CINT2000 Result

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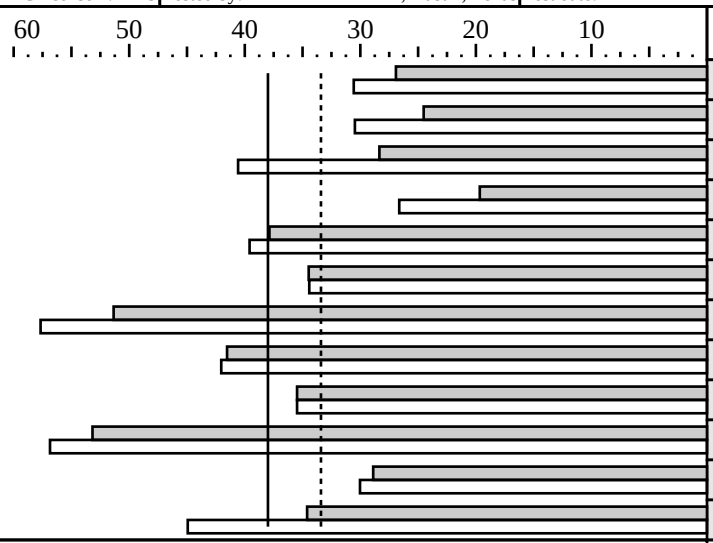
Velocity Micro

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.perlbmk	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.perlbmk:  -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.perlbmk:  -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
```