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Where have all the kprobes gone

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We recently suffered a case where we did not get expected count of attached kprobe hits and I realized that we don't properly keep stats of missed probes.

While this was not surprise for legacy kprobes (perf + SET_BPF ioctl) which was brought up long time ago, it's currently not possible get such stats even on kprobes created on top of bpf perf and kprobe_multi links.

Also we are missing recursion accounting of BPF layer on several places that can drop kprobe and related BPF program execution.

In this talk I'll go through all BPF related tracing probes and show where the probe can get lost and how the user can keep track of that.

Primary author: OLSA, Jiri (Isovalent)

Presenter: OLSA, Jiri (Isovalent)

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