



CINT2000 Result

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Advanced Micro Devices
ASUS SK8V Motherboard, AMD Opteron (TM) 150

SPECint_rate2000 = 19.2
SPECint_rate_base2000 = 18.2

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: May-2004 | Hardware Avail: Jun-2004 | Software Avail: Feb-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	105	15.5	1	105	15.5
175.vpr	1	109	14.9	1	105	15.4
176.gcc	1	62.0	20.6	1	62.2	20.5
181.mcf	1	172	12.2	1	138	15.1
186.crafty	1	63.8	18.2	1	58.3	19.9
197.parser	1	121	17.2	1	120	17.4
252.eon	1	57.4	26.3	1	50.1	30.1
253.perlbnk	1	121	17.3	1	108	19.3
254.gap	1	65.8	19.4	1	64.9	19.7
255.vortex	1	75.6	29.1	1	80.4	27.4
256.bzip2	1	119	14.7	1	116	15.0
300.twolf	1	183	19.0	1	167	20.9

Hardware

CPU: AMD Opteron (TM)150
 CPU MHz: 2400
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1
 Parallel: No
 Primary Cache: 64KBI + 64KBD on chip
 Secondary Cache: 1024KB(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 2x512 MB PC3200 DDR SDRAM ECC Reg CL2
 Disk Subsystem: SATA, Western Digital WD360GD
 Other Hardware: None

Software

Operating System: Microsoft Windows XP Professional SP1a
 Compiler: Intel C++ 8.0 build 20031229Z
 Microsoft Visual Studio .NET 7.0.9466 (libraries)
 MicroQuill Smartheap Library 6.0
 File System: NTFS
 System State: Default

Notes/Tuning Information

Tested by AMD

shlw32M6.lib is the SmartHeap library V6.0 from MicroQuill www.microquill.com
 +FDO: PASS1=-Qprof_gen PASS2=-Qprof_use

Portability:

176.gcc: -Dalloca=_alloca /F10000000
 186.crafty: -DNT_i386
 253.perlbnk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
 254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO

Baseline C: -fast -arch:SSE2 -Oi- +FDO

Baseline C++: -fast -arch:SSE2 -GX -GR

Peak Tuning:

164.gzip: -fast -arch:SSE +FDO shlw32M6.lib
 175.vpr: -fast -arch:SSE2 +FDO
 -Qoption,c,-ip_ninl_max_stats=2000 -Qoption,c,-ip_ninl_max_total_stats=4500
 176.gcc: -fast -arch:SSE2 +FDO -Oi- -Qunroll3
 181.mcf: -fast -QaxN +FDO
 186.crafty: -fast -arch:SSE2 +FDO
 197.parser: -arch:SSE2 +FDO -Oi- -Qipo
 252.eon: -fast -arch:SSE2 +FDO -Qansi_alias
 -Qoption,c,-ip_ninl_max_stats=2000 -Qoption,c,-ip_ninl_max_total_stats=4500



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Notes/Tuning Information (Continued)

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253.perlbnk:      -arch:SSE2 +FDO      -Qipo shlw32M6.lib
254.gap:          -fast -arch:SSE2 +FDO -Oi- -Oa
                  -Qoption,c,-ip_ninl_max_stats=500 -Qoption,c,-ip_ninl_max_total_stats=3000
255.vortex:       -fast -arch:SSE  +FDO -Oi- shlw32M6.lib
                  -Qoption,c,-ip_ninl_max_stats=2000 -Qoption,c,-ip_ninl_max_total_stats=4500
256.bzip2:        -fast                                     -Qunroll2
300.twolf:        -fast -arch:SSE2 +FDO      -Qunroll3 shlw32M6.lib -Qansi_alias
The tested system can be assembled using an ATX case such as the Antec KS-282,
a 480W power supply, such as an Antec True Power 480 and a PCI or AGP video card.
BIOS rev. 1001
Memory used is Corsair CMX512R-3200C2
Cas Latency manually set to 2.0 in BIOS
```