



CINT2000 Result

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Advanced Micro Devices
Rioworks HDAMA Motherboard, AMD Opteron 246

SPECint2000 = 1317
SPECint_base2000 = 1248

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Jul-2003 | Hardware Avail: Aug-2003 | Software Avail: May-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	128	1093	125	1124	
175.vpr	1400	132	1060	132	1060	
176.gcc	1100	86.6	1270	76.2	1444	
181.mcf	1800	205	878	205	876	
186.crafty	1000	72.9	1372	72.9	1371	
197.parser	1800	147	1223	147	1224	
252.eon	1300	89.8	1447	76.2	1706	
253.perlbnk	1800	137	1314	125	1436	
254.gap	1100	78.8	1397	78.8	1397	
255.vortex	1900	98.2	1934	98.2	1934	
256.bzip2	1500	144	1040	136	1102	
300.twolf	3000	244	1230	204	1473	

Hardware

CPU: Opteron 246
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 2
 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 PC2700 DDR Registered SDRAM CL2.5
 Disk Subsystem: 120GB 7200 RPM IDE
 Other Hardware: None

Software

Operating System: Microsoft Windows Server 2003, Enterprise Edition
 Compiler: Intel C/C++ 7.0 build 20021212Z
 Microsoft Visual Studio .NET (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

+FD0: 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: +FD0 -O3 -QxW -Qipo

Baseline C++: +FD0 -Qipo -GX -GR

Peak tuning:

164.gzip: +FD0 -O3 -QaxK -Qipo -Oi-

175.vpr: +FD0 -O3 -QxW -Qipo

176.gcc: +FD0 -O3 -QxK -Qipo -Oi-

181.mcf: +FD0 -Qipo -Oa

186.crafty: +FD0 -O3 -QxW -Qipo

197.parser: +FD0 -O3 -QxW -Qipo -Oa

252.eon: +FD0 -O3 -QaxW -Qipo -Zp4

253.perlbnk: +FD0 -O3 -Qipo -Oa shlw32M6.lib

254.gap: +FD0 -O3 -QxW -Qipo

255.vortex: basepeak=1

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Notes/Tuning Information (Continued)

256.bzip2: +FD0 -Qipo -Oa -Qunroll1
300.twolf: +FD0 -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 460W power supply, like a Sparkle FPS460-60PFN.