# SPEC® CFP2006 Result
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## Fujitsu

PRIMERGY TX150 S7, Intel Core i3-550, 3.20 GHz

$SPECfp^®\_rate2006 =$ 52.8

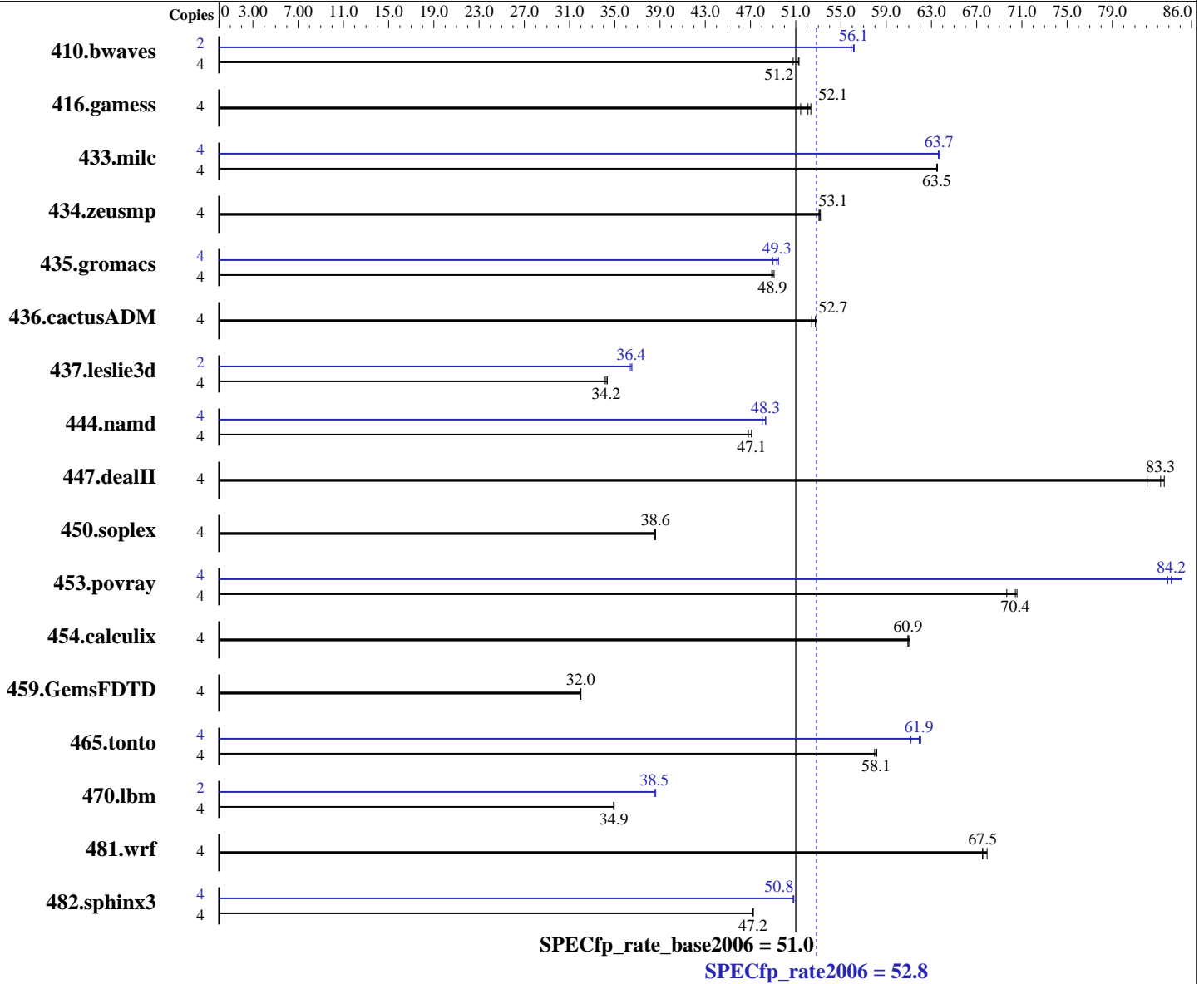$SPECfp\_rate\_base2006 =$ 51.0

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

**Test date:** Aug-2010  
**Hardware Availability:** Aug-2010  
**Software Availability:** Jan-2010  



Results chart. Copies axis scale: 0 3.00 7.00 11.0 15.0 19.0 23.0 27.0 31.0 35.0 39.0 43.0 47.0 51.0 55.0 59.0 63.0 67.0 71.0 75.0 79.0 86.0

