# SPEC® CINT2006 Result





Tyan
(Test Sponsor: Advanced Micro Devices)

Tyan Thunder n425QE (S4985E), AMD Opteron 2350

SPECint®_rate2006 = Not Run

SPECint_rate_base2006 = NA

| | | | |
|---|---|---|---|
| **CPU2006 license:** | 49 | **Test date:** | Sep-2007 |
| **Test sponsor:** | Advanced Micro Devices | **Hardware Availability:** | Oct-2007 |
| **Tested by:** | Advanced Micro Devices | **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 |
|---|---|
| **400.perlbench** | |
| **401.bzip2** | |
| **403.gcc** | |
| **429.mcf** | |
| **445.gobmk** | |
| **456.hmmer** | |
| **458.sjeng** | |
| **462.libquantum** | |
| **464.h264ref** | |
| **471.omnetpp** | |
| **473.astar** | |
| **483.xalancbmk** | |

## 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 |

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## 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: | Not Applicable |
| Other Software: | None |

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Memory: 16 GB (8x2GB, DDR2-667 CL5 Reg Dual Rank)
Disk Subsystem: 1x150GB SATA, 7200 RPM
Other Hardware: None

## Results Table

| | Base | | | | | | | Peak | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benchmark | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 8 | NA | NA | NA | NA | NA | NA | | | | | | | |
| 401.bzip2 | 8 | NA | NA | NA | NA | NA | NA | | | | | | | |
| 403.gcc | 8 | NA | NA | NA | NA | NA | NA | | | | | | | |
| 429.mcf | 8 | NA | NA | NA | NA | NA | NA | | | | | | | |
| 445.gobmk | 8 | NA | NA | NA | NA | NA | NA | | | | | | | |
| 456.hmmer | 8 | NA | NA | NA | NA | NA | NA | | | | | | | |
| 458.sjeng | 8 | NA | NA | NA | NA | NA | NA | | | | | | | |
| 462.libquantum | 8 | NA | NA | NA | NA | NA | NA | | | | | | | |
| 464.h264ref | 8 | NA | NA | NA | NA | NA | NA | | | | | | | |
| 471.omnetpp | 8 | NA | NA | NA | NA | NA | NA | | | | | | | |
| 473.astar | 8 | NA | NA | NA | NA | NA | NA | | | | | | | |
| 483.xalancbmk | 8 | NA | NA | NA | NA | NA | NA | | | | | | | |

Results appear in 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

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

# Base Compiler Invocation

C benchmarks:
```
gcc
```

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## Base Compiler Invocation (Continued)

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`
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.20090714.03.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`

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

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