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

Fujitsu

PRIMERGY TX100 S3p, Intel Celeron G550, 2.60 GHz

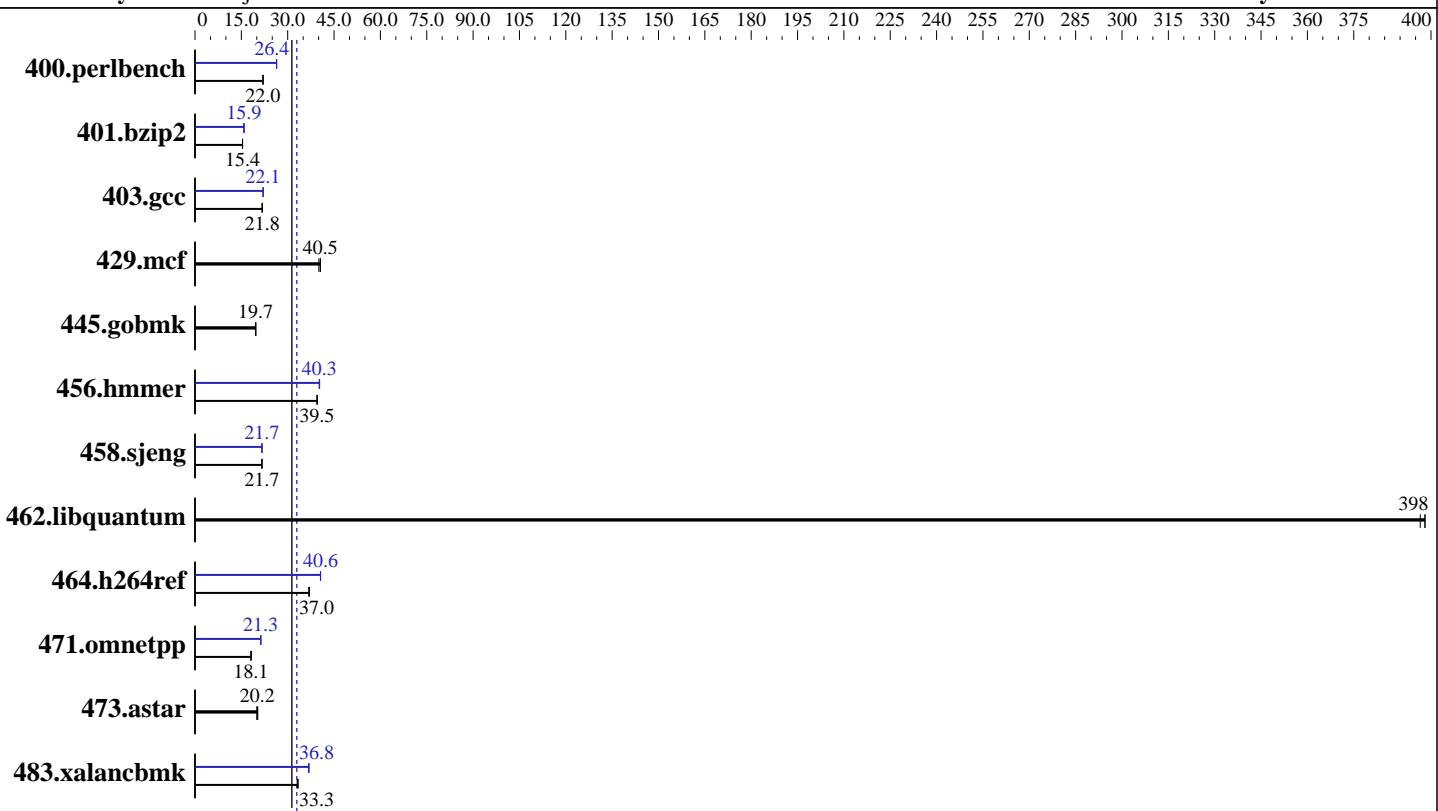$SPECint^{®}2006 =$ 33.0

$SPECint\_base2006 =$ 31.4

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

Graph scale: 0 15.0 30.0 45.0 60.0 75.0 90.0 105 120 135 150 165 180 195 210 225 240 255 270 285 300 315 330 345 360 375 400

