## CINT2000 Result

**Advanced Micro Devices**

**TYAN Tomcat K8E (S2865), AMD Opteron (TM) 180**

**SPECint_rate2000 = 37.5**

**SPECint_rate_base2000 = 35.0**

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Base Copies</th>
<th>Base Runtime</th>
<th>Base Ratio</th>
<th>Copies</th>
<th>Runtime</th>
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<tr>
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<td>2</td>
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<td>30.4</td>
</tr>
<tr>
<td>175.vpr</td>
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<td>30.4</td>
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<td>30.4</td>
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<td>181.mcf</td>
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<td>242</td>
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<td>189</td>
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<tr>
<td>186.crafty</td>
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<td>197.parser</td>
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<td>121</td>
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<td>252.eon</td>
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</tbody>
</table>

### Hardware
- **CPU:** AMD Opteron (TM) 180 (939-pin)
- **CPU MHz:** 2400
- **FPU:** Integrated
- **CPU(s) enabled:** 2 cores, 1 chip, 2 cores/chip
- **CPU(s) orderable:** 1
- **Primary Cache:** 64KBI + 64KBD/core
- **Secondary Cache:** 1024KB (I+D)/core
- **L3 Cache:** N/A
- **Memory:** 4x512 MB, DDR400 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
- **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: -Dalocca_alloc /F10000000
186.crafty: -DNT_i386
253.perlbmk: -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 -Qunroll13
181.mcf: -fast -QaxN +FDO
186.crafty: -fast -arch:SSE2 +FDO -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
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
```

Standard Performance Evaluation Corporation
info@spec.org
http://www.spec.org
Advanced Micro Devices  
TYAN Tomcat K8E (S2865), AMD Opteron (TM) 180  

**CINT2000 Result**  

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

**Notes/Tuning Information (Continued)**

253.perlbmk: basepeak=yes  
254.gap: basepeak=yes  
255.vortex: -fast -arch:SSE +FDO -Oi- shlW32M.lib  
-Option,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 tested system can be built using a standard ATX case and an Antec True 550W EPS12V power supply.  
All memory slots populated on all CPU(s).  
BIOS Version 2.01  
'start /b /wait /affinity' command was used to bind CPU(s) to processes.