



CINT2000 Result

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Advanced Micro Devices

Pogo Linux, PerformanceWare 3566, AMD Opteron (TM) 852

SPECint_rate2000 = 76.1

SPECint_rate_base2000 = 71.5

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	99.6	65.2	4	99.6	65.2
175.vpr	4	112	57.8	4	110	59.0
176.gcc	4	61.7	82.7	4	61.3	83.3
181.mcf	4	238	35.0	4	197	42.4
186.crafty	4	60.4	76.9	4	54.3	85.5
197.parser	4	122	68.2	4	128	65.3
252.eon	4	55.9	108	4	46.8	129
253.perlbnk	4	109	76.5	4	109	76.5
254.gap	4	64.7	78.9	4	64.7	78.9
255.vortex	4	80.4	110	4	80.4	110
256.bzip2	4	122	57.1	4	115	60.4
300.twolf	4	182	76.6	4	144	96.8

Hardware

CPU: AMD Opteron (TM) 852
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip
 CPU(s) orderable: 1-4
 Parallel: No
 Primary Cache: 64KBI + 64KBD on chip
 Secondary Cache: 1024KB(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 16x1024 MB PC3200 (MICRON) CL3 ECC Reg
 Disk Subsystem: SCSI, Seagate Cheetah Ultra320
 ST373307LC, 10K rpm
 Other Hardware: None

Software

Operating System: Microsoft Windows Server 2003, Enterprise Edition
 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
256.bzip2:   -fast                    -Qunroll2
300.twolf:   -fast -arch:SSE2 +FDO    -Qunroll3 shlw32M7.lib -Qansi_alias
Bios Rev 2.32.3.1
All memory slots populated on all CPU(s)
Physical Address Extension (PAE) enabled
```