| Benchmark | Copies | Value |
|---|---|---|
| 410.bwaves | 2 | 56.1 |
| 410.bwaves | 4 | 51.2 |
| 416.gamess | 4 | 52.1 |
| 433.milc | 4 | 63.7 |
| 433.milc | 4 | 63.5 |
| 434.zeusmp | 4 | 53.1 |
| 435.gromacs | 4 | 49.3 |
| 435.gromacs | 4 | 48.9 |
| 436.cactusADM | 4 | 52.7 |
| 437.leslie3d | 2 | 36.4 |
| 437.leslie3d | 4 | 34.2 |
| 444.namd | 4 | 48.3 |
| 444.namd | 4 | 47.1 |
| 447.dealII | 4 | 83.3 |
| 450.soplex | 4 | 38.6 |
| 453.povray | 4 | 84.2 |
| 453.povray | 4 | 70.4 |
| 454.calculix | 4 | 60.9 |
| 459.GemsFDTD | 4 | 32.0 |
| 465.tonto | 4 | 61.9 |
| 465.tonto | 4 | 58.1 |
| 470.lbm | 2 | 38.5 |
| 470.lbm | 4 | 34.9 |
| 481.wrf | 4 | 67.5 |
| 482.sphinx3 | 4 | 50.8 |
| 482.sphinx3 | 4 | 47.2 |

**SPECfp_rate_base2006 = 51.0**

**SPECfp_rate2006 = 52.8**

## Hardware

CPU Name: Intel Core i3-550  
CPU Characteristics:  
CPU MHz: 3200  
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  

**Continued on next page**

## Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64), Kernel 2.6.27.19-5-default  
Compiler: Intel C++ and Fortran Professional Compiler for IA32 and Intel 64, Version 11.1 Build 20091130 Package ID: l_cproc_p_11.1.064, l_cprof_p_11.1.064  
Auto Parallel: No  
File System: ext3  
System State: Run level 3 (multi-user)  

**Continued on next page**

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| | |
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| | |
|---|---|
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| | |
|---|---|
| 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 SAS, 300 GB, 10000 RPM |
| Other Hardware: | None |

| | |
|---|---|
| Base Pointers: | 64-bit |
| Peak Pointers: | 32/64-bit |
| Other Software: | None |

## Results Table

| Benchmark | Base Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Peak Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 410.bwaves | 4 | 1060 | 51.3 | **1061** | **51.2** | 1071 | 50.8 | 2 | 486 | 55.9 | 484 | 56.2 | **484** | **56.1** |
| 416.gamess | 4 | 1496 | 52.3 | 1523 | 51.4 | **1504** | **52.1** | 4 | 1496 | 52.3 | 1523 | 51.4 | **1504** | **52.1** |
| 433.milc | 4 | 578 | 63.5 | 578 | 63.5 | **578** | **63.5** | 4 | 577 | 63.6 | **577** | **63.7** | 576 | 63.7 |
| 434.zeusmp | 4 | 684 | 53.2 | **685** | **53.1** | 686 | 53.1 | 4 | 684 | 53.2 | **685** | **53.1** | 686 | 53.1 |
| 435.gromacs | 4 | 582 | 49.1 | 584 | 48.9 | **584** | **48.9** | 4 | 577 | 49.5 | **579** | **49.3** | 583 | 49.0 |
| 436.cactusADM | 4 | 904 | 52.9 | 912 | 52.4 | **906** | **52.7** | 4 | 904 | 52.9 | 912 | 52.4 | **906** | **52.7** |
| 437.leslie3d | 4 | 1095 | 34.3 | 1103 | 34.1 | **1098** | **34.2** | 2 | 518 | 36.3 | 515 | 36.5 | **516** | **36.4** |
| 444.namd | 4 | 685 | 46.8 | **681** | **47.1** | 681 | 47.1 | 4 | 668 | 48.0 | 664 | 48.3 | **664** | **48.3** |
| 447.dealII | 4 | 558 | 82.1 | **550** | **83.3** | 547 | 83.6 | 4 | 558 | 82.1 | **550** | **83.3** | 547 | 83.6 |
| 450.soplex | 4 | 866 | 38.5 | 864 | 38.6 | **864** | **38.6** | 4 | 866 | 38.5 | 864 | 38.6 | **864** | **38.6** |
| 453.povray | 4 | 305 | 69.7 | 302 | 70.6 | **302** | **70.4** | 4 | 254 | 83.9 | **253** | **84.2** | 250 | 85.2 |
| 454.calculix | 4 | 540 | 61.1 | 542 | 60.9 | **542** | **60.9** | 4 | 540 | 61.1 | 542 | 60.9 | **542** | **60.9** |
| 459.GemsFDTD | 4 | 1329 | 31.9 | **1327** | **32.0** | 1326 | 32.0 | 4 | 1329 | 31.9 | **1327** | **32.0** | 1326 | 32.0 |
| 465.tonto | 4 | **677** | **58.1** | 679 | 58.0 | 677 | 58.2 | 4 | 634 | 62.1 | 643 | 61.2 | **636** | **61.9** |
| 470.lbm | 4 | 1575 | 34.9 | 1573 | 34.9 | **1574** | **34.9** | 2 | 712 | 38.6 | **714** | **38.5** | 714 | 38.5 |
| 481.wrf | 4 | 658 | 67.9 | 662 | 67.5 | **662** | **67.5** | 4 | 658 | 67.9 | 662 | 67.5 | **662** | **67.5** |
| 482.sphinx3 | 4 | 1650 | 47.3 | **1651** | **47.2** | 1651 | 47.2 | 4 | **1535** | **50.8** | 1533 | 50.8 | 1535 | 50.8 |

