CINT2000 Result

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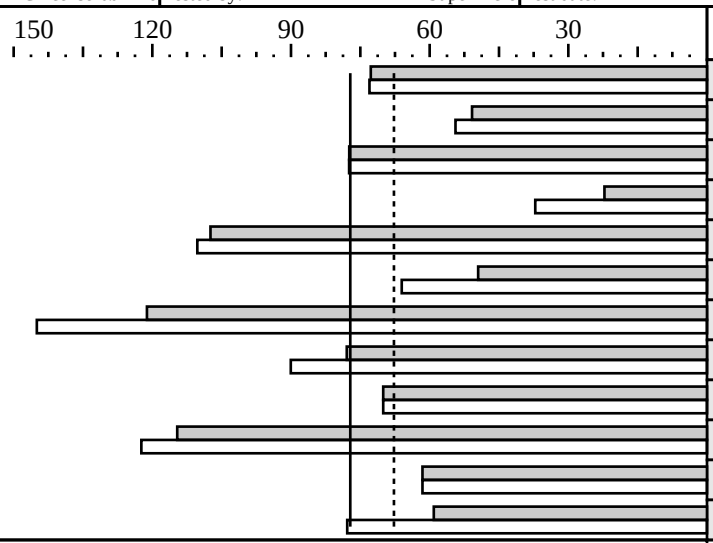
Supermicro

Motherboard H8DM8-2, AMD Opteron(TM) 2218

SPECint_rate2000 = 77.2

SPECint_rate_base2000 = 67.7

SPEC license #01176 | Tested by: Supermicro | Test date: Sep-2006 | Hardware Avail: Sep-2006 | Software Avail: Aug-2005



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	89.3	72.7	4	89.0	73.0
175.vpr	4	128	50.8	4	119	54.4
176.gcc	4	65.9	77.4	4	65.9	77.4
181.mcf	4	376	22.2	4	225	37.2
186.crafty	4	43.2	107	4	42.1	110
197.parser	4	169	49.5	4	126	66.0
252.eon	4	49.8	121	4	41.6	145
253.perlbmk	4	107	77.9	4	92.8	90.0
254.gap	4	72.9	70.0	4	72.9	70.0
255.vortex	4	76.9	115	4	72.0	122
256.bzip2	4	113	61.6	4	113	61.6
300.twolf	4	236	59.1	4	179	77.8

Hardware

CPU:	AMD Opteron(TM) 2218 processor
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1, 2
Parallel:	No
Primary Cache:	64KBI + 64KBD on chip per core
Secondary Cache:	1024KB (I+D) on chip per core
L3 Cache:	N/A
Other Cache:	N/A
Memory:	4x512MB, DDR2-667 Dual Rank CL4 ECC Reg
Disk Subsystem:	SATA, 400 GB
Other Hardware:	None

Software

Operating System:	SuSE Linux Enterprise Server 9 for AMD64, SP3
Compiler:	PathScale EKOPath(TM) Compiler Suite, Release 2.3
File System:	Linux/reiserfs
System State:	Multi-user, run level 3

Notes/Tuning Information

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Tested by Supermicro Computer, Inc.

 +FDO: PASS1= -fb_create fbdata  PASS2= -fb_opt fbdata

 Baseline optimization flags:
   C programs:       -Ofast +FDO
   C++ programs:     -Ofast +FDO

 Portability Flags:
   186.crafty:  -DLINUX_i386
   252.eon:     -DHAS_ERRLIST -DSPEC_CPU2000_LP64
   253.perlbmk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
                -DSPEC_CPU2000_GLIBC22 -DSPEC_CPU2000_LP64
   254.gap:     -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
                -DSYS_HAS_CALLOC_PROTO -DSPEC_CPU2000_LP64
   255.vortex:  -DSPEC_CPU2000_LP64

 Peak Tuning:
 164.gzip:    -O3 -ipa -WOPT:val=0 -OPT:unroll_size=0 +FDO
 175.vpr:     -O3 -ipa -m32 +FDO
```

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Notes/Tuning Information (Continued)

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176.gcc:     -O3 -IPA:plimit=10000 -LNO:opt=0 -OPT:goto=off +FDO
181.mcf:     -O3 -ipa -IPA:field_reorder=on -m32 +FDO
186.crafty:  -Ofast -CG:local_fwd_sched=on -LNO:opt=0 -WOPT:val=0 +FDO
197.parser:  -O3 -ipa -m32 -IPA:ctype=on +FDO
252.eon:     -Ofast -CG:gcm=off:p2align_freq=1:prefetch=off -IPA:plimit=4000
             -OPT:treeheight=on -TENV:X=4:frame_pointer=off -fno-exceptions
             -LNO:fu=10:full_unroll_outer=on -GRA:optimize_boundary=on +FDO
253.perlbmk: -O2 -ipa -OPT:Ofast:transform_to_memlib=off
             -fno-math-errno -IPA:plimit=10000 +FDO
255.vortex:  -Ofast -OPT:goto=off -CG:p2align=on
             -GRA:optimize_boundary=on -IPA:min_hotness=120 +FDO
256.bzip2:   basepeak = true
300.twolf:   -O2 -CG:gcm=off:p2align_freq=100000
             -OPT:Ofast:unroll_times_max=8:unroll_size=256:alias=disjoint
             -WOPT:mem_opnds=on -m32 +FDO
Memory populated at location DIMMA 1A, DIMMA 1B for CPU1 and DIMMB 1A, DIMMB 1B for CPU2
Taskset utility used to bind CPU(s) to processes
Tested systems can be used with SC811S-520 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 H8DM8: http://www.supermicro.com/Aplus/motherboard/Opteron2000/MCP55/H8DM8-2.cfm
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