SPEC® CINT2006 Result
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Tyan
(Test Sponsor: Advanced Micro Devices)

$SPECint^®\_rate2006 =$ Not Run

Tyan Thunder n4250QE (S4985) (AMD Opteron 2220 SE)

$SPECint\_rate\_base2006 =$ 40.2

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

Test date: Sep-2006
Hardware Availability: Oct-2006
Software Availability: Apr-2006

Benchmark	Copies	Result
400.perlbench	4	55.7
401.bzip2	4	36.3
403.gcc	4	33.6
429.mcf	4	24.5
445.gobmk	4	62.4
456.hmmer	4	42.3
458.sjeng	4	54.3
462.libquantum	4	46.8
464.h264ref	4	82.3
471.omnetpp	4	26.5
473.astar	4	31.0
483.xalancbmk	4	23.2

SPECint_rate_base2006 = 40.2

Hardware
CPU Name: AMD Opteron 2220 SE
CPU Characteristics:
CPU MHz: 2800
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
CPU(s) orderable: 1,2,4 chips
Primary Cache: 64 KB I + 64 KB D on chip per core
Secondary Cache: 1 MB I+D on chip per core
L3 Cache: None
Other Cache: None
Memory: 8 GB (8 x 1 GB DDR2-667 CL5 ECC Reg)
Disk Subsystem: 250GB SATA
Other Hardware: None

Software
Operating System: SUSE Linux 10.1 (for x86_64)
Compiler: SUSE gcc, g++ 4.1 (for x86_64)
Auto Parallel: No
File System: ext3
System State: runlevel 3
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other Software: None

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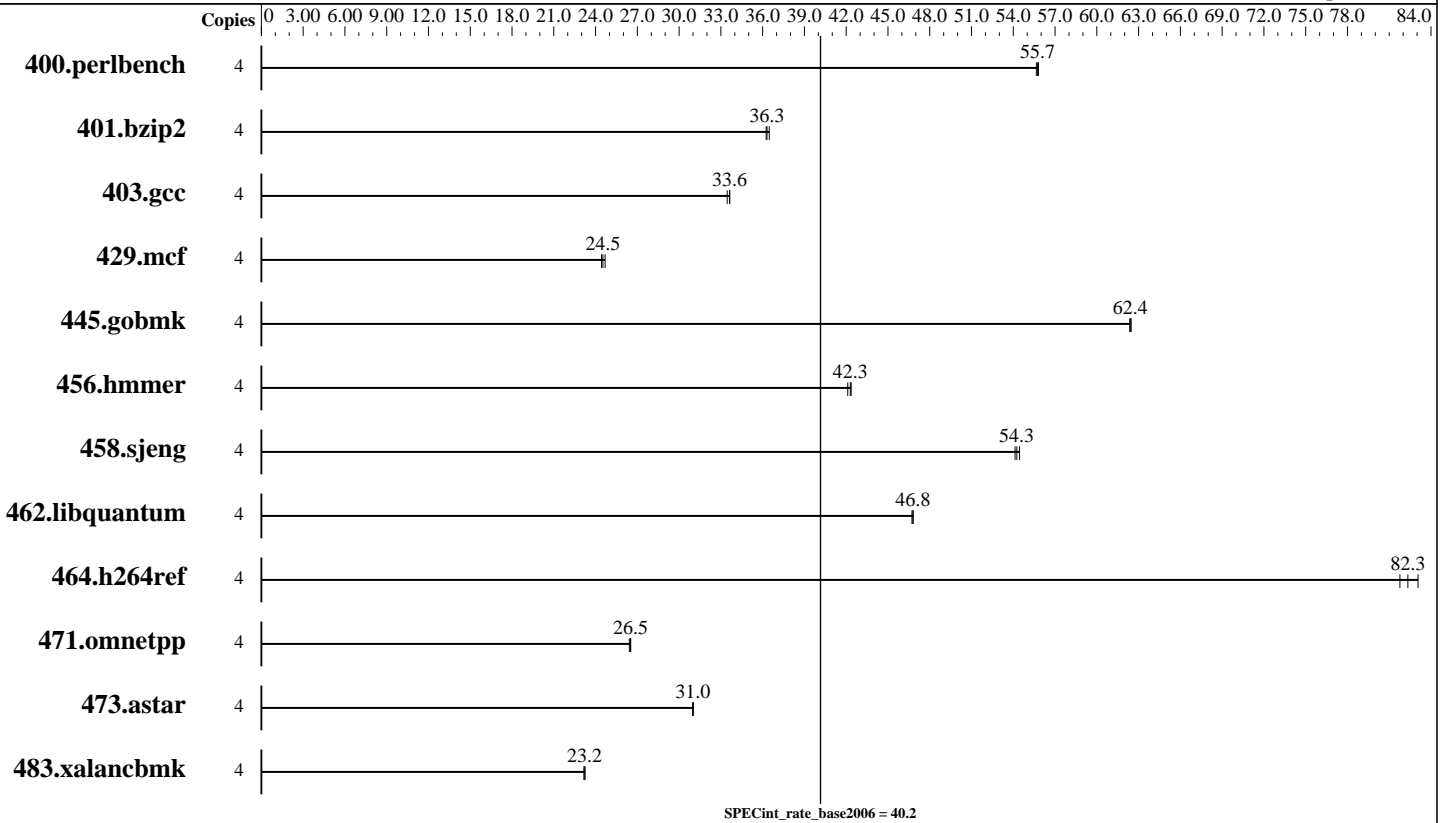
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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	702	55.7	700	55.8	**701**	**55.7**							
401.bzip2	4	1058	36.5	1065	36.3	**1063**	**36.3**							
403.gcc	4	**958**	**33.6**	962	33.5	957	33.6							
429.mcf	4	**1487**	**24.5**	1478	24.7	1493	24.4							
445.gobmk	4	672	62.5	**672**	**62.4**	673	62.4							
456.hmmer	4	**882**	**42.3**	881	42.4	886	42.1							
458.sjeng	4	**892**	**54.3**	894	54.1	889	54.4							
462.libquantum	4	1774	46.7	1771	46.8	**1771**	**46.8**							
464.h264ref	4	**1075**	**82.3**	1066	83.1	1083	81.8							
471.omnetpp	4	**943**	**26.5**	943	26.5	946	26.4							
473.astar	4	907	31.0	905	31.0	**906**	**31.0**							
483.xalancbmk	4	1188	23.2	**1188**	**23.2**	1192	23.2							

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

General Notes

```
Tested by Advanced Micro Devices
 The system can be assembled using a Zippy 700W EPS12V power supply and any SSI-MEB case
 All memory slots filled on all chips.
Other Configuration Notes
 Taskset utility used to bind process to cores
```

Base Compiler Invocation

C benchmarks:
        gcc

C++ benchmarks:
        g++

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
```

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CPU2006 license: 49		**Test date:**	Sep-2006
Test sponsor: Advanced Micro Devices		**Hardware Availability:** Oct-2006
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Base Portability Flags (Continued)

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

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

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.04.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.04.xml

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