



CINT2000 Result

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Advanced Micro Devices
TYAN S2865 K8E Tomcat, AMD Opteron (TM) 175

SPECint_rate2000 = 33.9
SPECint_rate_base2000 = 32.5

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	115	28.2	2	115	28.2
175.vpr	2	120	27.1	2	118	27.6
176.gcc	2	68.2	37.4	2	74.8	34.1
181.mcf	2	249	16.8	2	195	21.4
186.crafty	2	70.4	32.9	2	63.5	36.5
197.parser	2	130	32.2	2	129	32.3
252.eon	2	62.2	48.5	2	55.8	54.0
253.perlbnk	2	121	34.4	2	121	34.4
254.gap	2	73.3	34.8	2	73.3	34.8
255.vortex	2	87.1	50.6	2	92.1	47.9
256.bzip2	2	133	26.2	2	130	26.7
300.twolf	2	198	35.1	2	169	41.1

Hardware

CPU: AMD Opteron (TM) 175 (939-pin)
 CPU MHz: 2200
 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 CL2.0
 Disk Subsystem: IDE, Western Digital WD2500JB, 7200 rpm
 Other Hardware: None

Software

Operating System: Microsoft Windows Server 2003 Enterprise Edition SP1
 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 start /b /wait /affinity command is used to bind CPU(s) to processes.
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 V2.00b