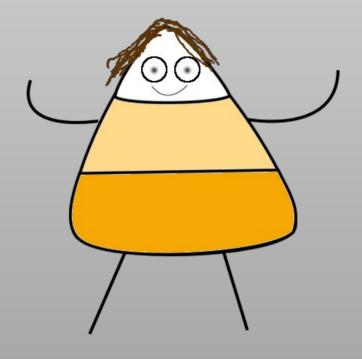
Hacking the Kernel, Hacking Myself

My experiences as an intern with the Gnome Outreach Program for Women

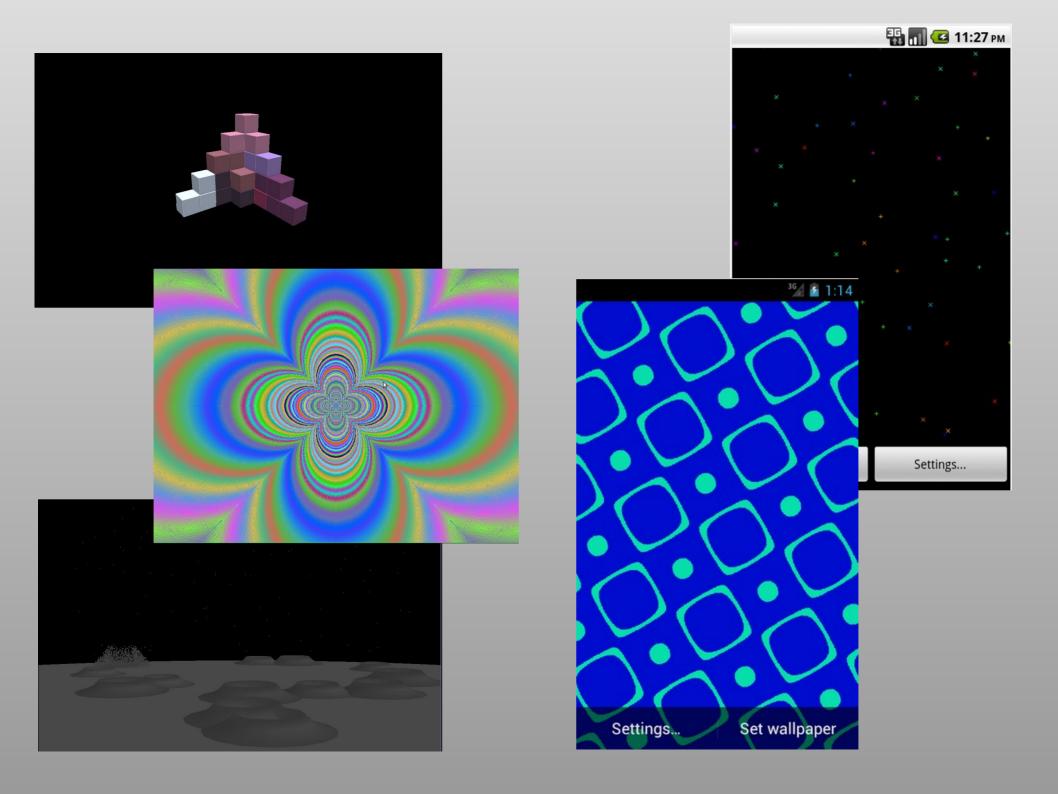


It's not just learning to code, it's learning about yourself.

Leveling Up



Bullseye



<snarky comment deleted>

Surprise:

I'm Stubbornly Independent

FREE & OPEN SOURCE SOFTWARE Outreach Program for Women Internships

LOOKING FOR AN INTERNSHIP MAY - AUGUST 2014?

MAKE A DIFFERENCE!

Support software freedom!



