SPEC® CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY RX100 S7p, Intel Xeon E3-1220 v2, 3.10 GHz

SPECint®2006 = 51.7

SPECint_base2006 = 48.6

CPU2006 license: 19	**Test date:** May-2012
Test sponsor: Fujitsu	**Hardware Availability:** May-2012
Tested by: Fujitsu	**Software Availability:** Feb-2012

Results graph, scale 0 to 950:

- **400.perlbench**: 38.7 / 31.6
- **401.bzip2**: 25.3 / 24.7
- **403.gcc**: 34.7 / 34.2
- **429.mcf**: 71.1
- **445.gobmk**: 27.3 / 25.7
- **456.hmmer**: 61.4 / 60.3
- **458.sjeng**: 29.1 / 29.1
- **462.libquantum**: 940 / 932
- **464.h264ref**: 57.7 / 49.6
- **471.omnetpp**: 31.6 / 26.7
- **473.astar**: 31.2
- **483.xalancbmk**: 57.3 / 52.9

SPECint_base2006 = 48.6
SPECint2006 = 51.7

Hardware

CPU Name:	Intel Xeon E3-1220 v2
CPU Characteristics:	Intel Turbo Boost Technology up to 3.5 GHz
CPU MHz:	3100
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip
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:	8 MB I+D on chip per chip
Other Cache:	None
Memory:	16 GB (2 x 8 GB 2Rx8 PC3-12800E-11, ECC)
Disk Subsystem:	1 x SATA, 500 GB, 7200 RPM
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux Server release 6.2 (Santiago) 2.6.32-220.el6.x86_64
Compiler:	C/C++: Version 12.1.0.293 of Intel C++ Studio XE for Linux
Auto Parallel:	Yes
File System:	ext4
System State:	Run level 3 (multi-user)
Base Pointers:	32/64-bit
Peak Pointers:	32/64-bit
Other Software:	Microquill SmartHeap V10.0

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY RX100 S7p, Intel Xeon E3-1220 v2, 3.10 GHz

SPECint2006 =   51.7
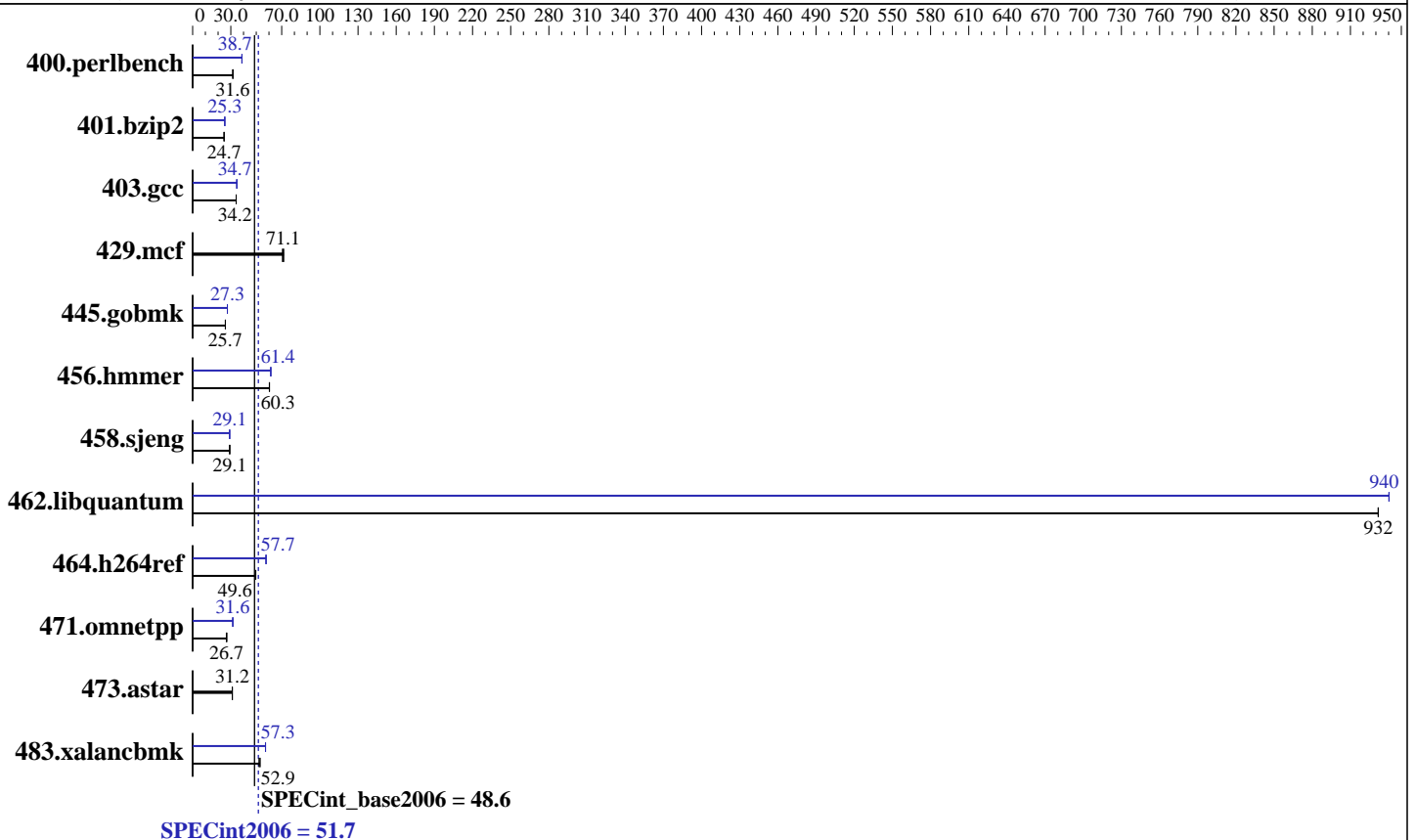
SPECint_base2006 =   48.6