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
    Binaries were compiled on SLES 10 with Binutils 2.18.50.0.7.20080502
```

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$SPECfp\_rate\_base2006 =$   51.0

| | | | |
|---|---|---|---|
| **CPU2006 license:** 19 | | **Test date:** | Aug-2010 |
| **Test sponsor:** | Fujitsu | **Hardware Availability:** | Aug-2010 |
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## Base Compiler Invocation

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

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

Fortran benchmarks:
```
ifort -m64
```

Benchmarks using both Fortran and C:
```
icc   -m64 ifort -m64
```

## Base Portability Flags

```
   410.bwaves: -DSPEC_CPU_LP64
   416.gamess: -DSPEC_CPU_LP64
     433.milc: -DSPEC_CPU_LP64
   434.zeusmp: -DSPEC_CPU_LP64
  435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
  437.leslie3d: -DSPEC_CPU_LP64
     444.namd: -DSPEC_CPU_LP64
    447.dealII: -DSPEC_CPU_LP64
    450.soplex: -DSPEC_CPU_LP64
    453.povray: -DSPEC_CPU_LP64
  454.calculix: -DSPEC_CPU_LP64 -nofor_main
 459.GemsFDTD: -DSPEC_CPU_LP64
    465.tonto: -DSPEC_CPU_LP64
     470.lbm: -DSPEC_CPU_LP64
      481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
   482.sphinx3: -DSPEC_CPU_LP64
```

## Base Optimization Flags

C benchmarks:
```
-xSSE4.2 -ipo -O3 -no-prec-div -static
```

C++ benchmarks:
```
-xSSE4.2 -ipo -O3 -no-prec-div -static
```

Fortran benchmarks:
```
-xSSE4.2 -ipo -O3 -no-prec-div -static
```

Benchmarks using both Fortran and C:
```
-xSSE4.2 -ipo -O3 -no-prec-div -static
```

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## Peak Compiler Invocation

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

```
    482.sphinx3: icc -m32
```

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

Fortran benchmarks:
```
ifort -m64
```

Benchmarks using both Fortran and C:
```
icc    -m64 ifort -m64
```

## Peak Portability Flags

```
     410.bwaves: -DSPEC_CPU_LP64
     416.gamess: -DSPEC_CPU_LP64
       433.milc: -DSPEC_CPU_LP64
     434.zeusmp: -DSPEC_CPU_LP64
    435.gromacs: -DSPEC_CPU_LP64 -nofor_main
  436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
    437.leslie3d: -DSPEC_CPU_LP64
      444.namd: -DSPEC_CPU_LP64
      447.dealII: -DSPEC_CPU_LP64
     450.soplex: -DSPEC_CPU_LP64
     453.povray: -DSPEC_CPU_LP64
    454.calculix: -DSPEC_CPU_LP64 -nofor_main
   459.GemsFDTD: -DSPEC_CPU_LP64
      465.tonto: -DSPEC_CPU_LP64
      470.lbm: -DSPEC_CPU_LP64
       481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
```

## Peak Optimization Flags

C benchmarks:

```
    433.milc: -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)
              -fno-alias -opt-prefetch
```

```
    470.lbm: -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-malloc-options=3 -ansi-alias -auto-ilp32
```

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SPECfp_rate_base2006 =   51.0

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**Test date:**                Aug-2010

**Hardware Availability:**   Aug-2010

**Software Availability:**   Jan-2010

## Peak Optimization Flags (Continued)

    482.sphinx3: `-xSSE4.2 -ipo -O3 -no-prec-div -static -unroll2`

C++ benchmarks:

      444.namd: `-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)`
               `-fno-alias -auto-ilp32`

     447.dealII: `basepeak = yes`

     450.soplex: `basepeak = yes`

     453.povray: `-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 -ansi-alias`

Fortran benchmarks:

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

     416.gamess: `basepeak = yes`

     434.zeusmp: `basepeak = yes`

     437.leslie3d: `-xSSE4.2 -ipo -O3 -no-prec-div -static`

   459.GemsFDTD: `basepeak = yes`

      465.tonto: `-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 -inline-calloc -opt-malloc-options=3`

Benchmarks using both Fortran and C:

     435.gromacs: `-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 -auto-ilp32`

   436.cactusADM: `basepeak = yes`

     454.calculix: `basepeak = yes`

        481.wrf: `basepeak = yes`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100708.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100708.xml`

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

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