SPEC® CINT2006 Result

Fujitsu

PRIMERGY TX300 S6, Intel Xeon X5647, 2.93 GHz

$SPECint®\_rate2006 = 136$

$SPECint\_rate\_base2006 = 129$

CPU2006 license:	19	**Test date:**	Jan-2011
Test sponsor:	Fujitsu	**Hardware Availability:**	Feb-2011
Tested by:	Fujitsu	**Software Availability:**	Jan-2011

Copies 0 20.0 50.0 80.0 110 130 150 170 190 210 230 250 270 290 310 330 350 370 390 410 430 450 470 490 510 530 550 570 590 630

- 400.perlbench — 8: 126; 8: 103
- 401.bzip2 — 8: 83.1; 8: 77.3
- 403.gcc — 8: 97.9
- 429.mcf — 4: 153; 8: 136
- 445.gobmk — 8: 124; 8: 116
- 456.hmmer — 4: 178; 8: 163
- 458.sjeng — 8: 119; 8: 113
- 462.libquantum — 8: 627
- 464.h264ref — 8: 162
- 471.omnetpp — 8: 95.5; 8: 88.7
- 473.astar — 8: 80.1
- 483.xalancbmk — 8: 130

SPECint_rate_base2006 = 129

SPECint_rate2006 = 136

Hardware

CPU Name:	Intel Xeon X5647
CPU Characteristics:	Intel Turbo Boost Technology up to 3.20 GHz
CPU MHz:	2933
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip, 2 threads/core
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	256 KB I+D on chip per core
L3 Cache:	12 MB I+D on chip per chip
Other Cache:	None
Memory:	24 GB (6 x 4 GB 2Rx4 PC3-10600R-9, ECC)
Disk Subsystem:	1 x SAS, 300 GB, 10000 RPM
Other Hardware:	--

Software

Operating System:	SUSE Linux Enterprise Server 11 (x86_64) with SP1, Kernel 2.6.32.12-0.7-default
Compiler:	Intel C++ Compiler XE for applications running on IA-32 Version 12.0.1.116 Build 20101116
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 V9.01 Binaries compiled on RHEL5.5 with binutils-2.17.50.0.6-14.el5

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY TX300 S6, Intel Xeon X5647, 2.93 GHz

SPECint_rate2006 =   136
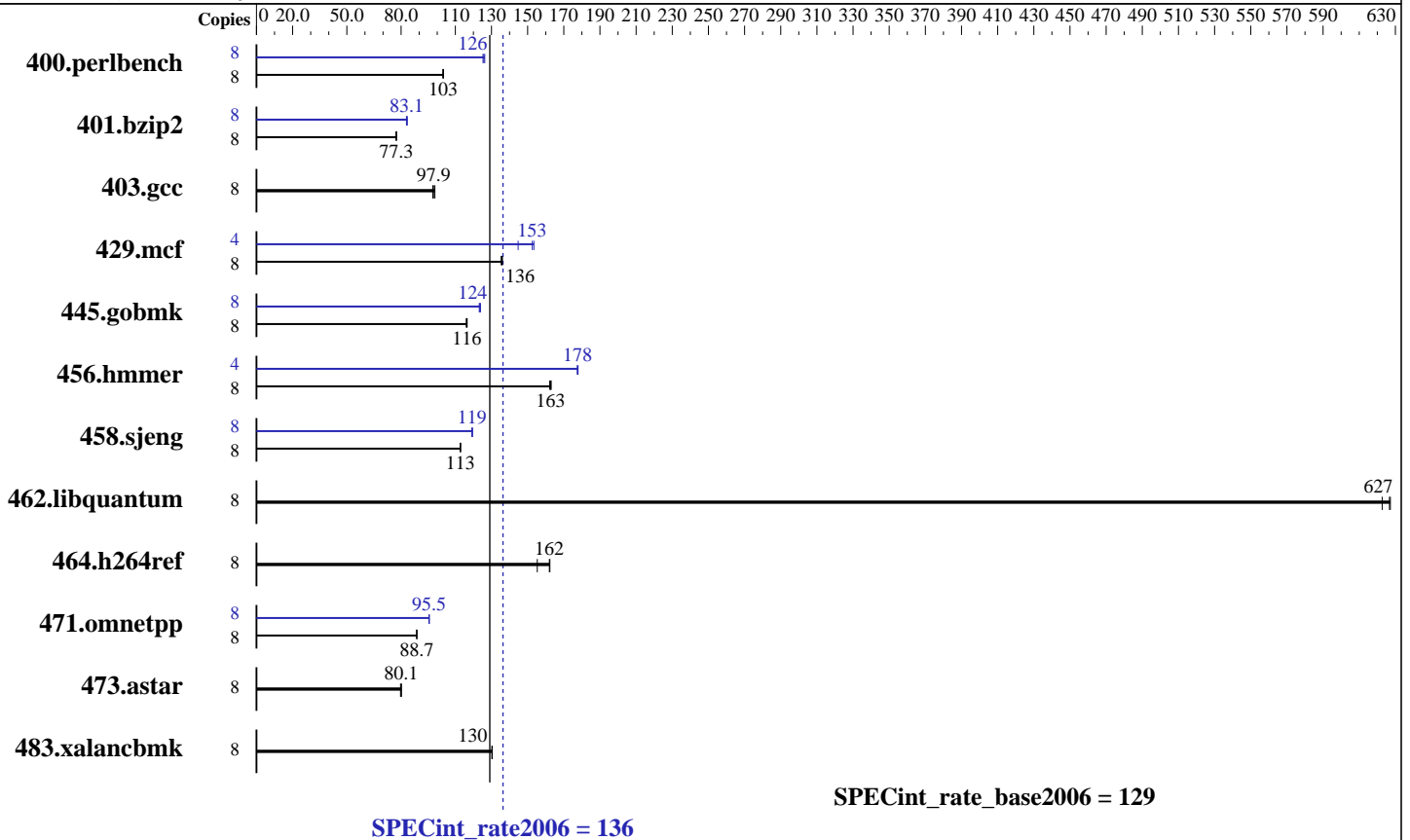
SPECint_rate_base2006 = 129