LINUX FOUNDATION

Solution:

Get Involved in a Formal Program

Make a small contribution...

```
// Function: foobles
// Parameters: int foo, char ** bar
// Returns: int baz
// Actions: does stuff
// Side effects: none
// Author: Dwight Q. Coder
// Date: 01-01-1970
```

/* does stuff */



[PATCH] Lotsa awesome code



[PATCH] 88th Contribution from Same Person



[PATCH 8/11] Super Tricky Bug Fix



[PATCH] More Awesome Code



[PATCH 142/2378] Stuff Stuff Etc



[PATCH] My code



[PATCH] 88th Contribution from Me



[PATCH 8/11] My Patchset



[PATCH] My Awesome Code

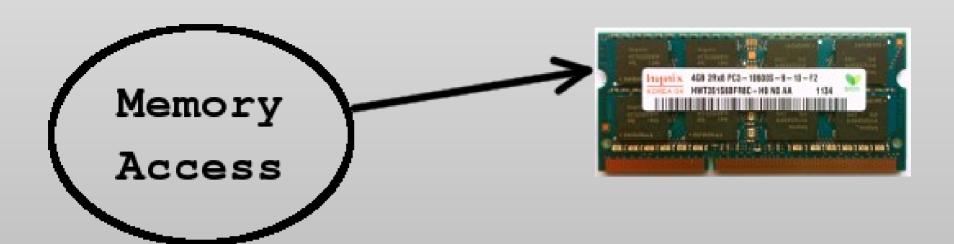


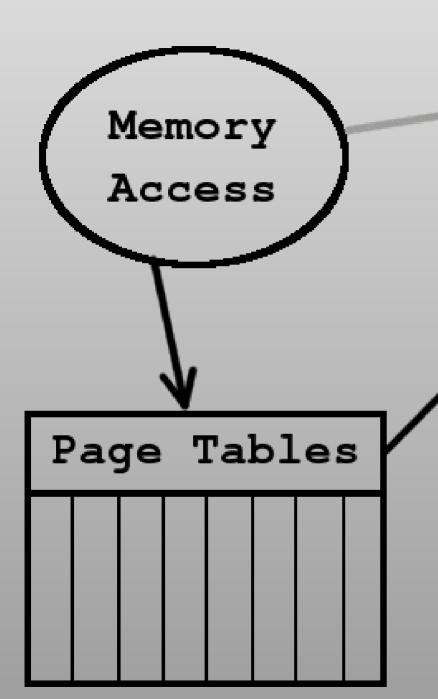
[PATCH 142/2378] My Stuff Etc

"Very nice work."

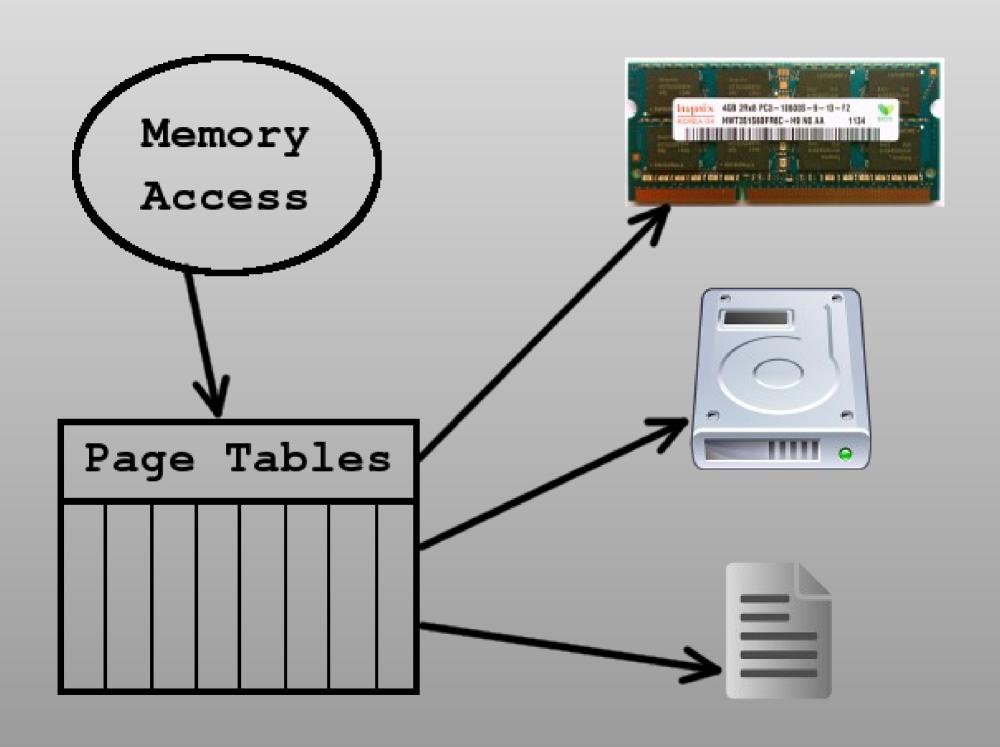
My Job:

