



SPEC[®] CINT2006 Result

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Tyan

SPECint[®]2006 = --

Tyan Thunder K8E Tomcat (S2865) (AMD Opteron 146)

SPECint_base2006 = 9.02

CPU2006 license: 49

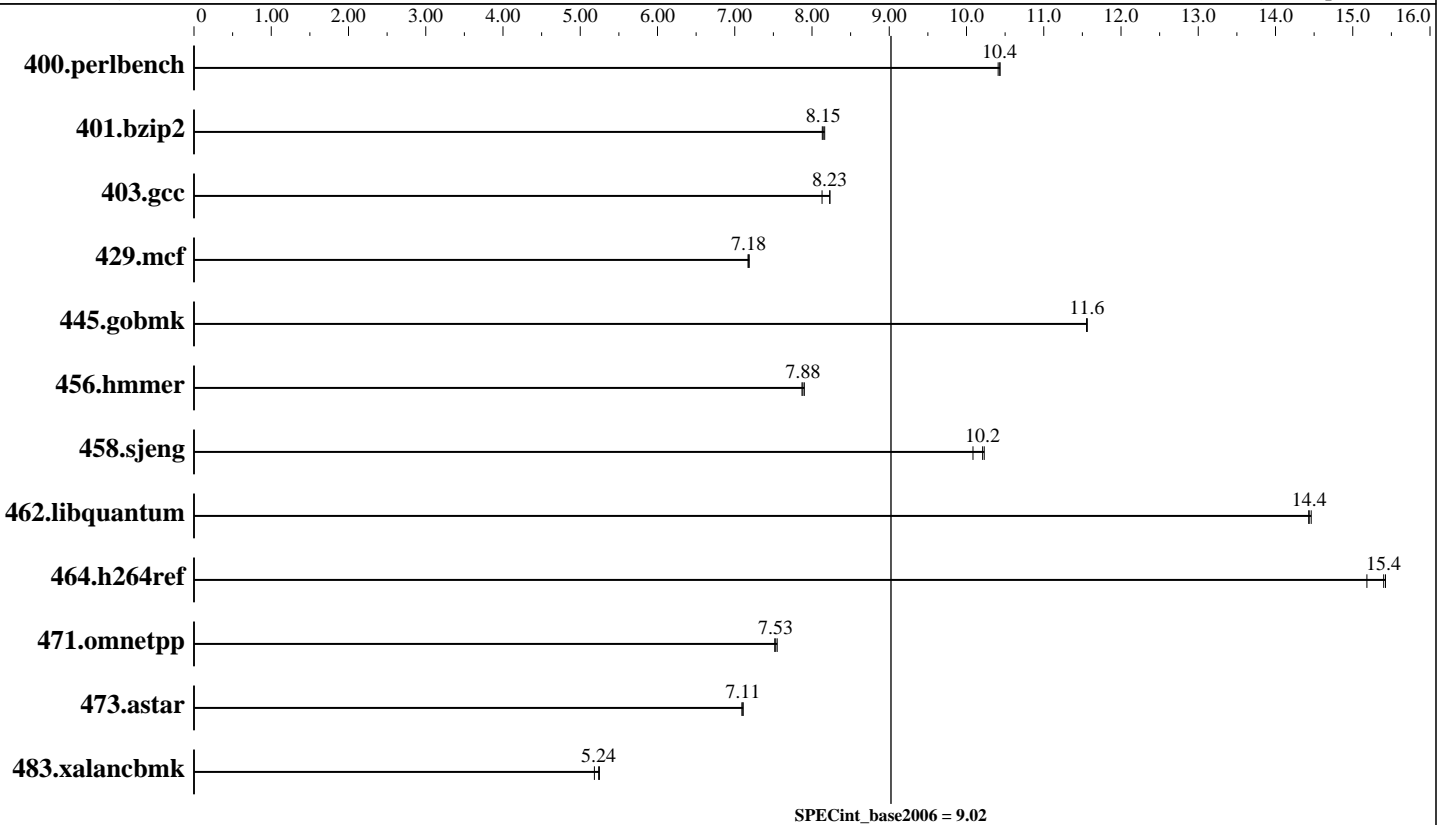
Test sponsor: Advanced Micro Devices

Tested by: Advanced Micro Devices

Test date: Apr-2006

Hardware Availability: Aug-2005

Software Availability: Apr-2006



Hardware

CPU Name: AMD Opteron 146
 CPU Characteristics:
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 64 KB I + 64 KB D on chip per chip
 Secondary Cache: 1 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 2 GB (2 x 1 GB DDR400 CL2)
 Disk Subsystem: 250GB SATA
 Other Hardware: None

Software

Operating System: SUSE Linux 10.1 (for AMD64)
 Compiler: gcc , g++ 4.1.0 (for AMD64)
 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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Results Table

| Benchmark | Base | | | | | | Peak | | | | | |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|---------|-------|---------|-------|---------|-------|
| | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 936 | 10.4 | <u>937</u> | <u>10.4</u> | 939 | 10.4 | | | | | | |
| 401.bzip2 | <u>1185</u> | <u>8.15</u> | 1182 | 8.16 | 1186 | 8.13 | | | | | | |
| 403.gcc | 990 | 8.13 | <u>978</u> | <u>8.23</u> | 978 | 8.23 | | | | | | |
| 429.mcf | 1272 | 7.17 | 1269 | 7.19 | <u>1270</u> | <u>7.18</u> | | | | | | |
| 445.gobmk | <u>907</u> | <u>11.6</u> | 907 | 11.6 | 908 | 11.6 | | | | | | |
| 456.hmmer | <u>1184</u> | <u>7.88</u> | 1181 | 7.90 | 1185 | 7.87 | | | | | | |
| 458.sjeng | <u>1185</u> | <u>10.2</u> | 1200 | 10.1 | 1183 | 10.2 | | | | | | |
| 462.libquantum | <u>1435</u> | <u>14.4</u> | 1433 | 14.5 | 1436 | 14.4 | | | | | | |
| 464.h264ref | 1435 | 15.4 | <u>1437</u> | <u>15.4</u> | 1458 | 15.2 | | | | | | |
| 471.omnetpp | 828 | 7.55 | <u>830</u> | <u>7.53</u> | 831 | 7.52 | | | | | | |
| 473.astar | <u>988</u> | <u>7.11</u> | 988 | 7.11 | 990 | 7.09 | | | | | | |
| 483.xalancbmk | <u>1317</u> | <u>5.24</u> | 1315 | 5.25 | 1331 | 5.18 | | | | | | |

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 an ATX power supply such as a Sparkle FSP350-60PN and a case such as a Chenbro RM125

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
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX

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Base Portability Flags (Continued)

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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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v91.
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