CINT2000 Result

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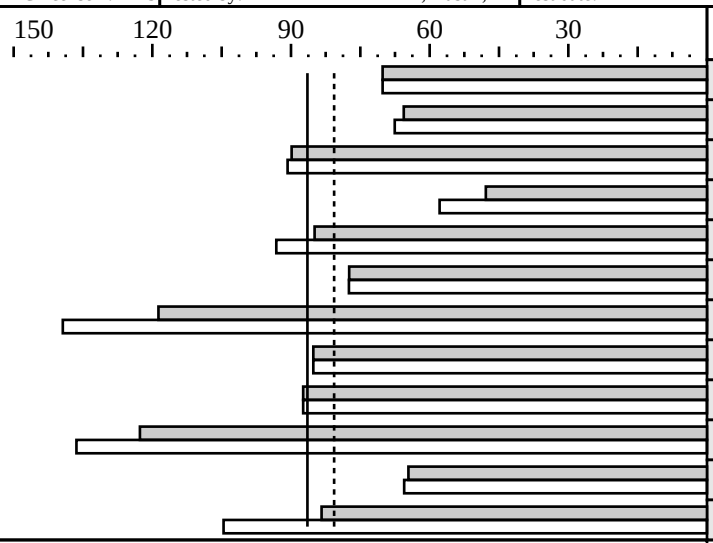
Advanced Micro Devices

TYAN Thunder K8QSD Pro (S4882-D), AMD Opteron (TM) 854

SPECint_rate2000 = 86.4

SPECint_rate_base2000 = 80.7

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Aug-2005 | Hardware Avail: Aug-2005 | Software Avail: Mar-2005



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	92.6	70.2	4	92.6	70.2
175.vpr	4	99.0	65.6	4	96.2	67.6
176.gcc	4	56.8	89.9	4	56.3	90.7
181.mcf	4	175	47.8	4	144	57.8
186.crafty	4	54.7	84.9	4	49.8	93.2
197.parser	4	108	77.4	4	108	77.5
252.eon	4	50.8	119	4	43.3	139
253.perlbmk	4	98.1	85.2	4	98.1	85.2
254.gap	4	58.4	87.4	4	58.4	87.4
255.vortex	4	71.9	123	4	64.6	136
256.bzip2	4	108	64.6	4	106	65.5
300.twolf	4	167	83.4	4	133	105

Hardware

CPU:	AMD Opteron (TM) 854
CPU MHz:	2800
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip
CPU(s) orderable:	1-4
Parallel:	no
Primary Cache:	64KBI + 64KBD on chip
Secondary Cache:	1024KB (I+D) on chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	16x512 MB, DDR400 ECC Reg CL2.5
Disk Subsystem:	SATA Western Digital WD740GD, 74GB 10000 rpm
Other Hardware:	None

Software

Operating System:	Microsoft Windows Server 2003 Enterprise Edition SP1
Compiler:	Intel C++ 8.0 build 20040415Z 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.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
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,-ip_ninl_max_total_stats=4500
253.perlbmk:  basepeak=yes
```

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Notes/Tuning Information (Continued)

```
 254.gap:      basepeak=yes
 255.vortex:   -fast -arch:SSE  +FDO -Oi- shlW32M.lib
               -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
 256.bzip2:    -fast                        -Qunroll2
 300.twolf:    -fast -arch:SSE2 +FDO        -Qunroll3 shlW32M.lib -Qansi_alias
The system under test can be built using a 13" x 16" SSI MEB case and an
Enermax EPS 12 Volt ATX-6ES 660 Watt power supply.
The 'start /b /wait /affinity' command was used to bind CPU(s) to processes.
All memory slots were populated with Kingston KRX3200AK2 on all CPU(s).
Memory timings were manually set in BIOS: CL=2.5, TRCD=3, TRAS=6, TRP=3
BIOS Rev E.1.02
```