

Perf Tool New Features (v6.2..v6.10)

v6.2

perf-state:: metric --for-each-cgroup

perf-lock:: -L jiffies_lock,rcu_state

Intel LBR: stitching stacks of two samples

AMD Zen 4

v6.3

perf script:: -F comm,pid,cgroup

perf-lock:: -o/--lock-owner && -S/--callstack-filter



v6.4

Use BPF programs to filter samples

\$ perf record -e cycles --filter 'period > 1000' true

\$ perf ftrace latency -T __kfree_skb

v6.5

perf script:: -F ip,dsoff

perf-record:: -e mem:0x55feb98dd169:x/name=breakpoint/

perf stat::--per-cache=L2

AmpereOne core PMU

v6.6

perf-bench:: 'uprobe' benchmark

v6.7

perf-lock:: --lock-cgroup && --cgroup-filter



v6.8

perf mem record:: --filter

"Data-type profiling for perf"

\$ perf report -s type,typeoff --hierarchy --group --stdio

Initialization speedups

Zen 4 memory controller events

v6.9

perf stat:: --per-cluster

perf test:: '-p' for parallel execution

v6.10

New: 'capstone' disassembler (legacy: 'xed' and 'objdump')

Data-type profiling improvements

x86's segment, per CPU variables

AMD Zen 5 core