



CINT2000 Result

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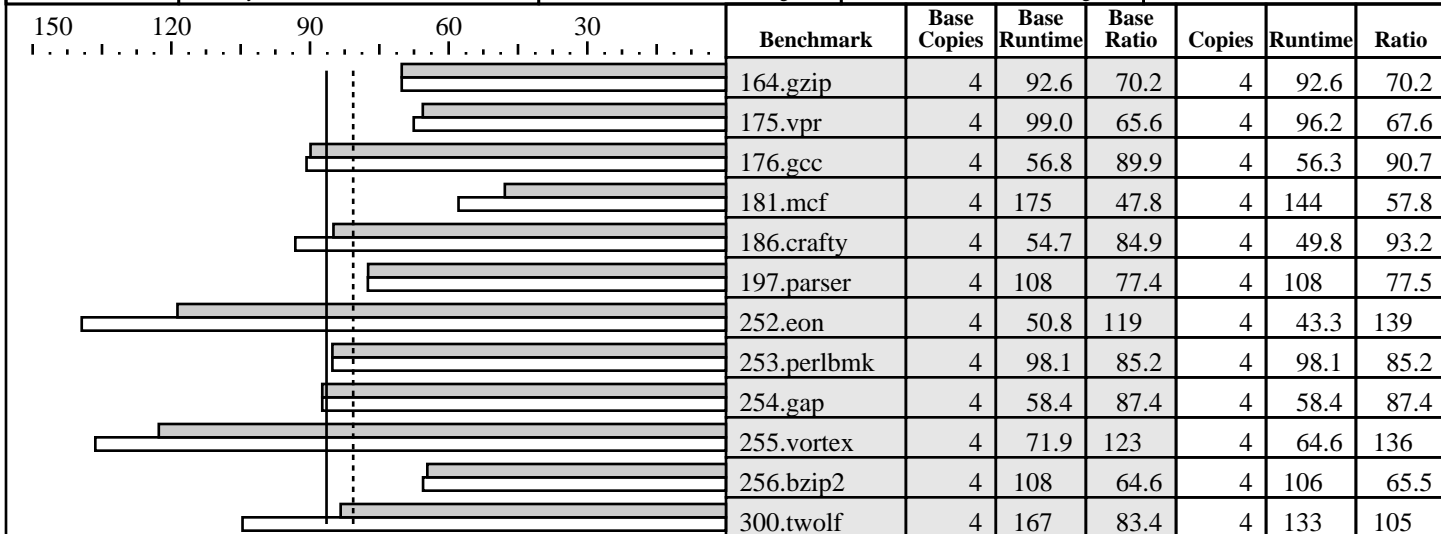
Advanced Micro Devices

TYAN Thunder K8QSD Pro (S4882-D), AMD Opteron (TM) 854

SPECint_rate2000 = 86.4

SPECint_rate_base2000 = 80.7

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



Hardware

CPU: AMD Opteron (TM) 854
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip
 CPU(s) orderable: 1-4
 Parallel: no
 Primary Cache: 64KBI + 64KBD on chip
 Secondary Cache: 1024KB (I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 16x512 MB, DDR400 ECC Reg CL2.5
 Disk Subsystem: SATA Western Digital WD740GD, 74GB 10000 rpm
 Other Hardware: None

Software

Operating System: Microsoft Windows Server 2003 Enterprise Edition SP1
 Compiler: Intel C++ 8.0 build 20040415Z 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: -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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<http://www.spec.org>



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Notes/Tuning Information (Continued)

```
254.gap:      basepeak=yes
255.vortex:   -fast -arch:SSE +FDO -Oi- shlw32m.lib
              -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
256.bzip2:    -fast -Qunroll12
300.twolf:    -fast -arch:SSE2 +FDO -Qunroll13 shlw32m.lib -Qansi_alias
```

The system under test can be built using a 13" x 16" SSI MEB case and an Enermax EPS 12 Volt ATX-6ES 660 Watt power supply.
The 'start /b /wait /affinity' command was used to bind CPU(s) to processes.
All memory slots were populated with Kingston KRX3200AK2 on all CPU(s).
Memory timings were manually set in BIOS: CL=2.5, TRCD=3, TRAS=6, TRP=3
BIOS Rev E.1.02