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

Fujitsu

PRIMERGY TX100 S3, Intel Pentium G620, 2.60 GHz

$SPECint^®\_rate2006 =$ 55.3

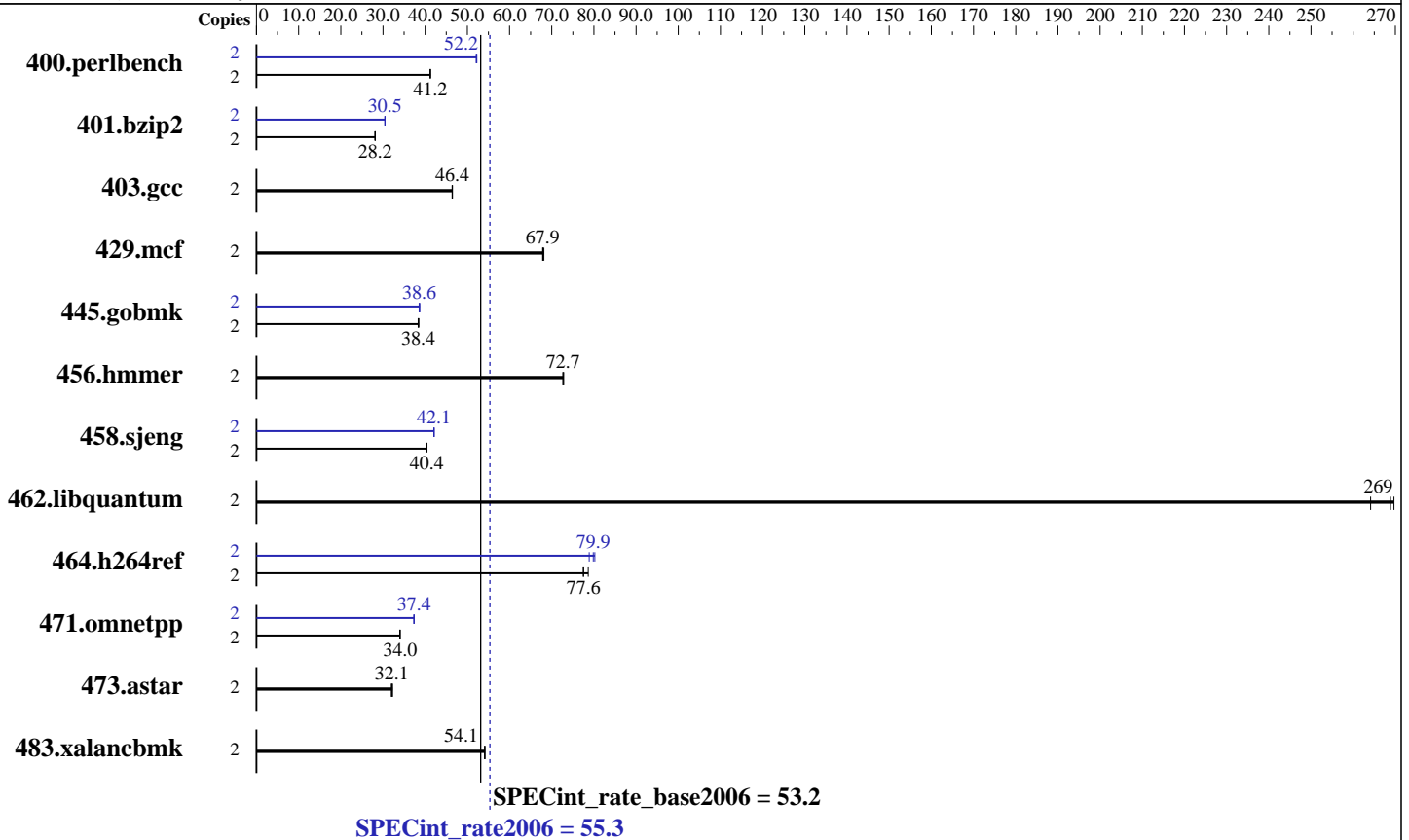$SPECint\_rate\_base2006 =$ 53.2

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

Test date: Jul-2011
Hardware Availability: Sep-2011
Software Availability: Jan-2011

Benchmark	Copies	Result (base)	Result (peak)
400.perlbench	2	41.2	52.2
401.bzip2	2	28.2	30.5
403.gcc	2	46.4	
429.mcf	2	67.9	
445.gobmk	2	38.4	38.6
456.hmmer	2	72.7	
458.sjeng	2	40.4	42.1
462.libquantum	2	269	
464.h264ref	2	77.6	79.9
471.omnetpp	2	34.0	37.4
473.astar	2	32.1	
483.xalancbmk	2	54.1	

