



CINT2000 Result

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Advanced Micro Devices

ASUS SK8N Motherboard, AMD Opteron (TM) Model 140 EE

SPECint2000 = 990

SPECint_base2000 = 948

SPEC license #: 49 Tested by: AMD, Austin, TX Test date: Jan-2004 Hardware Avail: Feb-2004 Software Avail: Feb-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	182	771	176	793	
175.vpr	1400	168	832	168	834	
176.gcc	1100	117	943	105	1051	
181.mcf	1800	195	923	196	920	
186.crafty	1000	104	959	104	960	
197.parser	1800	200	898	200	900	
252.eon	1300	128	1013	109	1192	
253.perlbnk	1800	189	950	177	1020	
254.gap	1100	108	1023	108	1022	
255.vortex	1900	131	1453	131	1453	
256.bzip2	1500	184	816	173	866	
300.twolf	3000	319	939	292	1027	

Hardware

CPU: AMD Opteron (TM) Model 140 EE
 CPU MHz: 1400
 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: 2x512MB PC3200 DDR SDRAM ECC Registered
 Disk Subsystem: SATA, Western Digital WD360GD, 10k rpm
 Other Hardware: None

Software

Operating System: Windows XP Professional SP1a
 Compiler: Intel C/C++ 7.0 build 20021212Z
 Microsoft Visual Studio .NET 7.0.9466 (for libraries)
 MicroQuill Smartheap Library 6.0
 File System: NTFS
 System State: Default

Notes/Tuning Information

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:

+FDO -O3 -QxW -Qipo

Baseline C++:

+FDO -Qipo -GX -GR

Peak tuning:

164.gzip: +FDO -O3 -QaxK -Qipo -Oi-
 175.vpr: +FDO -O3 -QxW -Qipo
 176.gcc: +FDO -O3 -QxK -Qipo -Oi-
 181.mcf: +FDO -Qipo -Oa
 186.crafty: +FDO -O3 -QxW -Qipo
 197.parser: +FDO -O3 -QxW -Qipo -Oa
 252.eon: +FDO -O3 -QaxW -Qipo -Zp4
 253.perlbnk: +FDO -O3 -Qipo -Oa shlw32M6.lib
 254.gap: +FDO -O3 -QxW -Qipo
 255.vortex: basepeak=1

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<http://www.spec.org>



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Notes/Tuning Information (Continued)

256.bzip2: +FDO -Qipo -Oa -Qunroll1
300.twolf: +FDO -Qxi -Qipo shlw32M6.lib

ONESTEP is used for all base and peak runs

The tested system can be assembled using an ATX case such as the Antec KS-282, a 480W ANTEC power supply, and a AGP video card.

BIOS version: 1004

ECC disabled in BIOS by default