# SPEC® CINT2006 Result

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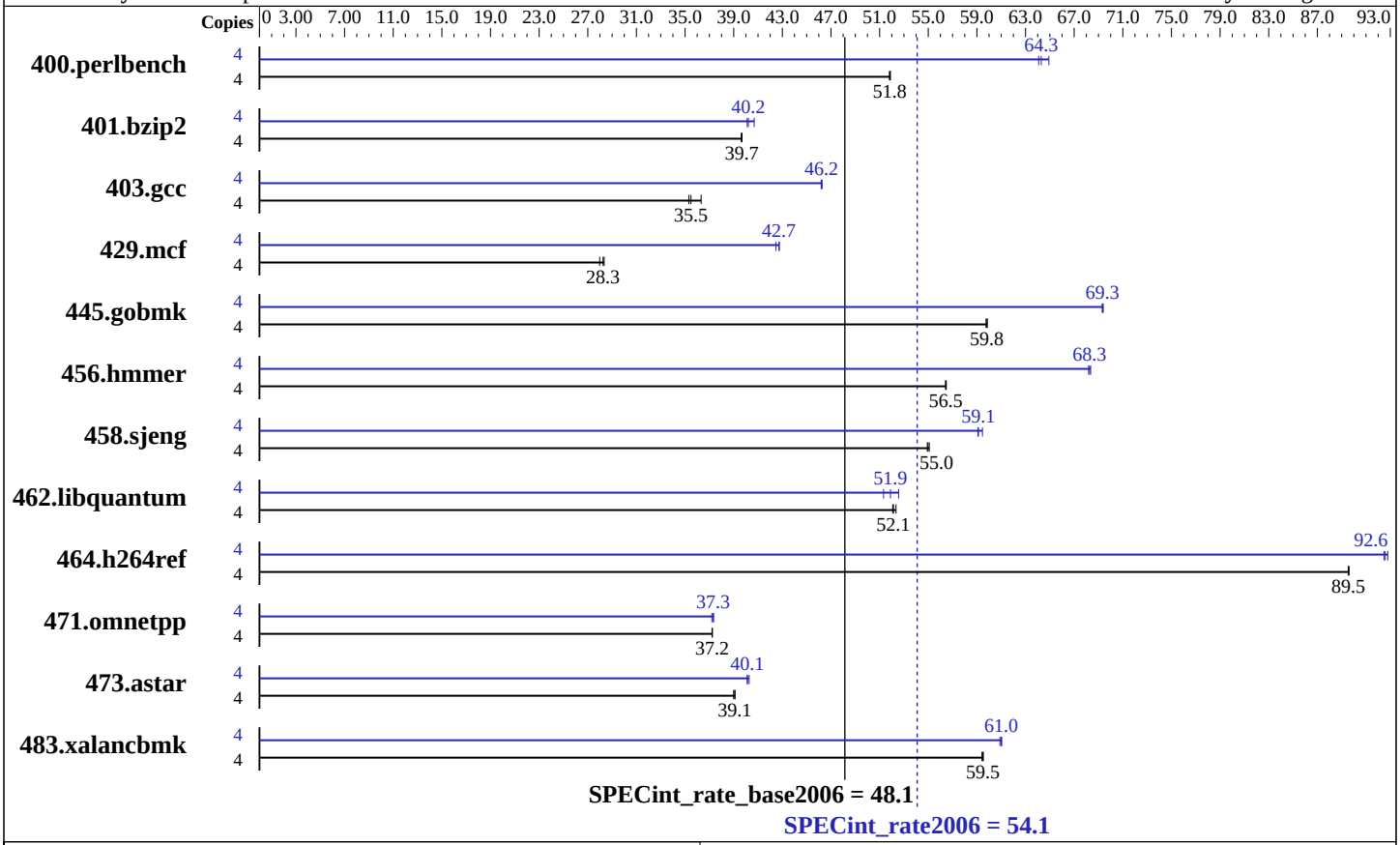
## Supermicro
## Motherboard H8DM3-2

**SPECint®_rate2006 = 54.1**

**SPECint_rate_base2006 = 48.1**

**CPU2006 license:** 1176
**Test sponsor:** Supermicro
**Tested by:** Supermicro

**Test date:** Mar-2007
**Hardware Availability:** Jan-2007
**Software Availability:** Aug-2006




### Hardware

| | |
|---|---|
| CPU Name: | AMD Opteron 2222 SE |
| CPU Characteristics: | |
| CPU MHz: | 3000 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 2 chips, 2 cores/chip |
| CPU(s) orderable: | 1,2 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 (8x1GB, DDR2-667 CL5 ECC Reg) |
| Disk Subsystem: | SATA, 400 GB |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | SuSE Linux Enterprise Server 9 SP3 64-bit kernel |
| Compiler: | QLogic PathScale Compiler Suite, Release 2.5 |
| Auto Parallel: | No |
| File System: | ReiserFS |
| System State: | Multi-user, run level 3 |
| Base Pointers: | 32/64-bit |
| Peak Pointers: | 32/64-bit |
| Other Software: | SmartHeap 8.0 32 bit Library for Linux |