SPECint_rate_base2006 = 53.2
SPECint_rate2006 = 55.3

Hardware

CPU Name: Intel Pentium G620
CPU Characteristics:
CPU MHz: 2600
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: 256 KB I+D on chip per core
L3 Cache: 3 MB I+D on chip per chip
Other Cache: None
Memory: 8 GB (2 x 4 GB 2Rx8 PC3-10600E-9, ECC, running at 1067 MHz and CL7)
Disk Subsystem: 1 x SATA, 500 GB, 7200 RPM
Other Hardware: None

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

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY TX100 S3, Intel Pentium G620, 2.60 GHz

SPECint_rate2006 =   55.3

SPECint_rate_base2006 = 53.2

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

Test date: Jul-2011
Hardware Availability: Sep-2011
Software Availability: Jan-2011

Results Table

Benchmark	Base Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Peak Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	475	41.2	473	41.3	**474**	**41.2**	2	375	52.1	374	52.2	**374**	**52.2**
401.bzip2	2	685	28.2	**685**	**28.2**	688	28.0	2	634	30.4	**634**	**30.5**	633	30.5
403.gcc	2	347	46.5	**347**	**46.4**	347	46.4	2	347	46.5	**347**	**46.4**	347	46.4
429.mcf	2	268	68.1	269	67.9	**269**	**67.9**	2	268	68.1	269	67.9	**269**	**67.9**
445.gobmk	2	547	38.3	**546**	**38.4**	545	38.5	2	542	38.7	**543**	**38.6**	544	38.6
456.hmmer	2	256	72.8	**257**	**72.7**	257	72.7	2	256	72.8	**257**	**72.7**	257	72.7
458.sjeng	2	**599**	**40.4**	600	40.3	599	40.4	2	575	42.1	575	42.1	**575**	**42.1**
462.libquantum	2	154	270	157	264	**154**	**269**	2	154	270	157	264	**154**	**269**
464.h264ref	2	571	77.5	563	78.7	**571**	**77.6**	2	552	80.2	561	78.9	**554**	**79.9**
471.omnetpp	2	367	34.1	368	34.0	**367**	**34.0**	2	335	37.4	335	37.3	**335**	**37.4**
473.astar	2	**437**	**32.1**	439	32.0	435	32.3	2	**437**	**32.1**	439	32.0	435	32.3
483.xalancbmk	2	**255**	**54.1**	255	54.2	255	54.1	2	**255**	**54.1**	255	54.2	255	54.1

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
```

General Notes

```
    For information about Fujitsu please visit: http://www.fujitsu.com
    Binaries were compiled on RHEL5.5
```

Base Compiler Invocation

C benchmarks:
```
     icc  -m32
```

C++ benchmarks:
```
     icpc -m32
```

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY TX100 S3, Intel Pentium G620, 2.60 GHz

SPECint_rate2006 =   55.3

SPECint_rate_base2006 =   53.2

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

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`

458.sjeng: `icc -m64`

C++ benchmarks:
```
icpc -m32
```

Peak Portability Flags

```
400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX
```

Continued on next page

Fujitsu

PRIMERGY TX100 S3, Intel Pentium G620, 2.60 GHz

SPECint_rate2006 =   55.3

SPECint_rate_base2006 = 53.2

CPU2006 license: 19

Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Jul-2011

Hardware Availability: Sep-2011

Software Availability: Jan-2011

Peak Portability Flags (Continued)

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: basepeak = yes

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

456.hmmer: basepeak = yes

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: -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)
-ansi-alias -opt-ra-region-strategy=block -Wl,-z,muldefs
-L/smartheap -lsmartheap

473.astar: basepeak = yes

483.xalancbmk: basepeak = yes

SPEC CINT2006 Result

Fujitsu

PRIMERGY TX100 S3, Intel Pentium G620, 2.60 GHz

$SPECint\_rate2006 = \qquad 55.3$

$SPECint\_rate\_base2006 = \quad 53.2$

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

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-ic12.0-linux64-revB.20110316.html
http://www.spec.org/cpu2006/flags/Fujitsu-Platform.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.20110316.xml
http://www.spec.org/cpu2006/flags/Fujitsu-Platform.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 22:41:17 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 13 September 2011.