



SPEC[®] CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

SPECint[®]_rate2006 = 48.3

PRIMERGY RX100 S6, Intel Xeon L3406, 2.26 GHz

SPECint_rate_base2006 = 45.4

CPU2006 license: 19

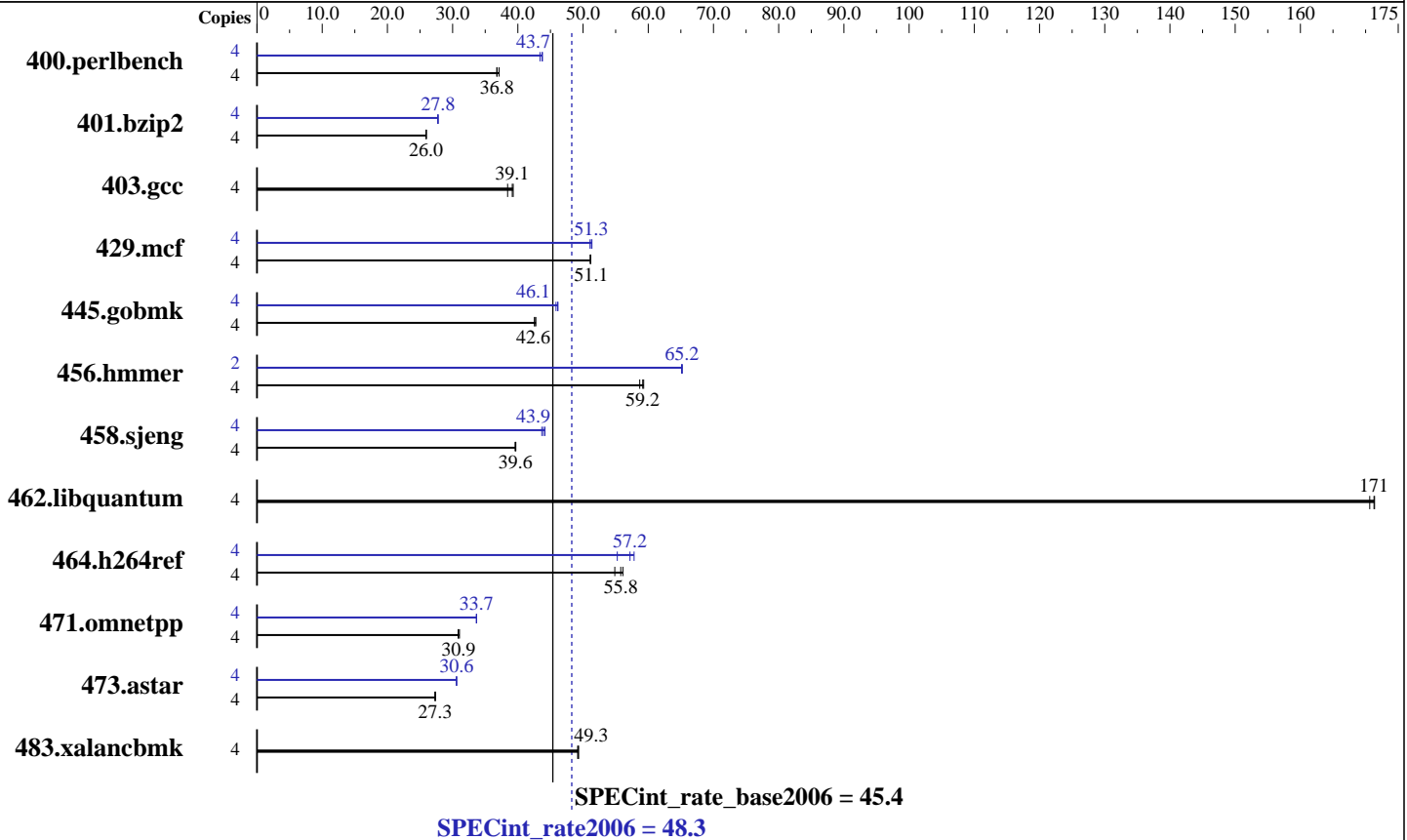
Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Feb-2010

Hardware Availability: Mar-2010

Software Availability: Nov-2009



Hardware

CPU Name: Intel Xeon L3406
 CPU Characteristics: Intel Turbo Boost Technology up to 2.53 GHz
 CPU MHz: 2267
 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: 8 GB (2x4 GB PC3-10600E, 2 rank, CL9-9-9, ECC)
 Disk Subsystem: 1 x SATA, 250 GB, 7200 RPM
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64), Kernel 2.6.27.19-5-smp
 Compiler: Intel C++ Professional Compiler for IA32 and Intel 64, Version 11.1 Build 20091012 Package ID: l_cproc_p_11.1.059
 Auto Parallel: No
 File System: ext3
 System State: Multi-User Run Level 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Microquill SmartHeap V8.1 Binutils 2.18.50.0.7.20080502



