SPEC® CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Supermicro Motherboard H8DM3-2

$SPECint®\_rate2006 =$ 54.1
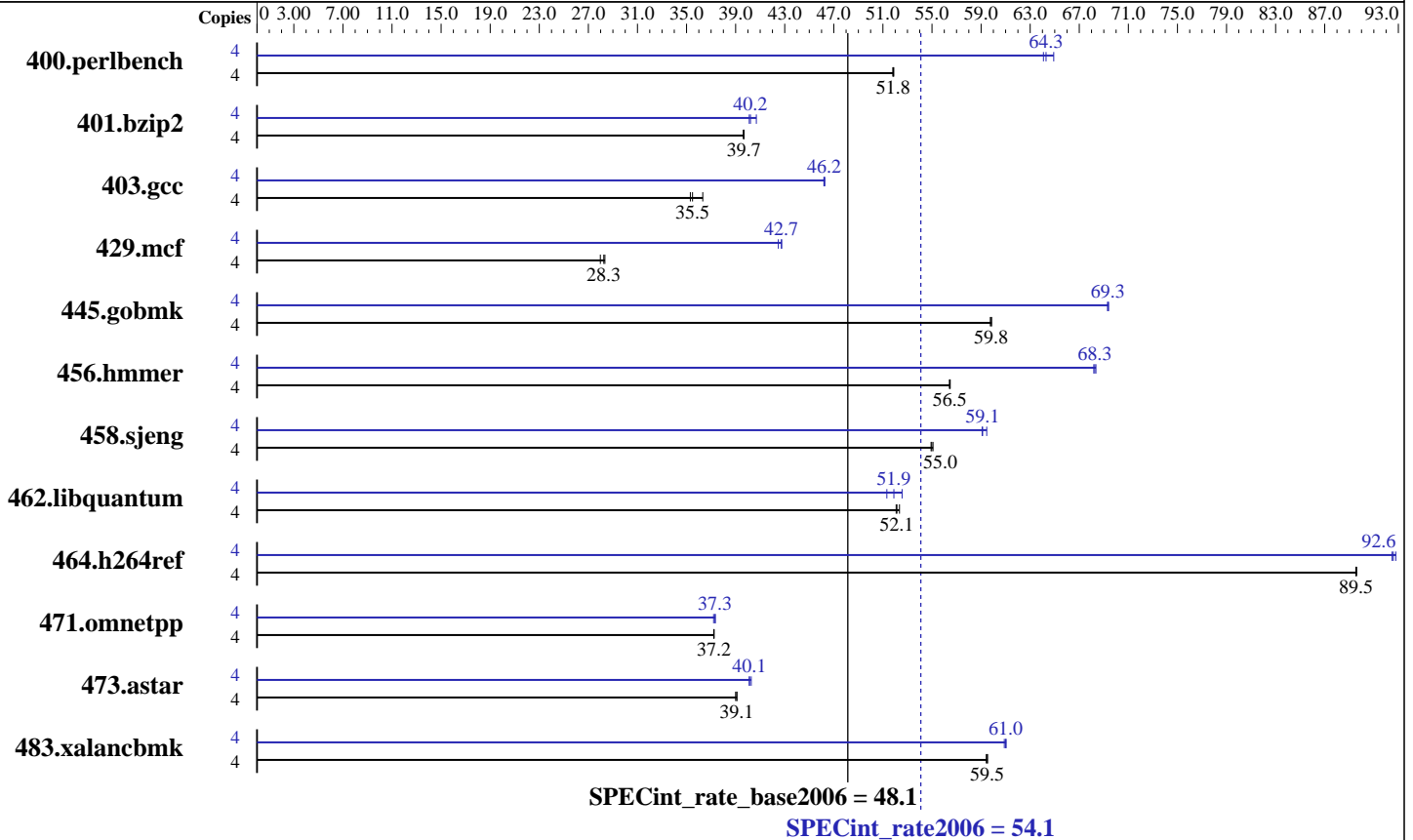
SPECint_rate_base2006 = 48.1

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

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

Copies	0 3.00 7.00 11.0 15.0 19.0 23.0 27.0 31.0 35.0 39.0 43.0 47.0 51.0 55.0 59.0 63.0 67.0 71.0 75.0 79.0 83.0 87.0 93.0

400.perlbench — 4: 64.3 / 4: 51.8
401.bzip2 — 4: 40.2 / 4: 39.7
403.gcc — 4: 46.2 / 4: 35.5
429.mcf — 4: 42.7 / 4: 28.3
445.gobmk — 4: 69.3 / 4: 59.8
456.hmmer — 4: 68.3 / 4: 56.5
458.sjeng — 4: 59.1 / 4: 55.0
462.libquantum — 4: 51.9 / 4: 52.1
464.h264ref — 4: 92.6 / 4: 89.5
471.omnetpp — 4: 37.3 / 4: 37.2
473.astar — 4: 40.1 / 4: 39.1
483.xalancbmk — 4: 61.0 / 4: 59.5

SPECint_rate_base2006 = 48.1

SPECint_rate2006 = 54.1

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

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

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

Results Table

Benchmark	Base Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Peak 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
```

SPEC CINT2006 Result

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

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
```

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

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

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
```

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

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

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`

SPEC and SPECint are registered trademarks of the Standard Performance
Evaluation Corporation. All other brand and product names appearing in
this result are trademarks or registered trademarks of their respective
holders.

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

Tested with SPEC CPU2006 v1.0.1.
Report generated on Tue Jul 22 11:02:24 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 12 June 2007.