



CINT2000 Result

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Advanced Micro Devices
TYAN Tomcat K8E (S2865), AMD Opteron(TM) 185

SPECint_rate2000 = 41.0
SPECint_rate_base2000 = 36.0

SPEC license #: 49 | Tested by: AMD Austin, Texas | Test date: Feb-2006 | Hardware Avail: Mar-2006 | Software Avail: Sep-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	112	29.1	2	97.9	33.2
175.vpr	2	123	26.5	2	99.0	32.8
176.gcc	2	83.4	30.6	2	58.2	43.8
181.mcf	2	200	20.8	2	147	28.4
186.crafty	2	56.9	40.7	2	54.3	42.8
197.parser	2	112	37.2	2	113	37.0
252.eon	2	54.4	55.5	2	48.4	62.3
253.perlbnk	2	93.9	44.5	2	92.0	45.4
254.gap	2	66.6	38.3	2	66.6	38.3
255.vortex	2	77.4	57.0	2	71.7	61.5
256.bzip2	2	111	31.2	2	108	32.1
300.twolf	2	186	37.4	2	143	48.5

Hardware

CPU: AMD Opteron(TM) 185 (939-pin)
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1
 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: 2x512MB, DDR400 CL2
 Disk Subsystem: SATA, 250 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.perlbnk: -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- -Qunroll13 +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.perlbnk: -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: Command Rate=1T
BIOS rev 3.01
The tested system can be assembled using a standard ATX case and an Antec True 550
watt EPS12V Power Supply.
```