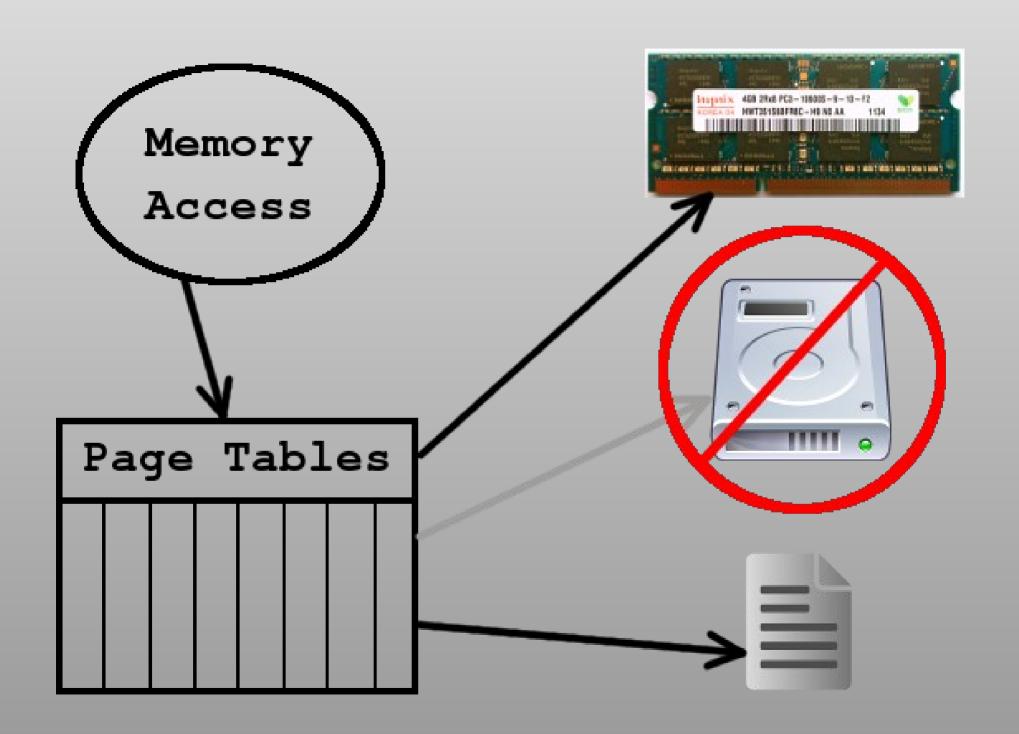
Re-write swapoff

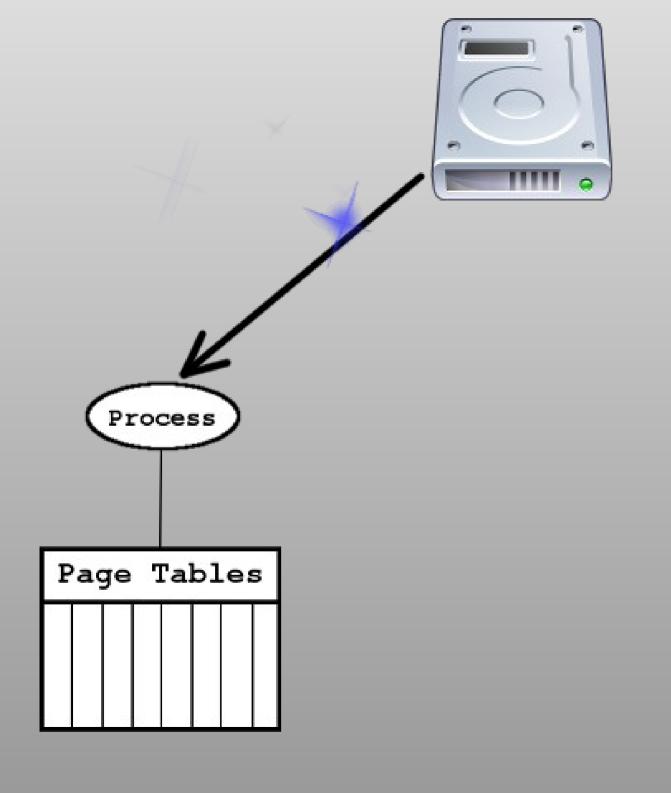


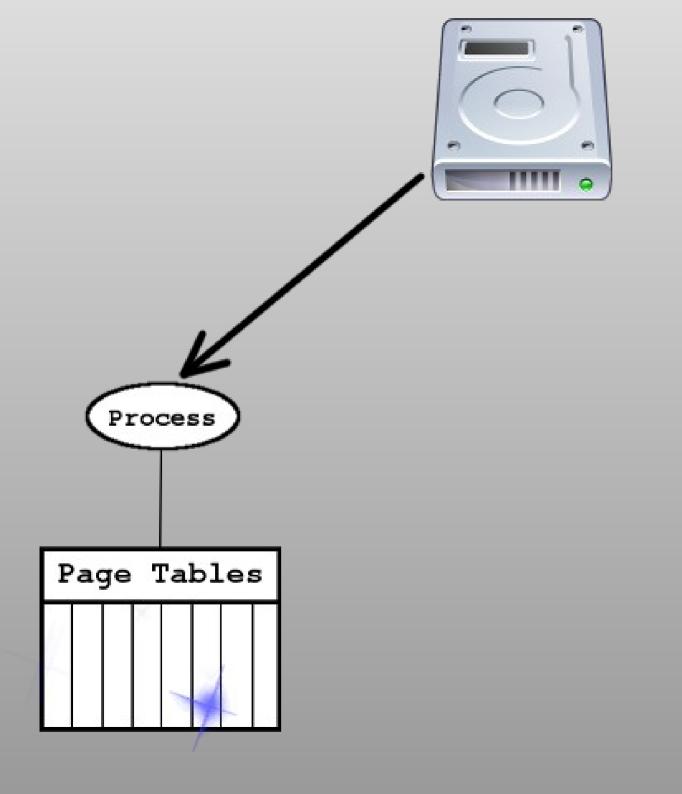


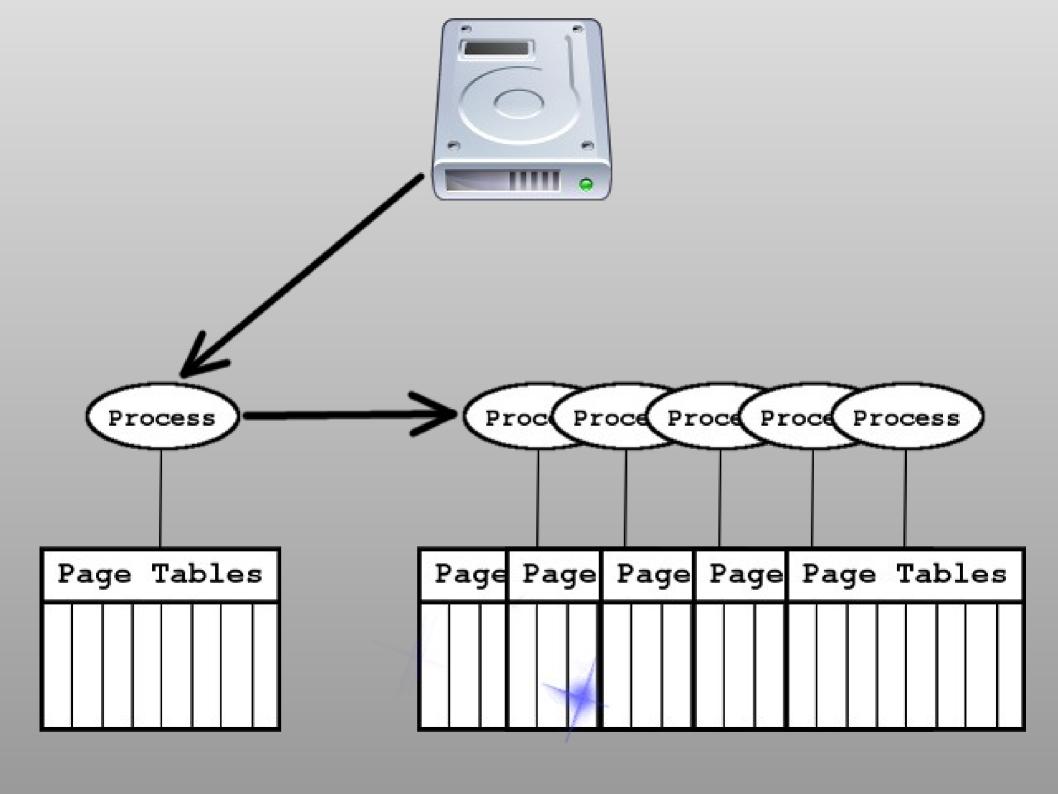


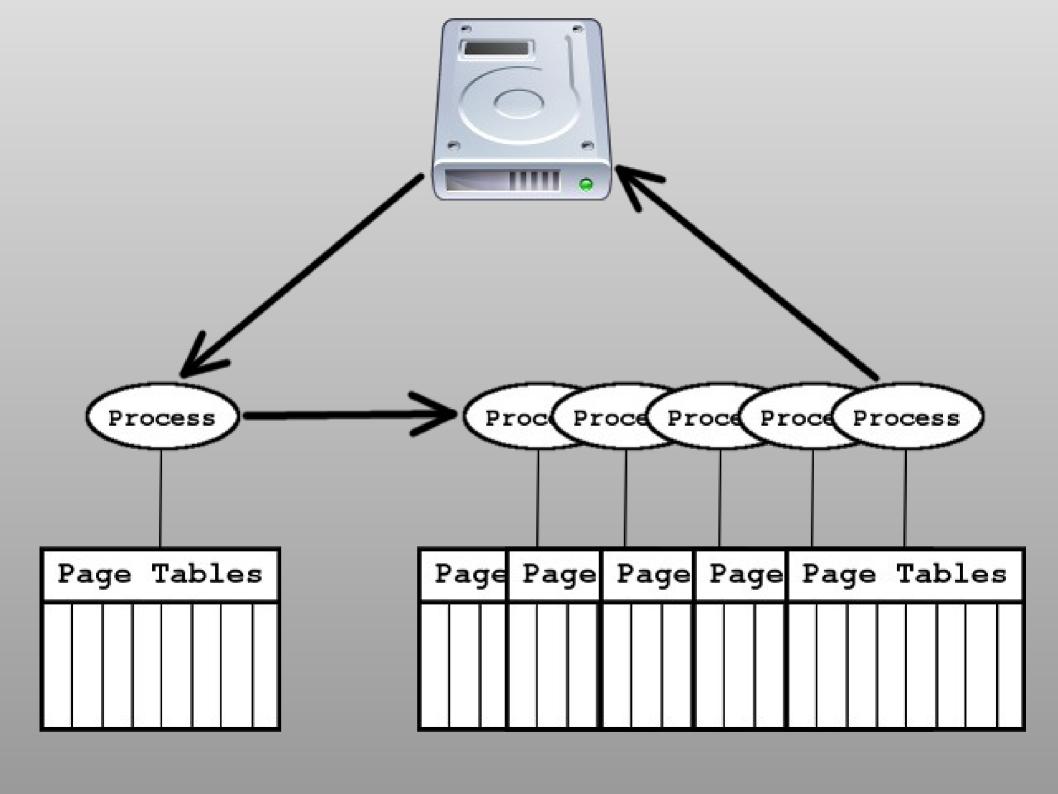


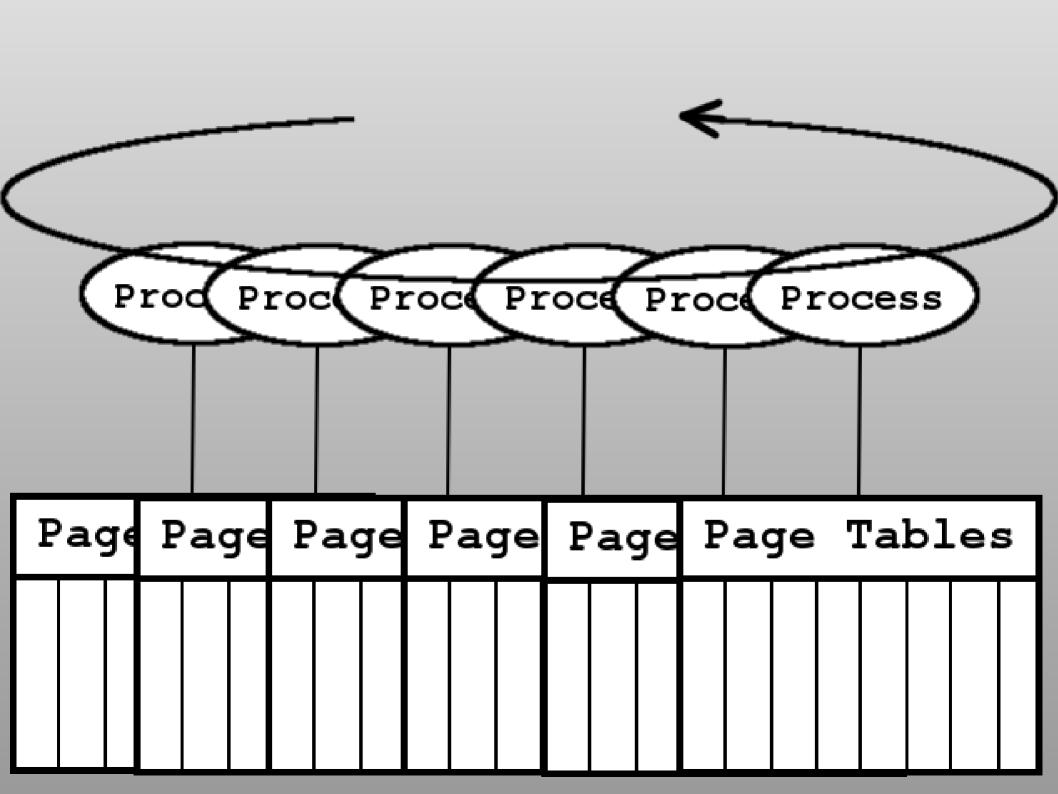


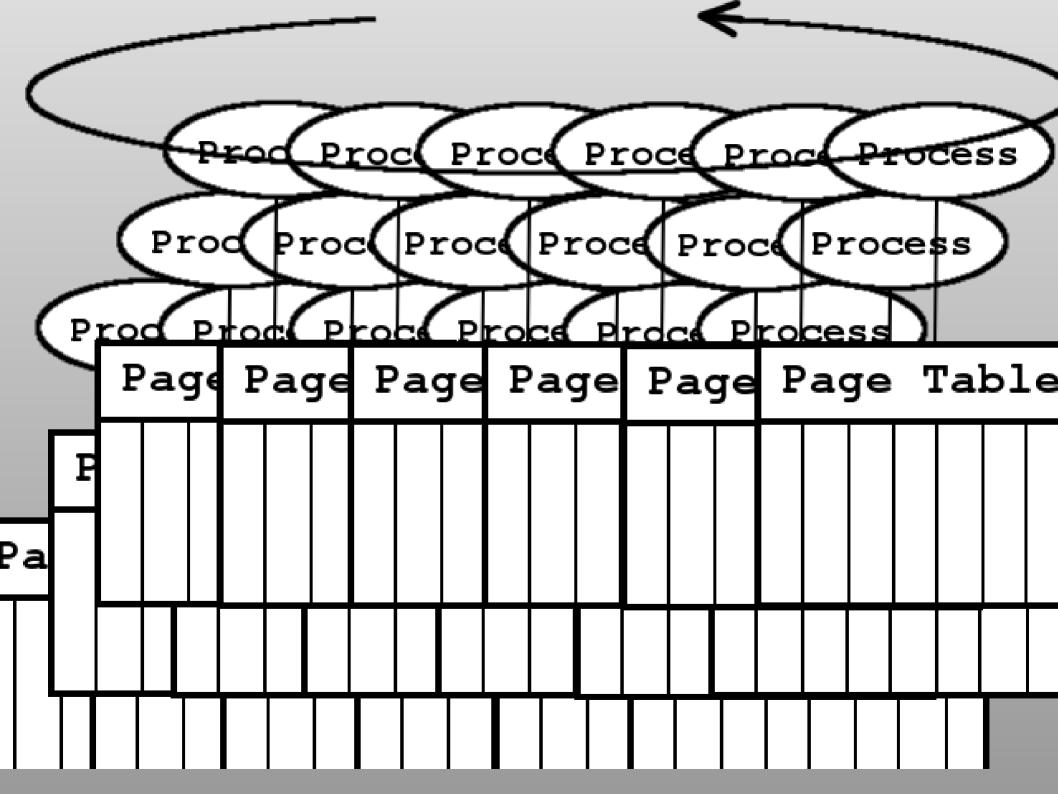




