CINT2000 Result

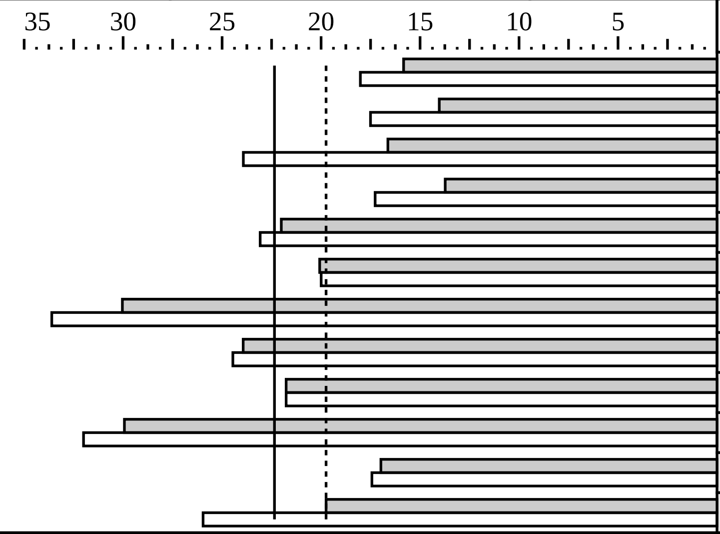
Advanced Micro Devices

Tyan Thunder K9QE (S4985) AMD Opteron (TM) 2220SE

SPECint_rate2000 = 22.4

SPECint_rate_base2000 = 19.7

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	103	15.8	1	90.1	18.0
175.vpr	1	116	14.0	1	92.8	17.5
176.gcc	1	76.8	16.6	1	53.3	23.9
181.mcf	1	152	13.7	1	121	17.3
186.crafty	1	52.7	22.0	1	50.3	23.1
197.parser	1	104	20.1	1	104	20.0
252.eon	1	50.2	30.0	1	44.9	33.6
253.perlbmk	1	87.2	23.9	1	85.4	24.5
254.gap	1	58.6	21.8	1	58.6	21.8
255.vortex	1	73.6	29.9	1	68.9	32.0
256.bzip2	1	102	17.0	1	99.8	17.4
300.twolf	1	176	19.7	1	134	26.0

Hardware

CPU:	AMD Opteron (TM) 2220SE
CPU MHz:	2800
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1,2,4
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:	SATA, 74Gb
Other Hardware:	None

Software

Operating System:	Windows Server 2003 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.perlbmk:  -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- -Qunroll3 +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.perlbmk:  -O3 -Qipo -QxW +FDO
```

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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
All memory slots populated on all CPU(s)
The system can be built using a Zippy 700W EPS12V power supply and any SSI-MEB case.
BIOS Changes: Enable Basic ECC
```