SPEC® CFP2006 Result

Tyan
(Test Sponsor: Advanced Micro Devices)

Tyan Thunder n425QE (S4985E), AMD Opteron 2350

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = NA

CPU2006 license: 49
Test sponsor: Advanced Micro Devices
Tested by: Advanced Micro Devices

Test date: Sep-2007
Hardware Availability: Oct-2007
Software Availability: Jul-2007

SPEC has determined that this result was not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the submitter reported that the result would not meet the SPEC OSG requirements for continued availability.

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

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Hardware

CPU Name:	AMD Opteron 2350
CPU Characteristics:	
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	2,4 chips
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	512 KB I+D on chip per core
L3 Cache:	2 MB I+D on chip per chip
Other Cache:	None
Memory:	16 GB (8x2GB, DDR2-667 CL5 Reg ECC)
Disk Subsystem:	1x150GB SATA, 7200 RPM
Other Hardware:	None

Software

Operating System:	SuSE Linux Enterprise Server 10 SP1 64-bit kernel
Compiler:	gcc, g++, gfortran 4.1.2
Auto Parallel:	No
File System:	ext3
System State:	Multi-user, run level 3
Base Pointers:	64-bit
Peak Pointers:	Not Applicable
Other Software:	None

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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	NA	NA	NA	NA	NA	NA							
416.gamess	8	NA	NA	NA	NA	NA	NA							
433.milc	8	NA	NA	NA	NA	NA	NA							
434.zeusmp	8	NA	NA	NA	NA	NA	NA							
435.gromacs	8	NA	NA	NA	NA	NA	NA							
436.cactusADM	8	NA	NA	NA	NA	NA	NA							
437.leslie3d	8	NA	NA	NA	NA	NA	NA							
444.namd	8	NA	NA	NA	NA	NA	NA							
447.dealII	8	NA	NA	NA	NA	NA	NA							
450.soplex	8	NA	NA	NA	NA	NA	NA							
453.povray	8	NA	NA	NA	NA	NA	NA							
454.calculix	8	NA	NA	NA	NA	NA	NA							
459.GemsFDTD	8	NA	NA	NA	NA	NA	NA							
465.tonto	8	NA	NA	NA	NA	NA	NA							
470.lbm	8	NA	NA	NA	NA	NA	NA							
481.wrf	8	NA	NA	NA	NA	NA	NA							
482.sphinx3	8	NA	NA	NA	NA	NA	NA							

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

Operating System Notes

'numactl' was used to bind copies to the cores

General Notes

```
wrf needs wrf_data_header_size=8
to read the unformatted data input file correctly

The tested system can be assembled using a
PC Power & Cooling T1KWSR 1000W Turbo-Cool 12V power supply.
```

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Base Compiler Invocation

C benchmarks:
gcc

C++ benchmarks:
g++

Fortran benchmarks:
gfortran

Benchmarks using both Fortran and C:
gcc gfortran

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
436.cactusADM: -DSPEC_CPU_LP64
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
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:
-O3 -fno-inline-functions -funroll-loops

Continued on next page

SPEC has determined that this result was not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the submitter reported that the result would not meet the SPEC OSG requirements for continued availability.

Base Optimization Flags (Continued)

C++ benchmarks:
`-O3 -funroll-loops`

Fortran benchmarks:
`-O3 -fno-inline-functions -funroll-loops`

Benchmarks using both Fortran and C:
`-O3 -fno-inline-functions -funroll-loops`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.03.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.03.xml`

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

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