



CINT2000 Result

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

SPECint2000 = 1821
SPECint_base2000 = 1606

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	111	1263	97.6	1434	[Bar chart showing ratio]			
175.vpr	1400	119	1176	94.6	1480	[Bar chart showing ratio]			
176.gcc	1100	83.1	1324	57.9	1899	[Bar chart showing ratio]			
181.mcf	1800	153	1175	118	1531	[Bar chart showing ratio]			
186.crafty	1000	58.1	1721	55.2	1813	[Bar chart showing ratio]			
197.parser	1800	111	1628	111	1623	[Bar chart showing ratio]			
252.eon	1300	54.2	2400	48.3	2691	[Bar chart showing ratio]			
253.perlbnk	1800	94.0	1915	91.8	1960	[Bar chart showing ratio]			
254.gap	1100	63.9	1722	63.9	1722	[Bar chart showing ratio]			
255.vortex	1900	76.5	2485	71.3	2663	[Bar chart showing ratio]			
256.bzip2	1500	105	1423	103	1460	[Bar chart showing ratio]			
300.twolf	3000	185	1624	145	2076	[Bar chart showing ratio]			

Hardware

CPU: AMD Opteron(TM) 185 (939-pin)
CPU MHz: 2600
FPU: Integrated
CPU(s) enabled: 1 core, 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- -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.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.
/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment.
```