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

SPECint_rate2006 = 48.3

PRIMERGY RX100 S6, Intel Xeon L3406, 2.26 GHz

SPECint_rate_base2006 = 45.4

CPU2006 license: 19
Test sponsor: Fujitsu
Tested by: Fujitsu

Test date: Feb-2010
Hardware Availability: Mar-2010
Software Availability: Nov-2009

Results Table

| Benchmark | Base | | | | | | Peak | | | | | | | |
|----------------|--------|---------|-------|--------------------|--------------------|--------------------|--------------------|--------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 4 | 1053 | 37.1 | <u>1061</u> | <u>36.8</u> | 1063 | 36.8 | 4 | 900 | 43.4 | 893 | 43.8 | <u>894</u> | <u>43.7</u> |
| 401.bzip2 | 4 | 1487 | 26.0 | 1489 | 25.9 | <u>1487</u> | <u>26.0</u> | 4 | 1389 | 27.8 | <u>1390</u> | <u>27.8</u> | 1393 | 27.7 |
| 403.gcc | 4 | 820 | 39.3 | <u>823</u> | <u>39.1</u> | 838 | 38.4 | 4 | 820 | 39.3 | <u>823</u> | <u>39.1</u> | 838 | 38.4 |
| 429.mcf | 4 | 714 | 51.1 | 713 | 51.2 | <u>714</u> | <u>51.1</u> | 4 | <u>711</u> | <u>51.3</u> | 710 | 51.4 | 714 | 51.1 |
| 445.gobmk | 4 | 986 | 42.6 | <u>985</u> | <u>42.6</u> | 981 | 42.8 | 4 | <u>910</u> | <u>46.1</u> | 909 | 46.1 | 915 | 45.9 |
| 456.hammer | 4 | 629 | 59.3 | <u>631</u> | <u>59.2</u> | 636 | 58.7 | 2 | 287 | 65.1 | <u>286</u> | <u>65.2</u> | 286 | 65.2 |
| 458.sjeng | 4 | 1219 | 39.7 | <u>1221</u> | <u>39.6</u> | 1223 | 39.6 | 4 | 1108 | 43.7 | 1096 | 44.2 | <u>1102</u> | <u>43.9</u> |
| 462.libquantum | 4 | 486 | 171 | 484 | 171 | <u>484</u> | <u>171</u> | 4 | 486 | 171 | 484 | 171 | <u>484</u> | <u>171</u> |
| 464.h264ref | 4 | 1613 | 54.9 | <u>1587</u> | <u>55.8</u> | 1578 | 56.1 | 4 | 1531 | 57.8 | 1602 | 55.2 | <u>1548</u> | <u>57.2</u> |
| 471.omnetpp | 4 | 805 | 31.1 | <u>809</u> | <u>30.9</u> | 811 | 30.8 | 4 | 742 | 33.7 | <u>743</u> | <u>33.7</u> | 743 | 33.6 |
| 473.astar | 4 | 1026 | 27.4 | 1029 | 27.3 | <u>1027</u> | <u>27.3</u> | 4 | <u>918</u> | <u>30.6</u> | 918 | 30.6 | 917 | 30.6 |
| 483.xalancbmk | 4 | 561 | 49.2 | 560 | 49.3 | <u>560</u> | <u>49.3</u> | 4 | 561 | 49.2 | 560 | 49.3 | <u>560</u> | <u>49.3</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>

Base Compiler Invocation

C benchmarks:
icc -m32

C++ benchmarks:
icpc -m32

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

SPECint_rate2006 = 48.3

PRIMERGY RX100 S6, Intel Xeon L3406, 2.26 GHz

SPECint_rate_base2006 = 45.4

CPU2006 license: 19

Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Feb-2010

Hardware Availability: Mar-2010

Software Availability: Nov-2009

Base Portability Flags (Continued)

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.ic11.1/libic11.1-32bit -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

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
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

SPECint_rate2006 = 48.3

PRIMERGY RX100 S6, Intel Xeon L3406, 2.26 GHz

SPECint_rate_base2006 = 45.4

CPU2006 license: 19

Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Feb-2010

Hardware Availability: Mar-2010

Software Availability: Nov-2009

Peak Portability Flags (Continued)

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

445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2) -O2
-ipo -no-prec-div -ansi-alias

456.hmmr: -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: basepeak = yes

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

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

SPECint_rate2006 = 48.3

PRIMERGY RX100 S6, Intel Xeon L3406, 2.26 GHz

SPECint_rate_base2006 = 45.4

CPU2006 license: 19

Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Feb-2010

Hardware Availability: Mar-2010

Software Availability: Nov-2009

Peak Optimization Flags (Continued)

483.xalanbmk: 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-int-linux64-revE.20100202.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-int-linux64-revE.20100202.xml>

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU2006 v1.1.
Report generated on Wed Jul 23 09:39:48 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 14 April 2010.