



CINT2000 Result

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Velocity Micro

Gamer's Edge DualX, AMD Athlon(TM) 64 X2 4800+

SPECint_rate2000 = 38.0

SPECint_rate_base2000 = 33.4

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	121	26.9	2	106	30.6
175.vpr	2	132	24.5	2	107	30.5
176.gcc	2	90.0	28.4	2	62.9	40.6
181.mcf	2	212	19.7	2	157	26.6
186.crafty	2	61.3	37.9	2	58.6	39.6
197.parser	2	121	34.5	2	121	34.4
252.eon	2	58.7	51.4	2	52.3	57.7
253.perlbnk	2	101	41.5	2	99.3	42.0
254.gap	2	71.9	35.5	2	71.9	35.5
255.vortex	2	82.9	53.2	2	77.5	56.9
256.bzip2	2	120	28.9	2	116	30.0
300.twolf	2	201	34.6	2	155	44.9

Hardware

CPU: AMD Athlon(TM) 64 X2 Dual Core 4800+ (939-pin)
CPU MHz: 2400
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, Mushkin DDR400 CL2
Disk Subsystem: SATA, 232 GB
Other Hardware: None

Software

Operating System: Microsoft Windows XP Home Edition SP2
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

Tested by Advanced Micro Devices

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



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Notes/Tuning Information (Continued)

```
253.perlbnk: -O3 -Qipo -QxW +FDO
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
Mushkin HP3200 memory used in Dual Channel configuration.
Memory timings manually set in BIOS: CAS=2, Trc=12, 1T/2T Memory Timings=1T
BIOS rev 1014
```