SPEC® CINT2006 Result
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Supermicro Motherboard H8DM8-2

SPECint®2006 =　12.3

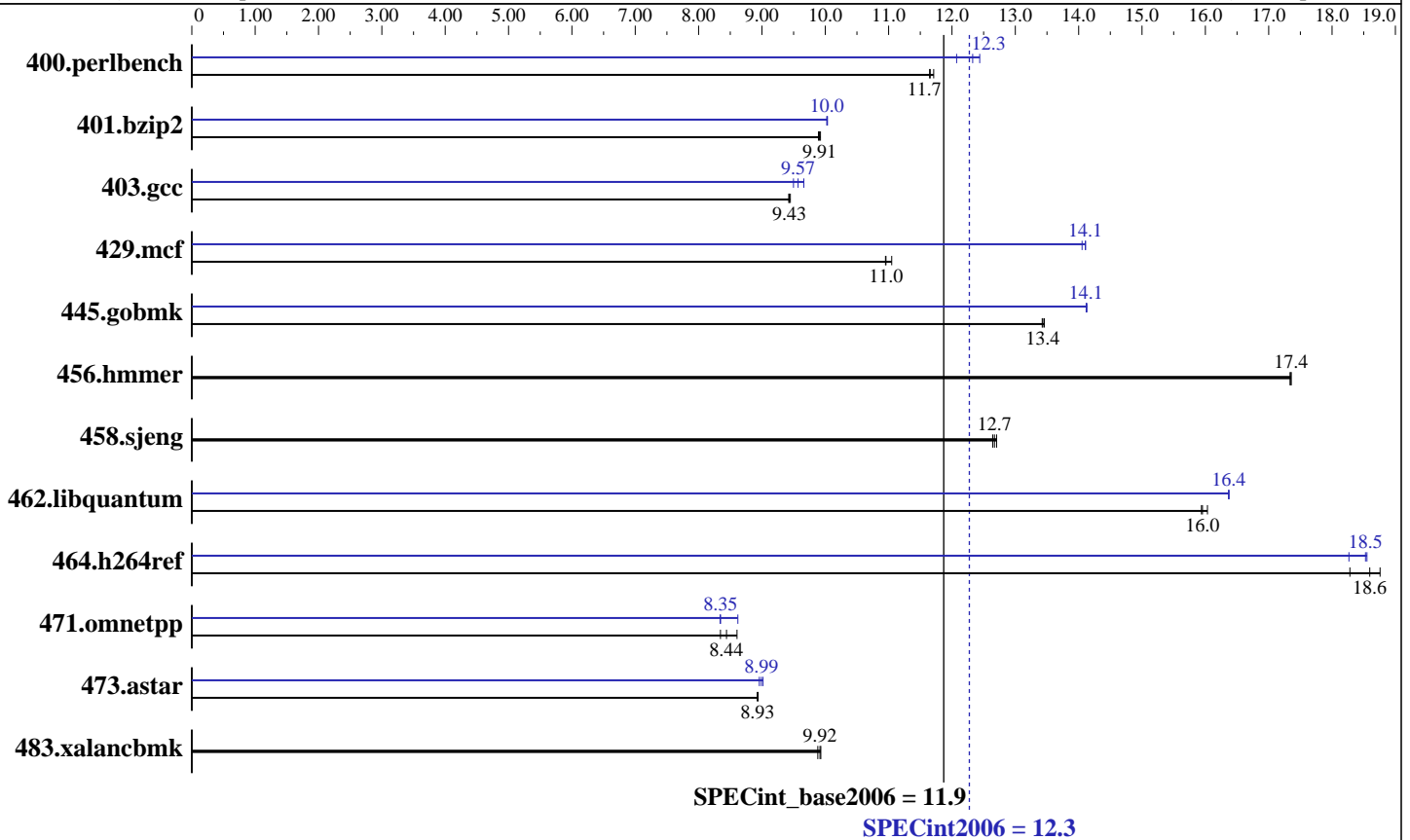SPECint_base2006 =　11.9

CPU2006 license: 001176　　　　　　　　　　**Test date:** Mar-2007
Test sponsor: Supermicro　　　　　　　　　　**Hardware Availability:** Jan-2007
Tested by: Supermicro　　　　　　　　　　　**Software Availability:** Sep-2006

Benchmark	Result
400.perlbench	12.3 / 11.7
401.bzip2	10.0 / 9.91
403.gcc	9.57 / 9.43
429.mcf	14.1 / 11.0
445.gobmk	14.1 / 13.4
456.hmmer	17.4
458.sjeng	12.7
462.libquantum	16.4 / 16.0
464.h264ref	18.5 / 18.6
471.omnetpp	8.35 / 8.44
473.astar	8.99 / 8.93
483.xalancbmk	9.92

SPECint_base2006 = 11.9

SPECint2006 = 12.3

Hardware

CPU Name:	AMD Opteron 2220 SE
CPU Characteristics:	2.8GHz
CPU MHz:	2800
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:	64 GB (16x4GB, ECC REG PC25300 CLS)
Disk Subsystem:	250GB IDE, 7200 RPM
Other Hardware:	None

