



CINT2000 Result

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Advanced Micro Devices
TYAN Thunder K8SD Pro (S2882-D), AMD Opteron (TM) 256

SPECint2000 = 2024
SPECint_base2000 = 1784

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	97.4	1438	85.8	1632	
175.vpr	1400	109	1285	87.3	1604	
176.gcc	1100	73.2	1502	51.2	2148	
181.mcf	1800	152	1185	117	1540	
186.crafty	1000	50.0	2000	47.7	2097	
197.parser	1800	99.3	1812	99.7	1806	
252.eon	1300	47.2	2756	42.3	3076	
253.perlbnk	1800	82.9	2171	81.2	2216	
254.gap	1100	57.8	1902	57.8	1902	
255.vortex	1900	69.1	2751	64.4	2950	
256.bzip2	1500	97.0	1547	94.6	1586	
300.twolf	3000	166	1804	126	2376	

Hardware

CPU: AMD Opteron (TM) 256
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1-2
 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 ECC Reg
 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:

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 = yes
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 CMX512RE-3200LL (XMS3200REv2.1) memory used in Dual Channel configuration.
BIOS rev 3.06
The tested system can be assembled using a standard ATX case and an Antec True 550
watt EPS12V Power Supply.
/NUMPROC=1 flag added to boot.ini to invoke uniprocessor environment.
```