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

Test date: Jan-2011
Hardware Availability: Feb-2011
Software Availability: Jan-2011

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	**757**	**103**	755	103	758	103		8	619	126	**621**	**126**	624	125
401.bzip2	8	997	77.4	**998**	**77.3**	999	77.2		8	**929**	**83.1**	930	83.0	925	83.4
403.gcc	8	**658**	**97.9**	660	97.5	653	98.7		8	**658**	**97.9**	660	97.5	653	98.7
429.mcf	8	539	135	**537**	**136**	536	136		4	252	145	238	153	**239**	**153**
445.gobmk	8	720	116	723	116	**721**	**116**		8	677	124	**679**	**124**	681	123
456.hmmer	8	458	163	**459**	**163**	460	162		4	210	178	**210**	**178**	210	178
458.sjeng	8	857	113	**858**	**113**	858	113		8	**812**	**119**	812	119	810	120
462.libquantum	8	266	623	**264**	**627**	264	627		8	266	623	**264**	**627**	264	627
464.h264ref	8	1140	155	1091	162	**1093**	**162**		8	1140	155	1091	162	**1093**	**162**
471.omnetpp	8	564	88.7	**564**	**88.7**	564	88.6		8	523	95.5	**524**	**95.5**	524	95.5
473.astar	8	701	80.1	705	79.7	**701**	**80.1**		8	701	80.1	705	79.7	**701**	**80.1**
483.xalancbmk	8	424	130	**424**	**130**	423	130		8	424	130	**424**	**130**	423	130

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
     Large pages were not enabled for this run

Platform Notes

     BIOS configuration:
     Data Reuse Optimization = Disable

General Notes

     This result was measured on the PRIMERGY RX300 S6. The PRIMERGY TX300 S6
     and the PRIMERGY RX300 S6 are electronically equivalent.

     For information about Fujitsu please visit: http://www.fujitsu.com

Base Compiler Invocation

C benchmarks:
     icc -m32

Continued on next page

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY TX300 S6, Intel Xeon X5647, 2.93 GHz

SPECint_rate2006 =   136

SPECint_rate_base2006 = 129

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

Test date: Jan-2011
Hardware Availability: Feb-2011
Software Availability: Jan-2011

Base Compiler Invocation (Continued)

C++ benchmarks:
    icpc -m32

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 -opt-prefetch
    -B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT

C++ benchmarks:
    -xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
    -L/smartheap -lsmartheap
    -B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT

Base Other Flags

C benchmarks:

        403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
    icc -m32

    400.perlbench: icc -m64

    401.bzip2: icc -m64

    456.hmmer: icc -m64

    458.sjeng: icc -m64

C++ benchmarks:
    icpc -m32

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY TX300 S6, Intel Xeon X5647, 2.93 GHz

SPECint_rate2006 =   136

SPECint_rate_base2006 = 129

CPU2006 license: 19	**Test date:** Jan-2011
Test sponsor: Fujitsu	**Hardware Availability:** Feb-2011
Tested by: Fujitsu	**Software Availability:** Jan-2011

Peak Portability Flags

```
  400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
      401.bzip2: -DSPEC_CPU_LP64
     456.hmmer: -DSPEC_CPU_LP64
      458.sjeng: -DSPEC_CPU_LP64
 462.libquantum: -DSPEC_CPU_LINUX
 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) -prof-use(pass 2)
                 -B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

      401.bzip2: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
                 -O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
                 -opt-prefetch -auto-ilp32 -ansi-alias
                 -B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

       403.gcc: basepeak = yes

       429.mcf: -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 -auto-ilp32

     445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2)
                -ansi-alias -auto-ilp32

     456.hmmer: -xSSE4.2 -ipo -O3 -no-prec-div -unroll2 -auto-ilp32
                -B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

      458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
                 -O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
                 -unroll4 -auto-ilp32
                 -B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

 462.libquantum: basepeak = yes

    464.h264ref: basepeak = yes
```

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/smartheap -lsmartheap
```

SPEC CINT2006 Result

Fujitsu

PRIMERGY TX300 S6, Intel Xeon X5647, 2.93 GHz

SPECint_rate2006 =   136

SPECint_rate_base2006 = 129

CPU2006 license: 19		**Test date:**	Jan-2011
Test sponsor:	Fujitsu	**Hardware Availability:**	Feb-2011
Tested by:	Fujitsu	**Software Availability:**	Jan-2011

Peak Optimization Flags (Continued)

473.astar: basepeak = yes

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-icl2.0-linux64-revA.20110222.00.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-icl2.0-linux64-revA.20110222.00.xml

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 17:03:52 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 21 February 2011.