



CINT2000 Result

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Advanced Micro Devices
Tyan Thunder K8QS Pro (S4882), AMD Opteron (TM) 850

SPECint_rate2000 = **19.3**
SPECint_rate_base2000 = **18.2**

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Sep-2004 | Hardware Avail: Jul-2004 | Software Avail: Aug-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	106	15.4	1	106	15.4
175.vpr	1	108	15.0	1	105	15.5
176.gcc	1	63.4	20.1	1	63.4	20.1
181.mcf	1	157	13.3	1	130	16.0
186.crafty	1	65.0	17.8	1	59.0	19.7
197.parser	1	122	17.2	1	121	17.3
252.eon	1	59.0	25.6	1	51.0	29.6
253.perlbnk	1	114	18.3	1	114	18.3
254.gap	1	66.7	19.1	1	66.7	19.1
255.vortex	1	79.6	27.7	1	74.7	29.5
256.bzip2	1	118	14.7	1	115	15.1
300.twolf	1	185	18.8	1	158	22.0

Hardware

CPU: AMD Opteron (TM) 850
 CPU MHz: 2400
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 4
 Parallel: No
 Primary Cache: 64KBI + 64KBD on chip
 Secondary Cache: 1024KB(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 4x512 MB PC3200 CL3.0 ECC Registered
 Disk Subsystem: SCSI, Seagate Cheetah ST336753LW
 Ultra 320, 15K rpm
 Other Hardware: None

Software

Operating System: Microsoft Windows Server 2003, Enterprise Edition
 Compiler: Intel C++ 8.0 build 20040611Z
 Microsoft Visual Studio .NET 7.0.9466 (libraries)
 MicroQuill Smartheap Library 7.0
 File System: NTFS
 System State: Default

Notes/Tuning Information

Tested by Advanced Micro Devices
 shlw32m7.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: -fast -arch:SSE2 -Oi- +FDO
 Baseline C++: -fast -arch:SSE2 -GX -GR
 Peak Tuning:
 164.gzip: basepeak=yes
 175.vpr: -fast -arch:SSE2 +FDO
 -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
 176.gcc: -fast -arch:SSE2 +FDO -Oi- -Qunroll3: basepeak=yes
 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



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Notes/Tuning Information (Continued)

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-Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
253.perlbnk: basepeak=yes
254.gap: basepeak=yes
255.vortex: -fast -arch:SSE +FDO -Oi- shlw32M7.lib
           -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
256.bzip2: -fast -Qunroll12
300.twolf: -fast -arch:SSE2 +FDO -Qunroll13 shlw32M7.lib -Qansi_alias
BIOS rev. 1.02
All memory slots populated on CPU0
The tested system can be assembled using an SSI MEB footprint case, such as the CCSI RC0352 3U
rackmount case, and a Tyan recommended 650W EPS-12V power supply, such as the Enermax
660W power supply (PEG851AX-VH)
Physical Address Extension (PAE) enabled

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