CPU2006 license: 19

Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: May-2012

Hardware Availability: May-2012

Software Availability: Feb-2012

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	309	31.6	308	31.7	**309**	**31.6**	**252**	**38.7**	252	38.7	252	38.8
401.bzip2	390	24.7	390	24.7	**390**	**24.7**	382	25.3	**382**	**25.3**	382	25.3
403.gcc	235	34.2	**235**	**34.2**	235	34.3	232	34.8	**232**	**34.7**	232	34.7
429.mcf	127	71.6	**128**	**71.1**	129	70.6	127	71.6	**128**	**71.1**	129	70.6
445.gobmk	**408**	**25.7**	408	25.7	408	25.7	**384**	**27.3**	384	27.3	384	27.3
456.hmmer	**155**	**60.3**	154	60.4	155	60.3	152	61.5	152	61.4	**152**	**61.4**
458.sjeng	415	29.1	415	29.2	**415**	**29.1**	416	29.1	**416**	**29.1**	416	29.1
462.libquantum	**22.2**	**932**	22.2	932	22.2	932	**22.0**	**940**	22.0	940	22.0	940
464.h264ref	446	49.6	447	49.5	**446**	**49.6**	383	57.7	**384**	**57.7**	384	57.7
471.omnetpp	236	26.5	232	26.9	**234**	**26.7**	198	31.6	**198**	**31.6**	198	31.5
473.astar	**225**	**31.2**	225	31.2	225	31.1	**225**	**31.2**	225	31.2	225	31.1
483.xalancbmk	132	52.1	130	53.0	**131**	**52.9**	**120**	**57.3**	120	57.3	121	57.2

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

Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"

Platform Notes

    BIOS configuration:
    Intel HT Technology = Disable

General Notes

    Environment variables set by runspec before the start of the run:
    KMP_AFFINITY = "granularity=fine,scatter"
    LD_LIBRARY_PATH = "/SPECcpu2006/libs/32:/SPECcpu2006/libs/64"
    OMP_NUM_THREADS = "4"

     Binaries compiled on a system with 1x E3-1270V2 CPU + 32 GB
     memory using RHEL6.2
     Transparent Huge Pages enabled with:
     echo always > /sys/kernel/mm/redhat_transparent_hugepage/enabled
     For information about Fujitsu please visit: http://www.fujitsu.com

