



# CINT2000 Result

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## Advanced Micro Devices

Pogo Linux PerformanceWare 3566, AMD Opteron (TM) 865

SPECint\_rate2000 = 110

SPECint\_rate\_base2000 = 104

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

| Benchmark   | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip    | 8           | 144          | 90.3       | 8      | 144     | 90.3  |
| 175.vpr     | 8           | 150          | 86.4       | 8      | 145     | 89.3  |
| 176.gcc     | 8           | 88.4         | 115        | 8      | 87.5    | 117   |
| 181.mcf     | 8           | 269          | 62.1       | 8      | 221     | 75.7  |
| 186.crafty  | 8           | 87.2         | 106        | 8      | 78.6    | 118   |
| 197.parser  | 8           | 163          | 102        | 8      | 164     | 102   |
| 252.eon     | 8           | 79.4         | 152        | 8      | 68.7    | 176   |
| 253.perlbnk | 8           | 155          | 108        | 8      | 155     | 108   |
| 254.gap     | 8           | 92.6         | 110        | 8      | 92.6    | 110   |
| 255.vortex  | 8           | 116          | 152        | 8      | 116     | 152   |
| 256.bzip2   | 8           | 163          | 85.2       | 8      | 161     | 86.4  |
| 300.twolf   | 8           | 253          | 110        | 8      | 209     | 133   |

### Hardware

CPU: AMD Opteron (TM) 865  
 CPU MHz: 1800  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip  
 CPU(s) orderable: 1-4  
 Parallel: No  
 Primary Cache: 64KBI + 64KBD/core  
 Secondary Cache: 1024KB (I+D)/core  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 16x1024 MB PC3200 CL3.0 ECC Reg  
 Disk Subsystem: SCSI, Seagate Cheetah Ultra320  
 ST373307LC, 10000 RPM  
 Other Hardware: None

### Software

Operating System: Microsoft Windows Server 2003 Enterprise Edition SP1  
 Compiler: Intel C++ 8.0 build 20040714Z  
 Microsoft Visual Studio .NET 7.0.9466 (libraries)  
 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](http://www.microquill.com)  
 +FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_use

Portability:

176.gcc: -Dalloca=\_alloca /F10000000  
 186.crafty: -DNT\_i386  
 253.perlbnk: -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.perlbnk: basepeak=yes
254.gap:      basepeak=yes
255.vortex:   basepeak=yes
255.vortex:   basepeak=yes
256.bzip2:    -fast                               -Qunroll2
300.twolf:    -fast -arch:SSE2 +FDO             -Qunroll3 shlw32M7.lib -Qansi_alias
```

Bios Rev 2.33.1.1

All memory slots populated on all CPU(s).

Physical Address Extension (PAE) enabled.

The start /b /wait /affinity command is used to bind CPU(s) to processes.