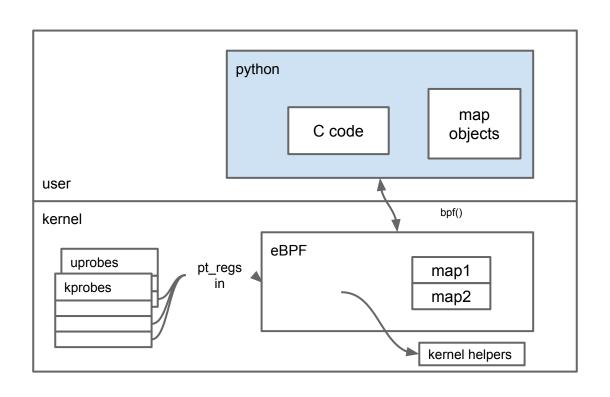
Definitions

- BPF (Berkeley Packet Filter) Bytecode interpreter inside the kernel, now widely applicable besides original topdump use case
- JIT (Just In Time) Converts BPF bytecode to native instructions
- BPF Verifier Runtime sanitizer in the kernel that guarantees safety of bytecode
- KProbe "Breakpoint" inside the kernel, can be set at nearly any function or instruction
- UProbe Generic userspace breakpoint similar to kprobe, works without gdb and friends
- Tracepoint Pre-defined kernel tracing locations, can be enabled through /sys/kernel/debug/tracing/events

IO Visor Block Diagram



Hello, World!

```
#!/usr/bin/python
from bcc import BPF
BPF(text=""void kprobe sys clone(void *ctx) {
  bpf trace printk("Hello, World!\\n");
}"").trace print()
```

Requirements

- >= 4.0 kernel
- python-bcc (github.com/iovisor/bcc)
- Kernel header files
- Don't need kernel debug symbols
- Don't need kernel sources