CINT2000 Result

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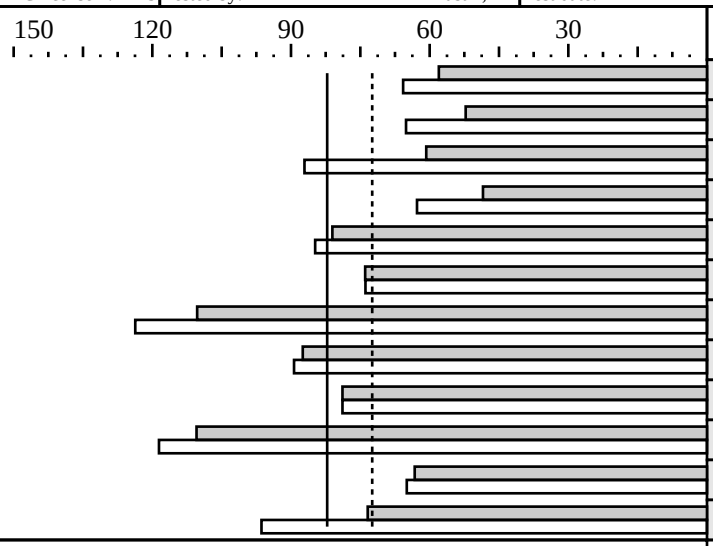
Advanced Micro Devices

Tyan Thunder K9HM (S3992), AMD Opteron (TM) 2218

SPECint_rate2000 = 82.2

SPECint_rate_base2000 = 72.4

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	4	112	58.0	4	98.8	65.7
175.vpr	4	124	52.2	4	99.8	65.1
176.gcc	4	84.0	60.7	4	58.6	87.1
181.mcf	4	172	48.5	4	133	62.7
186.crafty	4	57.3	81.0	4	54.7	84.8
197.parser	4	113	74.0	4	113	73.9
252.eon	4	54.7	110	4	48.8	124
253.perlbmk	4	95.5	87.5	4	93.5	89.3
254.gap	4	64.7	78.9	4	64.7	78.9
255.vortex	4	79.8	110	4	74.4	119
256.bzip2	4	110	63.2	4	107	65.0
300.twolf	4	190	73.4	4	144	96.4

Hardware

CPU:	AMD Opteron (TM) 2218
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2
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:	8x512MB, DDR2-667 CL4 ECC Reg
Disk Subsystem:	IDE, 120 GB
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise Edition 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
system can be built using a standard ATX case and a Zippy 700W PSL-6701P power supply
Half memory slots populated on all CPUs in dual channel configuration
'start /b /wait /affinity' command is used to bind CPU(s) to processes
```