

Media Device Allocator API

- Global media device instance list
- Media device is kref counted.
- Released when the last reference is gone.
- allocate, get, put struct media_device.
- Register count to keep track of media device registrations.
- Unregister is done when the last driver does unregister.
- Media device is deleted when it is unregistered (not released).

- Driver allocates – second driver gets reference.
- `media_open()` gets reference.
- `media_release()` puts reference.

- Media device should stick around until the `/dev/mediaX` is closed.
- Media device should stay registered until the last driver unregisters it.

- Issues:

- `cdev_put()` from `do_exit()` occurs after media device is released.
- `cdev_get()` tries to load owner
 - `au0828` owns `cdev`, when it goes away (`unbind/rmmod`), subsequent `/dev/mediaX` open fails