

SPEC[®] CINT2006 Result

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Tyan

SPECint[®]_rate2006 = Not Run

Tyan Thunder n425QE (S4985E), AMD Opteron 2350

SPECint_rate_base2006 = 64.3

CPU2006 license #:	49	Test sponsor:	Advanced Micro Devices	Test date:	Sep-2007	Hardware Availability:	Sep-2007	Software Availability:	Jul-2007																			
Copies	0	5.00	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100	105	110	115	120	125	130	140
400.perlbench	8															97.0												
401.bzip2	8															62.6												
403.gcc	8															55.1												
429.mcf	8															40.1												
445.gobmk	8															93.1												
456.hmmer	8															64.7												
458.sjeng	8															87.2												
462.libquantum	8															66.6												
464.h264ref	8															136												
471.omnetpp	8															45.1												
473.astar	8															51.6												
483.xalanbmk	8															33.7												

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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 Dual Rank)
 Disk Subsystem: 1x150GB SATA, 7200 RPM
 Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 10 SP1 64-bit kernel
 Compiler: gcc, g++ 4.1.2
 Auto Parallel: No
 File System: ext3
 System State: Multi-user, run level 3
 Base Pointers: 64-bit
 Peak Pointers: None
 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		
400.perlbench	8	805	97.1	806	97.0	813	96.2									
401.bzip2	8	1230	62.7	1230	62.6	1240	62.3									
403.gcc	8	1170	55.1	1170	55.1	1180	54.5									
429.mcf	8	1820	40.1	1820	40.1	1820	40.0									
445.gobmk	8	902	93.1	901	93.1	901	93.1									
456.hmmer	8	1150	64.7	1150	64.7	1150	64.8									
458.sjeng	8	1110	87.4	1110	87.2	1110	87.2									
462.libquantum	8	2490	66.6	2490	66.6	2490	66.6									
464.h264ref	8	1300	136	1310	136	1310	135									
471.omnetpp	8	1110	45.1	1110	45.0	1110	45.1									
473.astar	8	1090	51.6	1090	51.6	1090	51.6									
483.xalancbmk	8	1640	33.7	1640	33.7	1640	33.7									

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

General Notes

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

Base Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

g++

Base Portability Flags

C benchmarks (except as noted below):

-DSPEC_CPU_LP64

400.perlbench: -DSPEC_CPU_LINUX_X64 -DSPEC_CPU_LP64

403.gcc: -DSPEC_CPU_LP64

462.libquantum: -DSPEC_CPU_LINUX -DSPEC_CPU_LP64

C++ benchmarks:

471.omnetpp: -DSPEC_CPU_LP64

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Base Portability Flags (Continued)

473.astar: -DSPEC_CPU_LITTLE_ENDIAN -DSPEC_CPU_LP64

483.xalancbmk: -DSPEC_CPU_LINUX -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:

-O3 -funroll-loops -fno-inline-functions

C++ benchmarks:

-O3 -funroll-loops

Base Other Flags

C benchmarks:

No flags used

C++ benchmarks:

No flags used

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