# CINT2000 Result

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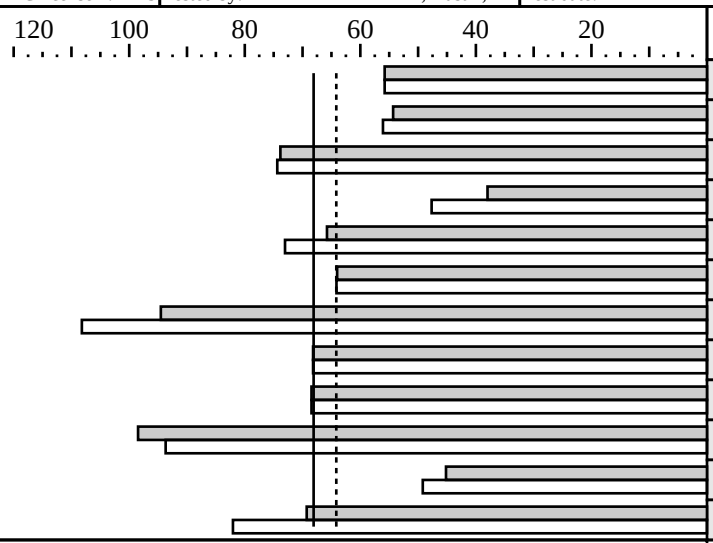
## Advanced Micro Devices

TYAN S2895 Thunder K8WE, AMD Opteron (TM) 275

SPECint_rate2000 = 68.1

SPECint_rate_base2000 = 64.2

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




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 164.gzip | 4 | 116 | 55.8 | 4 | 116 | 55.8 |
| 175.vpr | 4 | 120 | 54.3 | 4 | 116 | 56.1 |
| 176.gcc | 4 | 69.1 | 73.8 | 4 | 68.6 | 74.4 |
| 181.mcf | 4 | 220 | 38.0 | 4 | 175 | 47.7 |
| 186.crafty | 4 | 70.5 | 65.8 | 4 | 63.5 | 73.0 |
| 197.parser | 4 | 130 | 64.0 | 4 | 130 | 64.1 |
| 252.eon | 4 | 63.8 | 94.5 | 4 | 55.8 | 108 |
| 253.perlbmk | 4 | 123 | 68.2 | 4 | 123 | 68.2 |
| 254.gap | 4 | 74.6 | 68.5 | 4 | 74.6 | 68.5 |
| 255.vortex | 4 | 89.5 | 98.5 | 4 | 94.1 | 93.7 |
| 256.bzip2 | 4 | 154 | 45.2 | 4 | 141 | 49.2 |
| 300.twolf | 4 | 201 | 69.3 | 4 | 170 | 82.0 |

### Hardware

| | |
|---|---|
| CPU: | AMD Opteron (TM) 275 |
| CPU MHz: | 2200 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 2 chips, 2 cores/chips |
| CPU(s) orderable: | 1-2 |
| Parallel: | No |
| Primary Cache: | 64KBI + 64KBD/core |
| Secondary Cache: | 1024KB(I+D)/core |
| L3 Cache: | N/A |
| Other Cache: | N/A |
| Memory: | 8x512 MB PC3200 CL2.5 ECC Reg |
| Disk Subsystem: | SATA, Western Digital WD740GD, 10000 RPM |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Microsoft Windows Server 2003 Enterprise Edition SP1 |
| Compiler: | Intel C++ 8.0 build 20040714Z<br>Microsoft Visual Studio .NET 7.0.9466 (libraries)<br>MicroQuill Smartheap Library 7.0 |
| File System: | NTFS |
| System State: | Default |

## 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_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.perlbmk:  basepeak=yes
 254.gap:      basepeak=yes
 255.vortex:   -fast -arch:SSE  +FDO -Oi- shlW32M7.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 shlW32M7.lib -Qansi_alias
Bios Rev 1.00.2895
The start /b /wait /affinity command is used to bind CPU(s) to processes.
The tested system can be assembled using the SSI EEB v3.5 footprint, an
Antec True 550 EPS12V 550W power supply, and a PCI-e graphics card.
```