



CINT2000 Result

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Advanced Micro Devices
Rioworks HDAMA Motherboard, AMD Opteron (TM) 248

SPECint_rate2000 = **33.1**
SPECint_rate_base2000 = **31.5**

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	118	27.5	2	115	28.2
175.vpr	2	119	27.2	2	119	27.2
176.gcc	2	80.6	31.7	2	70.7	36.1
181.mcf	2	186	22.4	2	187	22.3
186.crafty	2	66.3	35.0	2	66.3	35.0
197.parser	2	138	30.3	2	138	30.2
252.eon	2	81.9	36.8	2	69.5	43.4
253.perlbnk	2	128	32.5	2	115	36.2
254.gap	2	71.9	35.5	2	72.0	35.4
255.vortex	2	92.9	47.5	2	92.9	47.5
256.bzip2	2	131	26.6	2	130	26.7
300.twolf	2	219	31.7	2	186	37.5

Hardware

CPU: AMD Opteron (TM) 248
CPU MHz: 2200
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 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: 4x512MB PC3200 DDR SDRAM, ECC Registered
Disk Subsystem: Seagate Cheetah ST336753LW SCSI, Ultra 320
Other Hardware: None

Software

Operating System: Microsoft Windows 2003 Server Enterprise Edition
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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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 power supply, and a PCI or AGP video card.