CINT2000 Result

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Advanced Micro Devices

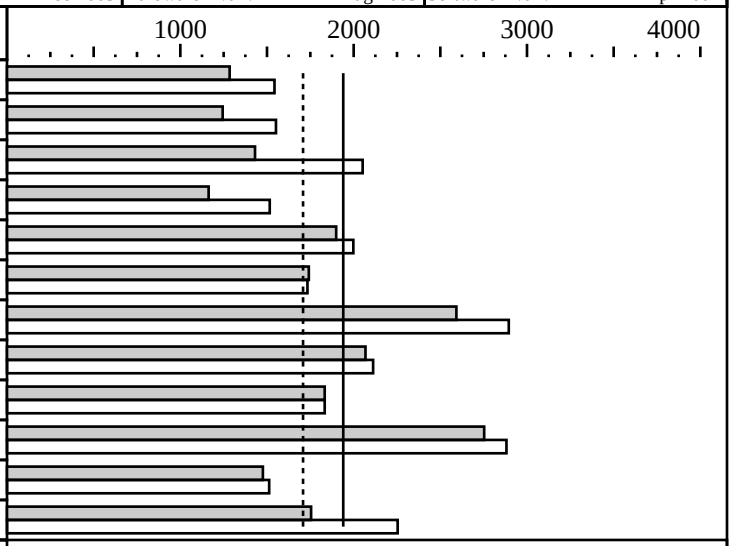
TYAN Tomcat K8E (S2865), AMD Opteron (TM) 154

SPECint2000 = 1940

SPECint_base2000 = 1708

SPEC license #: 49 | Tested by: AMD, Austin, Texas | Test date: Dec-2005 | Hardware Avail: Aug-2005 | Software Avail: Apr-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	109	1284	90.7	1543
175.vpr	1400	113	1244	90.2	1552
176.gcc	1100	76.9	1431	53.6	2052
181.mcf	1800	155	1163	119	1516
186.crafty	1000	52.7	1899	50.0	1998
197.parser	1800	103	1741	104	1733
252.eon	1300	50.1	2593	44.9	2895
253.perlbmk	1800	87.0	2068	85.2	2112
254.gap	1100	60.0	1833	60.0	1833
255.vortex	1900	69.0	2753	65.9	2881
256.bzip2	1500	102	1476	99.2	1513
300.twolf	3000	171	1754	133	2254



Hardware

CPU:	AMD Opteron (TM) 154 (939-pin)
CPU MHz:	2800
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1
Parallel:	no
Primary Cache:	64KBI + 64KBD on chip
Secondary Cache:	1024KB (I+D) on chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	2x512MB, DDR400 CL2
Disk Subsystem:	IDE, 40 GB
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise edition (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 = true
 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
Corsair CMX512-3200XL memory used in Dual Channel configuration
Memory timings manually set in BIOS: CAS=2, Trcd=2, Tras=5, Trp=2
BIOS rev 3.00
The tested system can be assembled using a standard ATX case and an Antec True 550
watt EPS12V Power Supply
```