



CINT2000 Result

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

SPECint2000 = 1663
SPECint_base2000 = 1567

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	106	1325	106	1325	
175.vpr	1400	108	1296	105	1333	
176.gcc	1100	63.4	1734	63.4	1734	
181.mcf	1800	157	1144	130	1381	
186.crafty	1000	65.0	1538	59.0	1694	
197.parser	1800	122	1481	121	1488	
252.eon	1300	59.0	2204	51.0	2549	
253.perlbmk	1800	114	1581	114	1581	
254.gap	1100	66.7	1649	66.7	1649	
255.vortex	1900	79.6	2387	74.7	2545	
256.bzip2	1500	118	1270	115	1304	
300.twolf	3000	185	1619	158	1895	

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.perlbmk: -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

Standard Performance Evaluation Corporation

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<http://www.spec.org>



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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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