



CINT2000 Result

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Advanced Micro Devices

Pogo Linux PerformanceWare 3566, AMD Opteron (TM) 870

SPECint_rate2000 = 122

SPECint_rate_base2000 = 115

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	130	100	8	130	100
175.vpr	8	136	95.7	8	131	98.9
176.gcc	8	78.6	130	8	78.3	130
181.mcf	8	249	67.0	8	203	82.2
186.crafty	8	78.5	118	8	70.6	131
197.parser	8	147	113	8	147	113
252.eon	8	70.4	171	8	61.8	195
253.perlbnk	8	139	120	8	139	120
254.gap	8	84.0	121	8	84.0	121
255.vortex	8	104	170	8	104	170
256.bzip2	8	148	93.9	8	146	95.1
300.twolf	8	229	122	8	188	148

Hardware

CPU: AMD Opteron (TM) 870
 CPU MHz: 2000
 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
 +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.