# SPEC® CFP2006 Result
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## Apple, Inc.
## 3.0 GHz 8-Core Xserve

$SPECfp®\_rate2006 =$ Not Run
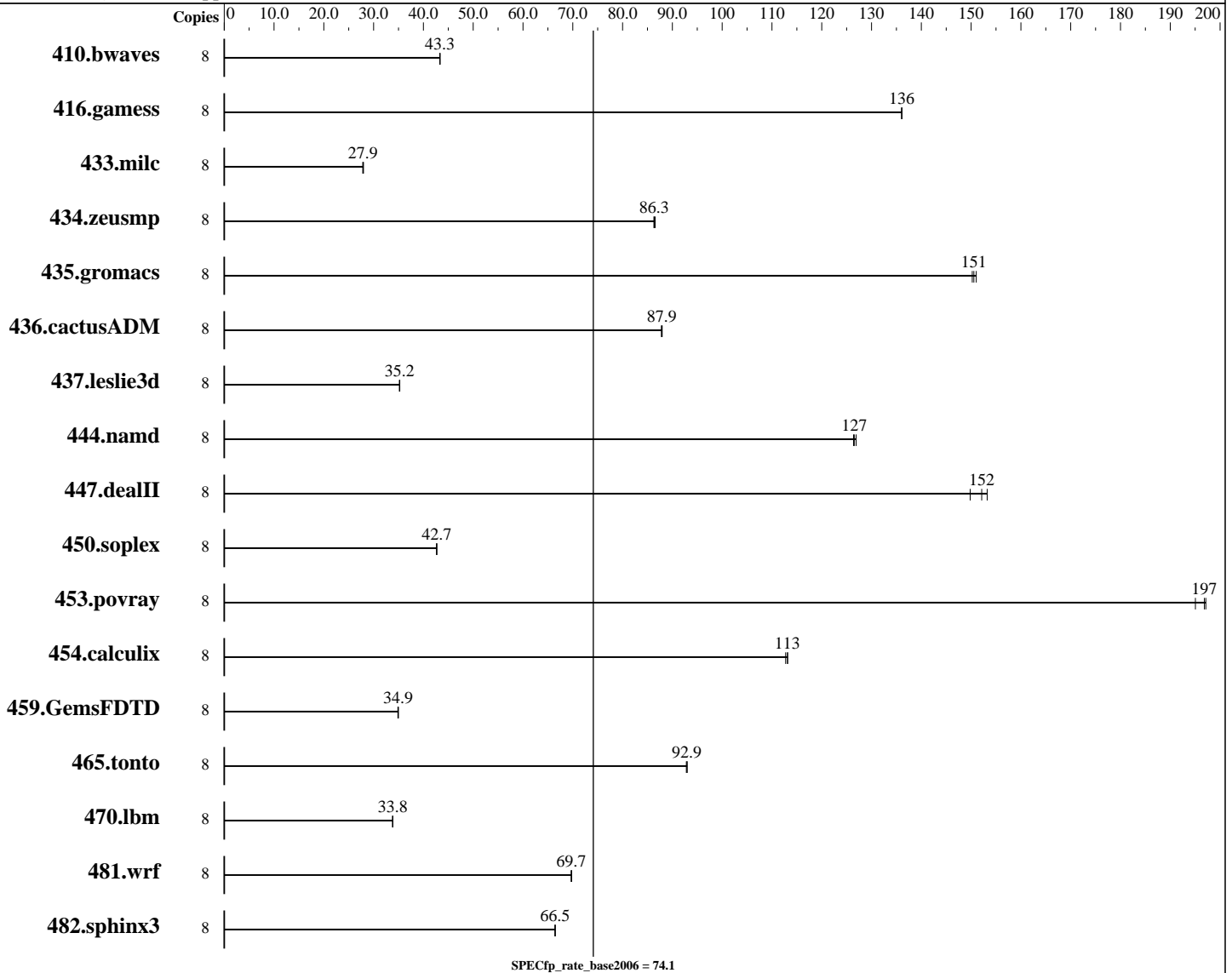
$SPECfp\_rate\_base2006 =$ 74.1

**CPU2006 license:** 77
**Test sponsor:** Apple, Inc.
**Tested by:** Apple, Inc.

**Test date:** Apr-2008
**Hardware Availability:** Jan-2008
**Software Availability:** Feb-2008

| Benchmark | Copies | Result |
|---|---|---|
| 410.bwaves | 8 | 43.3 |
| 416.gamess | 8 | 136 |
| 433.milc | 8 | 27.9 |
| 434.zeusmp | 8 | 86.3 |
| 435.gromacs | 8 | 151 |
| 436.cactusADM | 8 | 87.9 |
| 437.leslie3d | 8 | 35.2 |
| 444.namd | 8 | 127 |
| 447.dealII | 8 | 152 |
| 450.soplex | 8 | 42.7 |
| 453.povray | 8 | 197 |
| 454.calculix | 8 | 113 |
| 459.GemsFDTD | 8 | 34.9 |
| 465.tonto | 8 | 92.9 |
| 470.lbm | 8 | 33.8 |
| 481.wrf | 8 | 69.7 |
| 482.sphinx3 | 8 | 66.5 |

