CINT2000 Result

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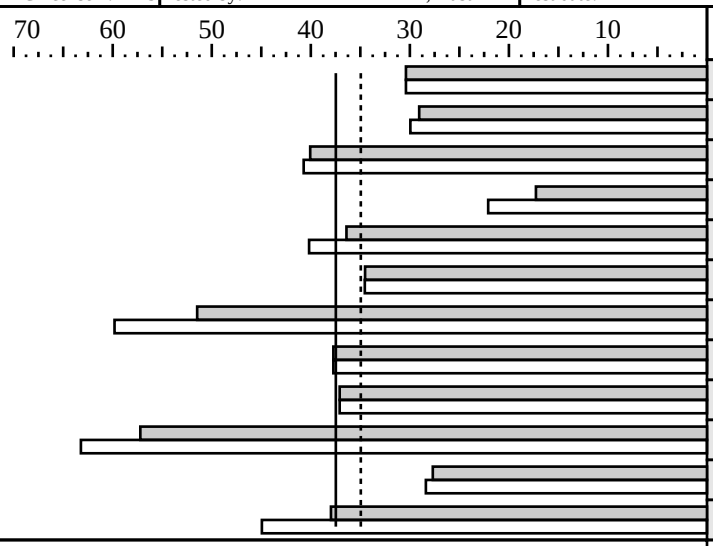
Advanced Micro Devices

TYAN Tomcat K8E (S2865), AMD Opteron (TM) 180

SPECint_rate2000 = 37.5

SPECint_rate_base2000 = 35.0

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	107	30.4	2	107	30.4
175.vpr	2	112	29.1	2	108	29.9
176.gcc	2	63.7	40.1	2	62.7	40.7
181.mcf	2	242	17.3	2	189	22.1
186.crafty	2	63.7	36.4	2	57.8	40.2
197.parser	2	121	34.5	2	121	34.5
252.eon	2	58.6	51.5	2	50.4	59.8
253.perlbmk	2	111	37.7	2	111	37.7
254.gap	2	68.8	37.1	2	68.8	37.1
255.vortex	2	77.0	57.2	2	69.7	63.2
256.bzip2	2	126	27.7	2	123	28.4
300.twolf	2	183	38.0	2	155	44.9

Hardware

CPU:	AMD Opteron (TM) 180 (939-pin)
CPU MHz:	2400
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1
Parallel:	no
Primary Cache:	64KBI + 64KBD/core
Secondary Cache:	1024KB (I+D)/core
L3 Cache:	N/A
Other Cache:	N/A
Memory:	4x512 MB, DDR400 CL2
Disk Subsystem:	SATA, Western Digital WD740GD, 74 GB 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
```

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Notes/Tuning Information (Continued)

```
 253.perlbmk:  basepeak=yes
 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 tested system can be built using a standard ATX case and an Antec
True 550W EPS12V power supply.
All memory slots populated on all CPU(s).
BIOS Version 2.01
'start /b /wait /affinity' command was used to bind CPU(s) to processes.
```