



CINT2000 Result

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

SPECint2000 = 1655
SPECint_base2000 = 1566

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	105	1333	105	1339	
175.vpr	1400	109	1282	105	1328	
176.gcc	1100	62.0	1773	62.2	1768	
181.mcf	1800	172	1048	138	1303	
186.crafty	1000	63.8	1569	58.3	1717	
197.parser	1800	121	1484	120	1498	
252.eon	1300	57.4	2265	50.1	2597	
253.perlbnk	1800	121	1491	108	1668	
254.gap	1100	65.8	1672	64.9	1695	
255.vortex	1900	75.6	2512	80.4	2363	
256.bzip2	1500	119	1263	116	1289	
300.twolf	3000	183	1641	167	1798	

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