



CINT2000 Result

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Advanced Micro Devices
TYAN S2865 K8E Tomcat, AMD Opteron (TM) 152

SPECint2000 = 1818
SPECint_base2000 = 1713

SPEC license #: 49 Tested by: AMD, Austin, TX Test date: Jul-2005 Hardware Avail: Aug-2005 Software Avail: Aug-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	97.3	1439	97.3	1439	[Bar chart]			
175.vpr	1400	98.2	1426	94.8	1477	[Bar chart]			
176.gcc	1100	57.3	1920	57.1	1926	[Bar chart]			
181.mcf	1800	156	1150	128	1410	[Bar chart]			
186.crafty	1000	59.8	1671	53.7	1863	[Bar chart]			
197.parser	1800	109	1653	109	1654	[Bar chart]			
252.eon	1300	53.2	2445	47.5	2740	[Bar chart]			
253.perlbnk	1800	102	1759	102	1759	[Bar chart]			
254.gap	1100	60.4	1821	60.4	1821	[Bar chart]			
255.vortex	1900	73.2	2594	67.2	2829	[Bar chart]			
256.bzip2	1500	108	1388	107	1405	[Bar chart]			
300.twolf	3000	166	1809	143	2098	[Bar chart]			

Hardware

CPU: AMD Opteron (TM) 152 (939-pin)
 CPU MHz: 2600
 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: 4x512 MB DDR400 CL2.0
 Disk Subsystem: SATA, Western Digital WD740GD, 10000 rpm
 Other Hardware: None

Software

Operating System: Microsoft Windows XP Pro SP2
 Compiler: Intel C++ 8.0 build 20040714Z
 Microsoft Visual Studio .NET 7.0.9466 (libraries)
 MicroQuill Smartheap Library 7.0
 File System: NTFS
 System State: Default

Notes/Tuning Information

shlw32M7.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.perlbnk: -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.perlbnk: basepeak=yes



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Notes/Tuning Information (Continued)

```
254.gap:      basepeak=yes
255.vortex:   -fast -arch:SSE +FDO -Oi- shlw32M7.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 shlw32M7.lib -Qansi_alias
```

The tested system can be assembled using a standard ATX footprint, an Antec True 550 Watt EPS12V power supply, and a PCI or PCIe graphics card.
All memory slots were populated with Corsair CMX512-3200XL.
Memory timings manually set in BIOS: CAS=2, TRCD=2, TRAS=5, TRP=2
BIOS version 1.01