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1 BPF ABI Recommended Conventions and Guidelines v1.0

This is version 1.0 of an informational document containing recommended conventions and guidelines for producing portable BPF program binaries.

1.1 Registers and calling convention

BPF has 10 general purpose registers and a read-only frame pointer register, all of which are 64-bits wide.

The BPF calling convention is defined as:

- R0: return value from function calls, and exit value for BPF programs
- R1 - R5: arguments for function calls
- R6 - R9: callee saved registers that function calls will preserve
- R10: read-only frame pointer to access stack

R0 - R5 are scratch registers and BPF programs needs to spill/fill them if necessary across calls.