Base Compiler Invocation

C benchmarks:
      icc -m64

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY RX100 S7p, Intel Xeon E3-1220 v2, 3.10 GHz

SPECint2006 = 51.7

SPECint_base2006 = 48.6

CPU2006 license: 19		**Test date:**	May-2012
Test sponsor: Fujitsu		**Hardware Availability:**	May-2012
Tested by: Fujitsu		**Software Availability:**	Feb-2012

Base Compiler Invocation (Continued)

C++ benchmarks:
    icpc -m64

Base Portability Flags

        400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
           401.bzip2: -DSPEC_CPU_LP64
             403.gcc: -DSPEC_CPU_LP64
             429.mcf: -DSPEC_CPU_LP64
          445.gobmk: -DSPEC_CPU_LP64
          456.hmmer: -DSPEC_CPU_LP64
           458.sjeng: -DSPEC_CPU_LP64
      462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
          464.h264ref: -DSPEC_CPU_LP64
         471.omnetpp: -DSPEC_CPU_LP64
            473.astar: -DSPEC_CPU_LP64
       483.xalancbmk: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
    -xSSE4.2 -ipo -O3 -no-prec-div -parallel -opt-prefetch -auto-p32

C++ benchmarks:
    -xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -auto-p32
    -Wl,-z,muldefs -L/opt/SmartHeap/lib64 -lsmartheap64

Base Other Flags

C benchmarks:

        403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
    icc -m64

    400.perlbench: icc -m32

      445.gobmk: icc -m32

Continued on next page

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY RX100 S7p, Intel Xeon E3-1220 v2, 3.10 GHz

SPECint2006 =   51.7

SPECint_base2006 =   48.6

CPU2006 license: 19		**Test date:**	May-2012
Test sponsor: Fujitsu		**Hardware Availability:**	May-2012
Tested by: Fujitsu		**Software Availability:**	Feb-2012

Peak Compiler Invocation (Continued)

        464.h264ref: `icc -m32`

    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`
        403.gcc: `-DSPEC_CPU_LP64`
        429.mcf: `-DSPEC_CPU_LP64`
        456.hmmer: `-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) `-prof-use`(pass 2)
                `-opt-prefetch -ansi-alias`

        401.bzip2: `-xSSE4.2`(pass 2) `-prof-gen`(pass 1) `-ipo`(pass 2)
                `-O3`(pass 2) `-no-prec-div -prof-use`(pass 2) `-auto-ilp32`
                `-opt-prefetch -ansi-alias`

        403.gcc: `-xAVX -ipo -O3 -no-prec-div -inline-calloc`
                `-opt-malloc-options=3 -auto-ilp32`

        429.mcf: basepeak = yes

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

        456.hmmer: `-xSSE4.2 -ipo -O3 -no-prec-div -unroll2 -auto-ilp32`
                `-ansi-alias`

        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`

Fujitsu

PRIMERGY RX100 S7p, Intel Xeon E3-1220 v2, 3.10 GHz

SPECint2006 =   51.7

SPECint_base2006 =   48.6

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

Test date: May-2012
Hardware Availability: May-2012
Software Availability: Feb-2012

Peak Optimization Flags (Continued)

462.libquantum: `-xAVX -ipo -O3 -no-prec-div -parallel -opt-prefetch -auto-p32`

464.h264ref: `-xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2) -no-prec-div(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) -opt-ra-region-strategy=block          -ansi-alias -Wl,-z,muldefs -L/opt/SmartHeap/lib -lsmartheap`

473.astar: `basepeak = yes`

483.xalancbmk: `-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -ansi-alias -Wl,-z,muldefs -L/opt/SmartHeap/lib -lsmartheap`

Peak Other Flags

C benchmarks:

403.gcc: `-Dalloca=_alloca`

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.html
http://www.spec.org/cpu2006/flags/Fujitsu-Platform.20120320.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.xml
http://www.spec.org/cpu2006/flags/Fujitsu-Platform.20120320.xml

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

Tested with SPEC CPU2006 v1.2.
Report generated on Thu Jul 24 05:34:19 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 5 June 2012.