### Advanced Micro Devices

**TYAN S2865 K8E Tomcat, AMD Opteron (TM) 150**

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**CINT2000 Result**

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Reference Time</th>
<th>Base Runtime</th>
<th>Base Ratio</th>
<th>Runtime</th>
<th>Ratio</th>
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<td>3000</td>
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<td>1685</td>
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<td>1935</td>
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</tbody>
</table>

**Hardware**

- **CPU:** AMD Opteron (TM) 150 (939-pin)
- **CPU MHz:** 2400
- **FPU:** Integrated
- **CPU(s) enabled:** 1 core, 1 chip, 1 core/chip
- **CPU(s) orderable:** 1
- **Parallel:** No
- **Primary Cache:** 64KBI + 64KBD on chip
- **Secondary Cache:** 1024KB(I+D) on chip
- **L3 Cache:** N/A
- **Other Cache:** N/A
- **Memory:** 4x512 MB DDR400 CL2.0
- **Disk Subsystem:** SATA, Western Digital WD740GD, 10000 rpm
- **Other Hardware:** None

**Software**

- **Operating System:** Microsoft Windows XP Pro SP2
- **Compiler:** Intel C++ 8.0 build 20040714Z
- **File System:** NTFS
- **System State:** Default

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**Notes/Tuning Information**

shlw32M7.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_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
- **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- -Qiop
- **252.eon:** -fast -arch:SSE2 +FDO -Qansi_alias
- **253.perlbmk:** basepeak=yes

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| SPECint2000 = 1696  |
| SPECint_base2000 = 1601 |

Notes/Tuning Information (Continued)

254.gap:       basepeak=yes
255.vortex:    -fast -arch:SSE +FDO -Oi- sh1W32M7.lib
                -Qoption,c,-ip_nin1_max_stats=2000,-ip_nin1_max_total_stats=4500
256.bzip2:     -fast -Qunroll12
300.twolf:     -fast -arch:SSE2 +FDO -Qunroll13 sh1W32M7.lib -Qansi_alias

The tested system can be assembled using a standard ATX footprint, an Antec True 550 Watt EPS12V power supply, and a PCI or PCIe graphics card. All memory slots were populated with Corsair CMX512-3200XL. Memory timings manually set in BIOS: CAS=2, TRCD=2, TRAS=5, TRP=2. BIOS version 1.01