Software

Operating System:	SuSE 10.0 (Kernel 2.6.16.21-0.8-smp x86_64)
Compiler:	The Portland Group (PGI)
	PGI pgcc 6.2-4 C Compiler
	PGI pgCC 6.2-4 C++ Compiler
Auto Parallel:	No
File System:	ext3
System State:	Multi-user
Base Pointers:	32/64-bit
Peak Pointers:	32/64-bit
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	839	11.6	**838**	**11.7**	834	11.7	**793**	**12.3**	809	12.1	786	12.4
401.bzip2	976	9.89	972	9.92	**974**	**9.91**	**962**	**10.0**	962	10.0	962	10.0
403.gcc	852	9.45	854	9.42	**854**	**9.43**	**841**	**9.57**	833	9.66	848	9.50
429.mcf	825	11.0	**832**	**11.0**	833	11.0	**646**	**14.1**	646	14.1	649	14.1
445.gobmk	781	13.4	**781**	**13.4**	779	13.5	**743**	**14.1**	742	14.1	743	14.1
456.hmmer	538	17.3	538	17.4	**538**	**17.4**	538	17.3	538	17.4	**538**	**17.4**
458.sjeng	952	12.7	**955**	**12.7**	957	12.6	952	12.7	**955**	**12.7**	957	12.6
462.libquantum	**1299**	**16.0**	1292	16.0	1300	15.9	**1266**	**16.4**	1266	16.4	1266	16.4
464.h264ref	**1190**	**18.6**	1180	18.8	1210	18.3	1193	18.6	**1194**	**18.5**	1211	18.3
471.omnetpp	**740**	**8.44**	726	8.61	749	8.35	**749**	**8.35**	725	8.62	749	8.34
473.astar	786	8.93	785	8.94	**786**	**8.93**	778	9.02	**781**	**8.99**	784	8.96
483.xalancbmk	**696**	**9.92**	698	9.88	695	9.93	**696**	**9.92**	698	9.88	695	9.93

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

General Notes

```
  Environment stack size set to 'unlimited'
  Tested systems can be used with CSE-825S2-560LPV 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/H8DM8-2.cfm
```

Base Compiler Invocation

C benchmarks:
```
/opt/pgi/624/linux86-64/6.2/bin/pgcc
```

C++ benchmarks:
```
/opt/pgi/624/linux86-64/6.2/bin/pgCC
```

Base Portability Flags

```
400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
   401.bzip2: -DSPEC_CPU_LP64
     403.gcc: -DSPEC_CPU_LP64 -DSPEC_CPU_HAVE_BOOL
     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
483.xalancbmk: -DSPEC_CPU_LINUX
```

Base Optimization Flags

C benchmarks:
```
    -fastsse -Mipa=fast -Mipa=inline -Msmartalloc -tp k8-64
```

C++ benchmarks:
```
    -fastsse -Mipa=fast -Mipa=inline -Msmartalloc -tp k8-32
```

Base Other Flags

C benchmarks:
```
    -w
```

C++ benchmarks:
```
    -w
```

Peak Compiler Invocation

C benchmarks:
```
    /opt/pgi/624/linux86-64/6.2/bin/pgcc
```

C++ benchmarks:
```
    /opt/pgi/624/linux86-64/6.2/bin/pgCC
```

Peak Portability Flags

```
    400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
       401.bzip2: -DSPEC_CPU_LP64
         403.gcc: -DSPEC_CPU_LP64 -DSPEC_CPU_HAVE_BOOL
         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
   483.xalancbmk: -DSPEC_CPU_LINUX
```

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Peak Optimization Flags

C benchmarks:

```
    400.perlbench: -Mpfi(pass 1) -Mipa=fast(pass 2) -Mipa=inline(pass 2)
                   -Mpfo(pass 2) -fastsse -Msmartalloc -Mnounroll -tp k8-64

        401.bzip2: -Mpfi(pass 1) -Mipa=fast(pass 2) -Mipa=inline(pass 2)
                   -Mpfo(pass 2) -fastsse -Msmartalloc -tp k8-64

          403.gcc: Same as 401.bzip2

          429.mcf: -Mpfi(pass 1) -Mipa=fast(pass 2) -Mipa=inline(pass 2)
                   -Mpfo(pass 2) -fastsse -tp k8-32

        445.gobmk: -Mpfi(pass 1) -Mipa=fast(pass 2) -Mipa=inline(pass 2)
                   -Mpfo(pass 2) -fastsse -Msmartalloc -Msafeptr -tp k8-64

       456.hmmer: basepeak = yes

        458.sjeng: basepeak = yes

   462.libquantum: -fastsse -Msafeptr -Mfprelaxed -Msmartalloc
                   -Mprefetch=distance:8 -Mprefetch=nta -Mipa=fast
                   -Mipa=inline -Mipa=nolocalarg -tp k8-64

       464.h264ref: -Mpfi(pass 1) -Mipa=fast(pass 2) -Mipa=inline(pass 2)
                   -Mpfo(pass 2) -fastsse -Msmartalloc -Mvect=noaltcode
                   -tp k8-64
```

C++ benchmarks:

```
       471.omnetpp: -fastsse -Msmartalloc -Mfprelaxed=rsqrt -Mfprelaxed=sqrt
                   -Mfprelaxed=div -Mipa=fast -Mipa=inline -tp k8-32

         473.astar: -fastsse -Mipa=fast -Mipa=inline -Msmartalloc -tp k8-64

     483.xalancbmk: basepeak = yes
```

Peak Other Flags

C benchmarks:
```
    -w
```

C++ benchmarks:
```
    -w
```

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The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/pgi62_flags.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/pgi62_flags.xml`

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

Tested with SPEC CPU2006 v1.0.
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