



CINT2000 Result

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Supermicro
Motherboard H8DM8-2, AMD Opteron(TM) 2218

SPECint_rate2000 = **82.2**
SPECint_rate_base2000 = **72.8**

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	88.3	73.6	4	88.0	73.8
175.vpr	4	116	55.9	4	110	58.8
176.gcc	4	62.2	82.1	4	62.5	81.7
181.mcf	4	287	29.1	4	171	48.9
186.crafty	4	43.2	107	4	42.0	111
197.parser	4	150	55.5	4	119	70.0
252.eon	4	49.7	121	4	41.6	145
253.perlbnk	4	105	79.4	4	90.9	91.9
254.gap	4	66.2	77.1	4	66.2	77.1
255.vortex	4	74.0	119	4	69.1	127
256.bzip2	4	104	66.8	4	104	66.8
300.twolf	4	217	64.0	4	170	81.7

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: 8x2048MB, DDR2-667 ECC Dual Rank CL4 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

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.perlbnk: -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

```

Taskset utility used to bind CPU(s) to processes

Memory populated at location DIMMA 1A, DIMMA 1B, DIMMA 2A, DIMMA 2B for CPU1 and DIMMB 1A, DIMMB 1B, DIMMB 2A, DIMMB 2B for CPU2

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>