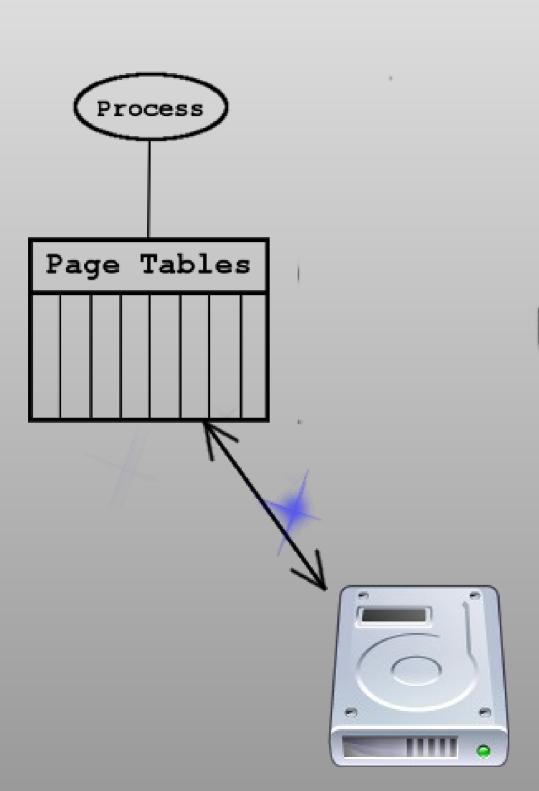


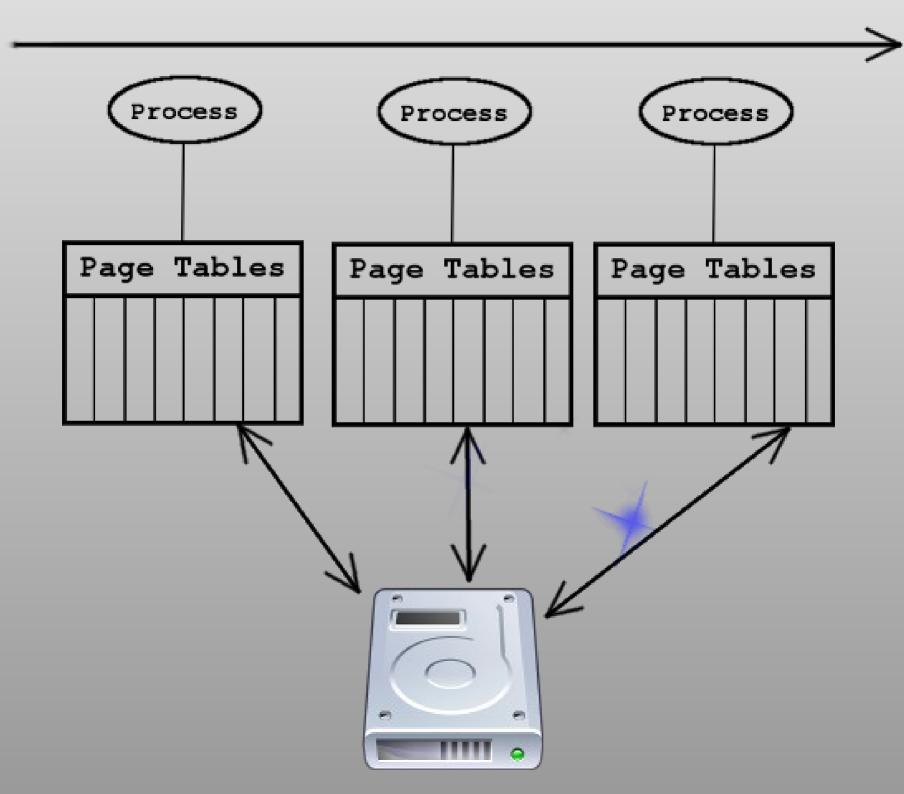






O (n²)





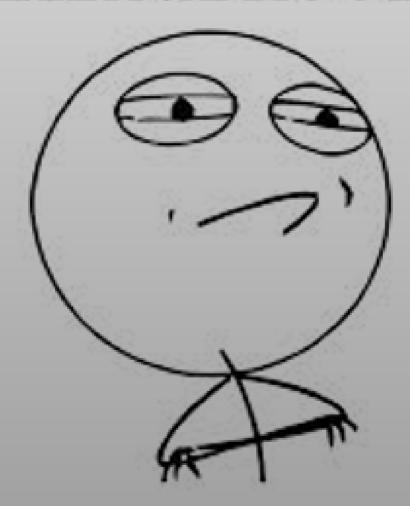
O (n)

Re-write one of the kernel's functions...

In three months, with no experience...

While refusing help...

CHALLENGE ACCEPTED



```
mem_cgroup_cache_charge(
    page, current->mm,
    GFP_KERNEL);
