



CINT2000 Result

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Advanced Micro Devices

TYAN Thunder K8QSD Pro (S4882-D), AMD Opteron (TM) 880

SPECint_rate2000 = 144

SPECint_rate_base2000 = 134

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	110	118	8	110	118
175.vpr	8	114	114	8	111	117
176.gcc	8	66.4	154	8	65.9	155
181.mcf	8	219	76.4	8	177	94.5
186.crafty	8	63.8	146	8	57.9	160
197.parser	8	124	134	8	124	134
252.eon	8	59.2	204	8	50.7	238
253.perlbnk	8	115	145	8	115	145
254.gap	8	76.7	133	8	76.7	133
255.vortex	8	83.3	212	8	74.8	236
256.bzip2	8	151	92.1	8	150	92.9
300.twolf	8	191	146	8	155	180

Hardware

CPU: AMD Opteron (TM) 880
CPU MHz: 2400
FPU: Integrated
CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip
CPU(s) orderable: 1-4
Parallel: no
Primary Cache: 64KBI + 64KBD/core
Secondary Cache: 1024KB (I+D)/core
L3 Cache: N/A
Other Cache: N/A
Memory: 16x512 MB, DDR400 ECC Reg CL2
Disk Subsystem: SATA, Western Digital WD740GD, 74 GB 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



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Notes/Tuning Information (Continued)

```
253.perlbnk: basepeak=yes
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 -Qunroll2
300.twolf:   -fast -arch:SSE2 +FDO -Qunroll3 shlw32m.lib -Qansi_alias
```

The system under test can be built using a SSI MEB case and an Enermax EPS 12V ATX-6ES 660W power supply. All memory slots populated on all CPU(s).

BIOS Rev E 1.03

'start /b /wait /affinity' command is used to bind CPU(s) to processes.