



CINT2000 Result

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Advanced Micro Devices

Tyan Thunder K9HM (S3992), AMD Opteron (TM) 2210

SPECint_rate2000 = 15.0

SPECint_rate_base2000 = 13.3

SPEC license #: 49 | Tested by: AMD Austin, TX | Test date: Jul-2006 | Hardware Avail: Sep-2006 | Software Avail: Sep-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	160	10.1	1	141	11.5
175.vpr	1	168	9.68	1	132	12.3
176.gcc	1	118	10.8	1	80.9	15.8
181.mcf	1	184	11.3	1	150	14.0
186.crafty	1	82.6	14.0	1	78.6	14.8
197.parser	1	156	13.4	1	156	13.4
252.eon	1	78.4	19.2	1	70.2	21.5
253.perlbnk	1	134	15.6	1	131	16.0
254.gap	1	88.4	14.4	1	88.4	14.4
255.vortex	1	108	20.4	1	102	21.7
256.bzip2	1	147	11.9	1	143	12.2
300.twolf	1	262	13.3	1	210	16.6

Hardware

CPU: AMD Opteron (TM) 2210
 CPU MHz: 1800
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1,2
 Parallel: no
 Primary Cache: 64KBI + 64KBD on chip per core
 Secondary Cache: 1024KB (I+D) on chip per core
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 4x512MB, DDR2-667 CL4 ECC Reg
 Disk Subsystem: IDE, 120 GB
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise Edition SP1 (32-bit)
 Compiler: Intel C++ 9.0 build 20050912Z for IA32
 Microsoft Visual Studio .NET 7.0.9466 (libraries)
 MicroQuill SmartHeap Library 7.0
 File System: NTFS
 System State: default

Notes/Tuning Information

shlw32M.lib is the SmartHeap library V7.0 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: -O3 -Qipo -Op +FDO

Baseline C++: -O3 -Qipo -Qcxx-features +FDO

Peak Tuning:

164.gzip: -O3 -Qipo -QxW +FDO

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

-Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500

176.gcc: -O3 -Qipo -QxW -Oi- -Qunroll13 +FDO

181.mcf: -O3 -Qipo -QaxN +FDO

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

197.parser: -QxW +FDO -Oi- -Qipo

252.eon: -O3 -Qipo -QxW +FDO -Qansi_alias

-Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500

253.perlbnk: -O3 -Qipo -QxW +FDO

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info@spec.org

<http://www.spec.org>



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Notes/Tuning Information (Continued)

```
254.gap:          basepeak = yes
255.vortex:       -O3 -Qipo -arch:SSE +FDO -Oi- shlw32m.lib
                  -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
256.bzip2:        -O3 -Qipo -Qunroll2
300.twolf:        -O3 -Qipo -QxW +FDO -Qunroll3 shlw32m.lib -Qansi_alias
system can be built using a standard ATX case and a Zippy 700W PSL-6701P power supply
Half memory slots populated on CPU in dual channel configuration
```