



CINT2000 Result

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Advanced Micro Devices
Tyan Thunder K8W (S2885), AMD Opteron (TM) 250

SPECint_rate2000 = 37.7
SPECint_rate_base2000 = 35.2

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Apr-2004 | Hardware Avail: May-2004 | Software Avail: Feb-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	107	30.5	2	106	30.7
175.vpr	2	112	28.9	2	108	30.0
176.gcc	2	63.4	40.2	2	64.0	39.9
181.mcf	2	185	22.6	2	150	27.9
186.crafty	2	64.5	36.0	2	58.6	39.6
197.parser	2	127	33.0	2	126	33.3
252.eon	2	60.7	49.7	2	50.1	60.2
253.perlbnk	2	119	35.2	2	109	38.2
254.gap	2	68.1	37.5	2	65.9	38.7
255.vortex	2	80.3	54.9	2	77.2	57.1
256.bzip2	2	122	28.5	2	120	28.9
300.twolf	2	185	37.5	2	168	41.6

Hardware

CPU: AMD Opteron (TM) 250
CPU MHz: 2400
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: 4 x 512 MB PC3200 DDR SDRAM ECC Registered CL3.0
Disk Subsystem: SCSI, Ultra-320, 15k rpm
Other Hardware: None

Software

Operating System: Microsoft Windows Server 2003 Enterprise Edition
Compiler: Intel C++ 8.0 build 20031229Z
Microsoft Visual Studio .NET 7.0.9466 (libraries)
MicroQuill Smartheap Library 6.0
File System: NTFS
System State: Default

Notes/Tuning Information

Tested by AMD
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: -fast -arch:SSE2 -Oi- +FDO
Baseline C++: -fast -arch:SSE2 -GX -GR
Peak Tuning:
164.gzip: -fast -arch:SSE +FDO shlw32M6.lib
175.vpr: -fast -arch:SSE2 +FDO
- Qoption,c,-ip_ninl_max_stats=2000 -Qoption,c,-ip_ninl_max_total_stats=4500
176.gcc: -fast -arch:SSE2 +FDO -Oi- -Qunroll3
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
- Qoption,c,-ip_ninl_max_stats=2000 -Qoption,c,-ip_ninl_max_total_stats=4500



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Notes/Tuning Information (Continued)

```
253.perlbnk:      -arch:SSE2 +FDO      -Qipo shlw32M6.lib
254.gap:          -fast -arch:SSE2 +FDO -Oi- -Oa
                  -Qoption,c,-ip_ninl_max_stats=500 -Qoption,c,-ip_ninl_max_total_stats=3000
255.vortex:      -fast -arch:SSE  +FDO -Oi- shlw32M6.lib
                  -Qoption,c,-ip_ninl_max_stats=2000 -Qoption,c,-ip_ninl_max_total_stats=4500
256.bzip2:       -fast                               -Qunroll2
300.twolf:       -fast -arch:SSE2 +FDO      -Qunroll3 shlw32M6.lib -Qansi_alias
The tested system can be assembled using an ATX case such as the Antec KS-282,
a 460W power supply, like a Sparkle 460-60PFN and a PCI or AGP video card.
BIOS rev.: 1.01
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