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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 | 753 | 51.9 | **754** | **51.8** | 754 | 51.8 | 4 | 610 | 64.1 | **608** | **64.3** | 602 | 64.9 |
| 401.bzip2 | 4 | 974 | 39.6 | 973 | 39.7 | **973** | **39.7** | 4 | **960** | **40.2** | 962 | 40.1 | 949 | 40.7 |
| 403.gcc | 4 | **907** | **35.5** | 912 | 35.3 | 887 | 36.3 | 4 | **697** | **46.2** | 697 | 46.2 | 696 | 46.3 |
| 429.mcf | 4 | 1304 | 28.0 | 1287 | 28.3 | **1291** | **28.3** | 4 | 859 | 42.5 | 853 | 42.8 | **854** | **42.7** |
| 445.gobmk | 4 | 701 | 59.9 | **701** | **59.8** | 702 | 59.8 | 4 | **605** | **69.3** | 605 | 69.4 | 605 | 69.3 |
| 456.hmmer | 4 | 661 | 56.5 | **661** | **56.5** | 662 | 56.4 | 4 | 546 | 68.4 | **547** | **68.3** | 547 | 68.2 |
| 458.sjeng | 4 | **880** | **55.0** | 881 | 54.9 | 879 | 55.1 | 4 | **819** | **59.1** | 819 | 59.1 | 814 | 59.5 |
| 462.libquantum | 4 | 1591 | 52.1 | 1583 | 52.4 | **1590** | **52.1** | 4 | **1597** | **51.9** | 1615 | 51.3 | 1577 | 52.6 |
| 464.h264ref | 4 | 989 | 89.5 | **989** | **89.5** | 988 | 89.6 | 4 | 957 | 92.5 | **956** | **92.6** | 954 | 92.8 |
| 471.omnetpp | 4 | **672** | **37.2** | 671 | 37.2 | 672 | 37.2 | 4 | **670** | **37.3** | 669 | 37.3 | 672 | 37.2 |
| 473.astar | 4 | **718** | **39.1** | 718 | 39.1 | 720 | 39.0 | 4 | 700 | 40.1 | **700** | **40.1** | 697 | 40.3 |
| 483.xalancbmk | 4 | **464** | **59.5** | 465 | 59.4 | 464 | 59.5 | 4 | **452** | **61.0** | 452 | 61.0 | 453 | 60.9 |

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

## General Notes

```
taskset utility used to bind CPU(s) to processes
All memory slots filled on all chips
Tested systems can be used with CSE-825TQ-R700LPV case,
To ensure system stability, a 550W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required]
Product description located as of http://www.supermicro.com/Aplus/motherboard/Opteron2000/MCP55/H8DM3-2.cfm
```

## Base Compiler Invocation

C benchmarks:
`pathcc`

C++ benchmarks:
`pathCC`

## 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`

Continued on next page

## Base Portability Flags (Continued)

462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

## Base Optimization Flags

C benchmarks:
-Ofast

C++ benchmarks:
-Ofast -m32
-L/spec/mpaton/6v1.0/amd512K8.lib/microquill/lib -lsmartheap

## Base Other Flags

C benchmarks:
-IPA:max_jobs=2

C++ benchmarks:
-IPA:max_jobs=2

## Peak Compiler Invocation

C benchmarks:
pathcc

C++ benchmarks:
pathCC

## Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -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
483.xalancbmk: -DSPEC_CPU_LINUX

## Peak Optimization Flags

C benchmarks:

400.perlbench: `-fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast`

401.bzip2: `-O3 -LNO:ou_prod_max=10 -OPT:Ofast -OPT:alias=disjoint`

403.gcc: `-fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -m32 -O3 -OPT:Ofast`

429.mcf: `-m32 -O2 -ipa -L/spec/mpaton/6v1.0/amd512K8.lib/microquill/lib -lsmartheap`

445.gobmk: `-fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3 -OPT:alias=disjoint -LNO:simd=0 -LNO:minvariant=off -WOPT:retype_expr=on`

456.hmmer: `-O2 -OPT:alias=disjoint -WOPT:aggstr=0 -CG:cflow=0`

458.sjeng: `-fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3 -IPA:plimit=50000 -IPA:pu_reorder=2`

462.libquantum: `-O3 -ipa -CG:local_fwd_sched=on -IPA:space=1000`

464.h264ref: `-fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3 -IPA:plimit=20000 -OPT:alias=disjoint -LNO:prefetch=0`

C++ benchmarks:

471.omnetpp: `-Ofast -IPA:pu_reorder=2 -CG:gcm=off -m32 -L/spec/mpaton/6v1.0/amd512K8.lib/microquill/lib -lsmartheap`

473.astar: `-fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast -m32 -L/spec/mpaton/6v1.0/amd512K8.lib/microquill/lib -lsmartheap`

483.xalancbmk: `-Ofast -m32 -OPT:unroll_times_max=8 -L/spec/mpaton/6v1.0/amd512K8.lib/microquill/lib -lsmartheap`

## Peak Other Flags

C benchmarks:
`-IPA:max_jobs=2`

C++ benchmarks:
`-IPA:max_jobs=2`

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.25.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.25.xml


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

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