- 400.perlbench: 26.4 / 22.0
- 401.bzip2: 15.9 / 15.4
- 403.gcc: 22.1 / 21.8
- 429.mcf: 40.5
- 445.gobmk: 19.7
- 456.hmmer: 40.3 / 39.5
- 458.sjeng: 21.7 / 21.7
- 462.libquantum: 398
- 464.h264ref: 40.6 / 37.0
- 471.omnetpp: 21.3 / 18.1
- 473.astar: 20.2
- 483.xalancbmk: 36.8 / 33.3

SPECint_base2006 = 31.4

SPECint2006 = 33.0

Hardware

CPU Name:	Intel Celeron G550
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:	2 MB I+D on chip per chip
Other Cache:	None
Memory:	16 GB (2 x 8 GB 2Rx8 PC3-12800E-11, ECC, running at 1067 MHz and CL7)
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 12.1.0.225 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 V9.01

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY TX100 S3p, Intel Celeron G550, 2.60 GHz

SPECint2006 =	33.0
SPECint_base2006 =	31.4

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

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

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	444	22.0	443	22.0	**444**	**22.0**	**370**	**26.4**	370	26.4	370	26.4
401.bzip2	627	15.4	628	15.4	**627**	**15.4**	608	15.9	610	15.8	**608**	**15.9**
403.gcc	369	21.8	**370**	**21.8**	370	21.7	365	22.1	366	22.0	**365**	**22.1**
429.mcf	225	40.6	**225**	**40.5**	228	40.1	225	40.6	**225**	**40.5**	228	40.1
445.gobmk	534	19.7	534	19.6	**534**	**19.7**	534	19.7	534	19.6	**534**	**19.7**
456.hmmer	236	39.6	**236**	**39.5**	236	39.5	232	40.2	231	40.3	**232**	**40.3**
458.sjeng	559	21.7	**558**	**21.7**	558	21.7	559	21.7	558	21.7	**558**	**21.7**
462.libquantum	52.3	397	**52.1**	**398**	52.1	398	52.3	397	**52.1**	**398**	52.1	398
464.h264ref	602	36.8	**597**	**37.0**	597	37.1	**545**	**40.6**	545	40.6	544	40.6
471.omnetpp	**345**	**18.1**	345	18.1	344	18.2	293	21.3	294	21.3	**294**	**21.3**
473.astar	346	20.3	351	20.0	**348**	**20.2**	346	20.3	351	20.0	**348**	**20.2**
483.xalancbmk	207	33.4	**207**	**33.3**	209	33.1	**188**	**36.8**	187	36.9	188	36.7

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"
Transparent Huge Pages enabled with:
echo always > /sys/kernel/mm/redhat_transparent_hugepage/enabled
```

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 = "2"

 Binaries compiled on a system with 1x Core i7-860 CPU + 8GB
 memory using RHEL5.5
 For information about Fujitsu please visit: http://www.fujitsu.com
```

Base Compiler Invocation

C benchmarks:
```
icc -m64
```

C++ benchmarks:
```
icpc -m64
```

Fujitsu

PRIMERGY TX100 S3p, Intel Celeron G550, 2.60 GHz

$SPECint2006 = $ 33.0

$SPECint_base2006 = $ 31.4

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

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/smartheap -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
```

```
    464.h264ref: icc -m32
```

C++ benchmarks (except as noted below):
```
    icpc -m32
```

```
    473.astar: icpc -m64
```

Fujitsu

PRIMERGY TX100 S3p, Intel Celeron G550, 2.60 GHz

SPECint2006 =   33.0

SPECint_base2006 =   31.4

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

Peak Portability Flags

```
    400.perlbench: -DSPEC_CPU_LINUX_IA32
        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
        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: -xSSE4.2 -ipo -O3 -no-prec-div -inline-calloc
               -opt-malloc-options=3 -auto-ilp32

          429.mcf: basepeak = yes

       445.gobmk: basepeak = yes

       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

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

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY TX100 S3p, Intel Celeron G550, 2.60 GHz

SPECint2006 =	33.0
SPECint_base2006 =	31.4

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

Peak Optimization Flags (Continued)

473.astar: `basepeak = yes`

483.xalancbmk: `-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -ansi-alias`
`-Wl,-z,muldefs -L/smartheap -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 12:59:23 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 11 October 2012.