | 37.3 | <u>1039</u> | <u>37.2</u> | 1042 | 37.0 | 4 | 988 | 39.1 | <u>990</u> | <u>39.0</u> | 992 | 38.9 |
| 403.gcc | 4 | 626 | 51.4 | 620 | 51.9 | <u>625</u> | <u>51.5</u> | 4 | 626 | 51.4 | 620 | 51.9 | <u>625</u> | <u>51.5</u> |
| 429.mcf | 4 | 576 | 63.3 | <u>576</u> | <u>63.3</u> | 577 | 63.3 | 4 | 576 | 63.3 | <u>576</u> | <u>63.3</u> | 577 | 63.3 |
| 445.gobmk | 4 | 677 | 61.9 | 672 | 62.4 | <u>674</u> | <u>62.3</u> | 4 | 621 | 67.6 | <u>621</u> | <u>67.6</u> | 623 | 67.3 |
| 456.hammer | 4 | <u>423</u> | <u>88.3</u> | 422 | 88.4 | 423 | 88.2 | 2 | <u>196</u> | <u>95.0</u> | 197 | 94.8 | 195 | 95.5 |
| 458.sjeng | 4 | <u>845</u> | <u>57.3</u> | 846 | 57.2 | 844 | 57.3 | 4 | <u>761</u> | <u>63.6</u> | 759 | 63.8 | 765 | 63.3 |
| 462.libquantum | 4 | 360 | 230 | 358 | 231 | <u>359</u> | <u>231</u> | 4 | <u>354</u> | <u>234</u> | 354 | 234 | 355 | 234 |
| 464.h264ref | 4 | <u>1054</u> | <u>84.0</u> | 1065 | 83.1 | 1053 | 84.1 | 4 | <u>1026</u> | <u>86.3</u> | 1018 | 86.9 | 1048 | 84.5 |
| 471.omnetpp | 4 | 660 | 37.9 | 662 | 37.8 | <u>662</u> | <u>37.8</u> | 4 | 608 | 41.1 | 609 | 41.1 | <u>608</u> | <u>41.1</u> |
| 473.astar | 4 | 717 | 39.2 | <u>719</u> | <u>39.1</u> | 719 | 39.1 | 4 | <u>674</u> | <u>41.6</u> | 674 | 41.6 | 675 | 41.6 |
| 483.xalancbmk | 4 | 404 | 68.3 | 406 | 68.0 | <u>404</u> | <u>68.2</u> | 4 | 404 | 68.3 | 406 | 68.0 | <u>404</u> | <u>68.2</u> |

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.
numactl was used to bind copies to the cores

Operating System Notes

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

General Notes

For information about Fujitsu please visit: <http://www.fujitsu.com>
Binaries were compiled on SLES 10 with Binutils 2.18.50.0.7.20080502

Base Compiler Invocation

C benchmarks:
icc -m32

C++ benchmarks:
icpc -m32



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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:

-xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch

C++ benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/home/cmplr/usr3/alrahate/cpu2006.1.1.icl1.1/libicl1.1-32bit -lsmartheap

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

icc -m32

401.bzip2: icc -m64

456.hmmer: icc -m64

458.sjeng: icc -m64

462.libquantum: icc -m64

C++ benchmarks (except as noted below):

icpc -m32

473.astar: icpc -m64

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64

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Peak Portability Flags (Continued)

456.hmmcr: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -ansi-alias
401.bzip2: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -opt-prefetch -ansi-alias -auto-ilp32
403.gcc: basepeak = yes
429.mcf: basepeak = yes
445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2) -O2
-ipo -no-prec-div -ansi-alias
456.hmmcr: -xSSE4.2 -ipo -O3 -no-prec-div -static -unroll2
-ansi-alias -auto-ilp32
458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -unroll4 -auto-ilp32
462.libquantum: -xSSE4.2 -ipo -O3 -no-prec-div -static -auto-ilp32
-opt-prefetch
464.h264ref: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -unroll2 -ansi-alias

C++ benchmarks:

471.omnetpp: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-ansi-alias -opt-ra-region-strategy=block -Wl,-z,muldefs
-L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-32bit -lsmartheap
473.astar: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-ansi-alias -opt-ra-region-strategy=routine -Wl,-z,muldefs

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Peak Optimization Flags (Continued)

473.astar (continued):

-L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-64bit -lsmartheap64

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-ic11.1-linux64-revE.20100708.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100708.xml>

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

Tested with SPEC CPU2006 v1.1.

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