```

cond_resched();

```
gfp = mapping_gfp_mask(mapping);
 if (!down_read_trylock())
 &mm->mmap_sem)) {
          BUG_ON(!PageLocked(page));
 if (unlikely(maybe_same_pte(
 *pte, swp_pte))) {
       pte_offset_map(pmd, addr)
  mutex_lock(&shmem_swaplist_mutex);
```

Surprise:

I Set Impossible Goals for Myself

Solution:

Don't Let the Perfect Be the Enemy of the Good



To: Kelley



From: Kelley's OPW Mentor

Subject: Uthere?

Solution:

Accept that No One Does it Alone



From: Kelley

Subject: [RFC] Updated Swapoff



From: Kernel Developer Subject: Looks Useful



From: Famous MM Guy Subject: Some Welcome Advice



From: Kernel Developer Subject: Much Improved









Answer questions

Answer questions

Join a formal mentoring program

Answer questions

Join a formal mentoring program

Make friends

Answer questions,

make suggestions

Answer questions,

make suggestions

Draw them into the community

Answer questions, make suggestions

Draw them into the community

Lend a hand with personal obstacles

Health issues

Health issues

Toxic relationships

Health issues

Toxic relationships

Isolation

Questions?

Be Awesome:-)

gnome.org/opw

wiki.gnome.org/OutreachProgramForWomen

google-melange.com

Linuxfoundation.org

Kelley Nielsen

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@salticidsoft