# bcc Hacking Stuff

## Map in Map Issue

https://github.com/iovisor/bcc/issues/1318

#### The Basics

- we need a file descriptor to an inner template map
  - bcc already supports BPF\_PINNED\_MAP
  - maybe this could be useful?
- possibly should have a way to free the template map after it is created

#### Creation Flow

- 1. define inner map
- 2. lookup inner map fd by name
- 3. define outer map using attributes of inner map
- 4. maybe free inner map fd

## Important Files

- src/python/bcc/table.py
  - python objects to refer to BPF tables
  - already defines ID for hash\_of\_maps
  - still need to write the class
- src/cc/export/helpers.h
  - $-\,$  define helper macros for BPF programs
  - need to add macros for HASH OF MAPS here
- src/cc/frontends/clang/b\_frontend\_action.cc
  - rewriter stuff (see palmtenor's issue above)
- maybe more

## Some Diffs That Might Be Useful

- add btf support for maps
- add support for devmap (this seems to be cc API exclusive but could still be useful)
- add lru hash and lru per cpu hash
- add devmap and cpumap (this is probably the most helpful so far)