SPECfp_rate_base2006 = 74.1

## Hardware
CPU Name: Intel Xeon E5472
CPU Characteristics: 3.0 GHz, 2x6 MB L2, 1600 MHz bus
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
CPU(s) orderable: 2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 12 MB I+D on chip per chip, 6 MB shared / 2 cores
**Continued on next page**

## Software
Operating System: Mac OS X Server 10.5.2, Build 9C31
Compiler: Intel C++ Compiler for Mac OS X
Version 10.1 Build 20080212 (012)
Intel Fortran Compiler for Mac OS X
Version 10.1 Build 20080212 (012)
Auto Parallel: Yes
File System: Journaled HFS+
System State: Console mode
**Continued on next page**

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| | |
|---|---|
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 16 GB (8x2 GB DDR2-800 FBDIMM) |
| Disk Subsystem: | 1x80 GB Seagate SATA, 7200PM |
| Other Hardware: | None |

| | |
|---|---|
| Base Pointers: | 64-bit |
| Peak Pointers: | Not Applicable |
| Other Software: | None |

## Results Table

| Benchmark | Base Copies | Base Seconds | Base Ratio | Base Seconds | Base Ratio | Base Seconds | Base Ratio | Peak Copies | Peak Seconds | Peak Ratio | Peak Seconds | Peak Ratio | Peak Seconds | Peak Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 410.bwaves | 8 | 2509 | 43.3 | 2512 | 43.3 | **2509** | **43.3** | | | | | | | |
| 416.gamess | 8 | 1151 | 136 | **1151** | **136** | 1151 | 136 | | | | | | | |
| 433.milc | 8 | 2626 | 28.0 | **2636** | **27.9** | 2638 | 27.8 | | | | | | | |
| 434.zeusmp | 8 | 841 | 86.5 | **843** | **86.3** | 843 | 86.3 | | | | | | | |
| 435.gromacs | 8 | 380 | 150 | **379** | **151** | 378 | 151 | | | | | | | |
| 436.cactusADM | 8 | **1088** | **87.9** | 1089 | 87.8 | 1087 | 88.0 | | | | | | | |
| 437.leslie3d | 8 | 2133 | 35.3 | 2137 | 35.2 | **2135** | **35.2** | | | | | | | |
| 444.namd | 8 | 508 | 126 | **507** | **127** | 506 | 127 | | | | | | | |
| 447.dealII | 8 | 611 | 150 | **602** | **152** | 597 | 153 | | | | | | | |
| 450.soplex | 8 | **1564** | **42.7** | 1565 | 42.6 | 1563 | 42.7 | | | | | | | |
| 453.povray | 8 | 216 | 197 | 218 | 195 | **216** | **197** | | | | | | | |
| 454.calculix | 8 | 585 | 113 | **584** | **113** | 583 | 113 | | | | | | | |
| 459.GemsFDTD | 8 | 2434 | 34.9 | **2430** | **34.9** | 2427 | 35.0 | | | | | | | |
| 465.tonto | 8 | 847 | 93.0 | **847** | **92.9** | 848 | 92.8 | | | | | | | |
| 470.lbm | 8 | 3252 | 33.8 | **3248** | **33.8** | 3247 | 33.9 | | | | | | | |
| 481.wrf | 8 | 1282 | 69.7 | **1282** | **69.7** | 1281 | 69.8 | | | | | | | |
| 482.sphinx3 | 8 | 2348 | 66.4 | 2345 | 66.5 | **2346** | **66.5** | | | | | | | |

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

## Operating System Notes

```
Binaries compiled using Mac OS X 10.4.11, Build 8S2167
```

## Base Compiler Invocation

C benchmarks:
```
icc
```

C++ benchmarks:
```
icpc
```

Fortran benchmarks:
```
ifort
```

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# Base Compiler Invocation (Continued)

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

# 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_MACOSX -DSPEC_CPU_MACOSX_INTEL
                 -DSPEC_CPU_CASE_FLAG
      482.sphinx3: -DSPEC_CPU_LP64
```

# Base Optimization Flags

C benchmarks:
```
-static-intel -fast -lstmalloc
```

C++ benchmarks:
```
-static-intel -fast -lstmalloc
```

Fortran benchmarks:
```
-static-intel -fast -lstmalloc
```

Benchmarks using both Fortran and C:
```
-static-intel -fast -lstmalloc
```

# Base Other Flags

C benchmarks:
```
-Wl,-stack_addr,0xF10000000 -Wl,-stack_size,0x64000000
```

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# Base Other Flags (Continued)

C++ benchmarks:
```
-Wl,-stack_addr,0xF10000000 -Wl,-stack_size,0x64000000
```

Fortran benchmarks:
```
-Wl,-stack_addr,0xF10000000 -Wl,-stack_size,0x64000000
```

Benchmarks using both Fortran and C:
```
-Wl,-stack_addr,0xF10000000 -Wl,-stack_size,0x64000000
```

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/macosx-iccifort-v10.1-flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/macosx-iccifort-v10.1-flags.xml

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

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