

Name

BPFTOOL – tool for inspection and simple manipulation of eBPF programs and maps

SYNOPSIS

bpftool [*OPTIONS*] *OBJECT* { *COMMAND* | **help** }

bpftool batch file *FILE*

bpftool version

OBJECT := { **map** | **prog** | **link** | **cgroup** | **perf** | **net** | **feature** | **btf** | **gen** | **struct_ops** | **iter** }

OPTIONS := { { **-V** | **--version** } | { **-j** | **--json** } [{ **-p** | **--pretty** }] | { **-d** | **--debug** } }

MAP-COMMANDS := { **show** | **list** | **create** | **dump** | **update** | **lookup** | **getnext** | **delete** | **pin** | **event_pipe** | **help** }

PROG-COMMANDS := { **show** | **list** | **dump jited** | **dump xlated** | **pin** | **load** | **attach** | **detach** | **help** }

LINK-COMMANDS := { **show** | **list** | **pin** | **detach** | **help** }

CGROUP-COMMANDS := { **show** | **list** | **attach** | **detach** | **help** }

PERF-COMMANDS := { **show** | **list** | **help** }

NET-COMMANDS := { **show** | **list** | **help** }

FEATURE-COMMANDS := { **probe** | **help** }

BTF-COMMANDS := { **show** | **list** | **dump** | **help** }

GEN-COMMANDS := { **object** | **skeleton** | **min_core_btf** | **help** }

STRUCT-OPS-COMMANDS := { **show** | **list** | **dump** | **register** | **unregister** | **help** }

ITER-COMMANDS := { **pin** | **help** }

DESCRIPTION

bpftool allows for inspection and simple modification of BPF objects on the system.

Note that format of the output of all tools is not guaranteed to be stable and should not be depended upon.

OPTIONS

-h, --help

Print short help message (similar to **bpftool help**).

-V, --version

Print bpftool's version number (similar to **bpftool version**), the number of the libbpf version in use, and optional features that were included when bpftool was compiled. Optional features include linking against LLVM or libbfd to provide the disassembler for JIT-ted programs (**bpftool prog dump jited**) and usage of BPF skeletons (some features like **bpftool prog profile** or showing pids associated to BPF objects may rely on it).

-j, --json

Generate JSON output. For commands that cannot produce JSON, this option has no effect.

-p, --pretty

Generate human-readable JSON output. Implies **-j**.

-d, --debug

Print all logs available, even debug-level information. This includes logs from libbpf as well as from the verifier, when attempting to load programs.

-m, --mapcompat

Allow loading maps with unknown map definitions.

-n, --nomount

Do not automatically attempt to mount any virtual file system (such as tracefs or BPF virtual file system) when necessary.

SEE ALSO

bpf(2), **bpf-helpers(7)**, **bpftool-btf(8)**, **bpftool-cgroup(8)**, **bpftool-feature(8)**, **bpftool-gen(8)**, **bpftool-iter(8)**, **bpftool-link(8)**, **bpftool-map(8)**, **bpftool-net(8)**, **bpftool-perf(8)**, **bpftool-prog(8)**, **bpftool-struct_ops(8)**, **bpftool-token(8)**