# CINT2000 Result

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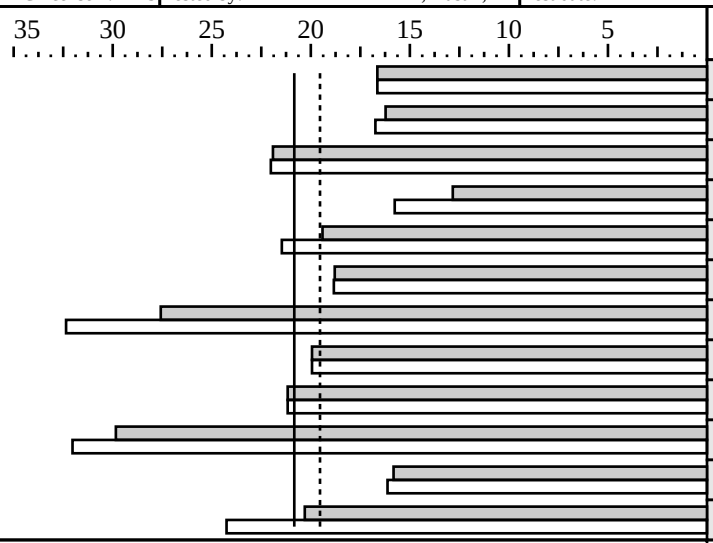
## Advanced Micro Devices

TYAN Thunder K8S Pro S2882, AMD Opteron (TM) 252

SPECint_rate2000 = 20.8

SPECint_rate_base2000 = 19.5

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Feb-2005 | Hardware Avail: Feb-2005 | Software Avail: Oct-2004




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 164.gzip | 1 | 97.6 | 16.6 | 1 | 97.6 | 16.6 |
| 175.vpr | 1 | 100 | 16.2 | 1 | 97.0 | 16.7 |
| 176.gcc | 1 | 58.2 | 21.9 | 1 | 58.0 | 22.0 |
| 181.mcf | 1 | 163 | 12.8 | 1 | 132 | 15.8 |
| 186.crafty | 1 | 59.8 | 19.4 | 1 | 54.0 | 21.5 |
| 197.parser | 1 | 111 | 18.8 | 1 | 111 | 18.8 |
| 252.eon | 1 | 54.7 | 27.6 | 1 | 46.6 | 32.4 |
| 253.perlbmk | 1 | 105 | 19.9 | 1 | 105 | 19.9 |
| 254.gap | 1 | 60.3 | 21.2 | 1 | 60.3 | 21.2 |
| 255.vortex | 1 | 73.9 | 29.8 | 1 | 68.8 | 32.0 |
| 256.bzip2 | 1 | 110 | 15.8 | 1 | 108 | 16.1 |
| 300.twolf | 1 | 171 | 20.3 | 1 | 143 | 24.3 |

### Hardware

| | |
|---|---|
| CPU: | AMD Opteron (TM) 252 |
| CPU MHz: | 2600 |
| 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 PC3200 (Kingston) CL2.5 ECC Reg |
| Disk Subsystem: | IDE, Western Digital WD2000JB, 7200 rpm |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Microsoft Windows Server 2003, Enterprise Edition |
| 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 v3.E
The tested system can be assembled using an Extended ATX footprint
ANTEC True 550Watt EPS12V power supply
```