Look into source code

1. Where it start? we can find the initialize function in pblk-init.c. The initialize function is pblk init

```
f* physical block device target */
static struct nvm_tgt_type tt_pblk = {
                                = pblk",
= {1, 0, 0}.
           . dame
           .verston
                                  = pblk_make_rq,
            .make_rq
                                  = pblk_capacity,
           .capacity
                                  pblk_init,pblk_exit,
           .tntt
            .exit
           .sysfs_init
.sysfs_exit
                                 pblk_sysfs_init,pblk_sysfs_exit,THIS_HODULE,
            JOHNSON
93.
static int __init pblk_module_init(vold)
           int ret:
           pblk_bio_set = bioset_create(BIO_POOL_SIZE, 0, 0);
           if ([pblk_bto_set)
                       return -ENOMERS
           ret - nvm_register_tgt_type(&tt_pblk);
            if (ret)
                      bloset_free(pblk_blo_set);
           return ret;
static void pblk_module_exit(void)
           bloset_free(pblk_blo_set);
mm_unregister_tgt_type(&tt_pblk);
module_init(pblk_module_init);
module_exit(pblk_module_exit);
MODULE_AUTHOR("Javier Gonzalez «javier@cnexlabs.com»");
MODULE_AUTHOR("Hatlas Bjorling «matlas@cnexlabs.com»");
MODULE_LICENSE("GPL vz");
MODULE_LESCRIPTION("Physical Block-Device for Open-Channel 550s");
```

- 2. When does gc start?
 - a. It starts at pblk-init.

b. at the pblk_gc_ init it starts several thread for garbage collection

- 3. what is pblk gc ts
 - a. main thread for garbage collection
 - b. when gc operate
 - i. gc is activate & free block in under the threshold
 - ii. read inflight gc is lower than PBLK GC L QD
 - 1. inflight gc seems to be a parallel unit.
- Overall Sequence of GC
 - a. Get victim line
 - b. Change line state(to PBLK_LINESTATE_GC)
 - c. delete from linelist
 - d. add the line into r list maybe ready list
 - e. increase read_inflight_gc
 - f. pblk_gc_reader_kick
 - gc reader ts
 - ii. pblk_gc_reader_ts → it is a thread
 - iii. pblk_gc_read
 - g. pblk_gc_should_run

. . . .

there is some more sequence, I think that it move the victim line into wright buffer. after write the data just decrement the reference count of the target line.

5. what is BIO

https://lwn.net/Articles/26404/