Supermicro

Motherboard B8DTE (Intel Xeon E5504, 2.00 GHz)

**SPECint\_rate2006 = 139**

| SPECint\_rate_base2006 = 125 |

**SPEC® CINT2006 Result**

CPU2006 license: 001176

Test date: Jan-2010

Test sponsor: Supermicro

Hardware Availability: Jan-2010

Tested by: Supermicro

Software Availability: Oct-2009

### Software

- **Operating System:** SUSE Linux Enterprise Server 11 (x86_64)
  - Kernel 2.6.27.19-5-default
- **Compiler:** Intel C++ Professional Compiler for IA32 and Intel 64, Version 11.1
  - Build 20091012 Package ID: l_cproc_p_11.1.059
- **Auto Parallel:** No
- **File System:** ReiserFS
- **System State:** Run level 3 (multi-user)
- **Base Pointers:** 32-bit
- **Peak Pointers:** 32/64-bit
- **Other Software:** Microquill SmartHeap V8.1
  - Binutils 2.18.50.0.7.20080502

### Hardware

- **CPU Name:** Intel Xeon E5504
- **CPU Characteristics:**
  - CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
  - CPU(s) orderable: 1.2 chips
  - Primary Cache: 32 KB I + 32 KB D on chip per core
  - Secondary Cache: 256 KB I+D on chip per core
  - L3 Cache: 4 MB I+D on chip per chip
  - Other Cache: None
- **Memory:** 24 GB (6 x 4 GB DDR3-1333 RDIMM, running at 800MHz, CL5)
- **Disk Subsystem:** 1 x 300 GB SATA II, 7200 RPM
- **Other Hardware:** None
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Results Table

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

Submit Notes
The config file option 'submit' was used.
umactl was used to bind copies to the cores

General Notes

System can be built with CSE-714M-230B. To ensure system stability, enclosure SBE-714E-D28 with 2 1400 W power supplies with full fan speed are needed.

Product description can be obtained at:
http://www.supermicro.com/serversblade/module/SBI-7426T-T3.cfm

Base Compiler Invocation

C benchmarks:
    icc -m32

C++ benchmarks:
    icpc -m32
SPEC CINT2006 Result

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Test date: Jan-2010
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Software Availability: Oct-2009

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
- xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch

C++ benchmarks:
- xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
icc -m32

401.bzip2: icc -m64
456.hmmer: icc -m64
458.sjeng: icc -m64

C++ benchmarks (except as noted below):
icpc -m32
473.astar: icpc -m64

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64

Continued on next page
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Peak Portability Flags (Continued)

462.libquantum: -DSPEC_CPU_LINUX
473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-03(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -ansi-alias

401.bzip2: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-03(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -opt-prefetch -ansi-alias -auto-ilp32

403.gcc: -xSSE4.2 -ipo -03 -no-prec-div -static

429.mcf: -xSSE4.2 -ipo -03 -no-prec-div -static -opt-prefetch

445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2) -O2
-ipo -no-prec-div -ansi-alias

456.hmmer: -xSSE4.2 -ipo -03 -no-prec-div -static -unroll2
-ansi-alias -auto-ilp32

458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-03(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -unroll4 -auto-ilp32

462.libquantum: basepeak = yes

464.h264ref: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-03(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -unroll2 -ansi-alias

C++ benchmarks:

471.omnetpp: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-03(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-ansi-alias -opt-ra-region-strategy=block -Wl,-z,muldefs

473.astar: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-03(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-ansi-alias -opt-ra-region-strategy=routine -Wl,-z,mutdefs
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Peak Optimization Flags (Continued)
483.xalancbmk: basepeak = yes

Peak Other Flags
C benchmarks:
403.gcc: -Dalloca=_alloca

The flags file that was used to format this result can be browsed at
You can also download the XML flags source by saving the following link:

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

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