Registration **Execution** references int is_page_free { **Guest OS** if (page→free) **Data Structures** return false; else { int page; BPF MOV 64 r0, r1 Guest BPF JMP_IMM #04 Hyperupcall Code (C) BPF LD ABS r1, #08 BPF ALU64 IMM r3, # BPF_EXIT_INSN eBPF Bytecode Hyperupcall ge Framework e p is fr Hyperupcall Hyperupcall Table Hypervisor Registration eBPF Verifier movl \$0×ff12AB45, % addl %ecx, %eax xorl %esi, %esi movl 4(%esp), %ebx Hypervisor retl **Event** Native Code eBPF JIT Compiler (Memory Pressure)