

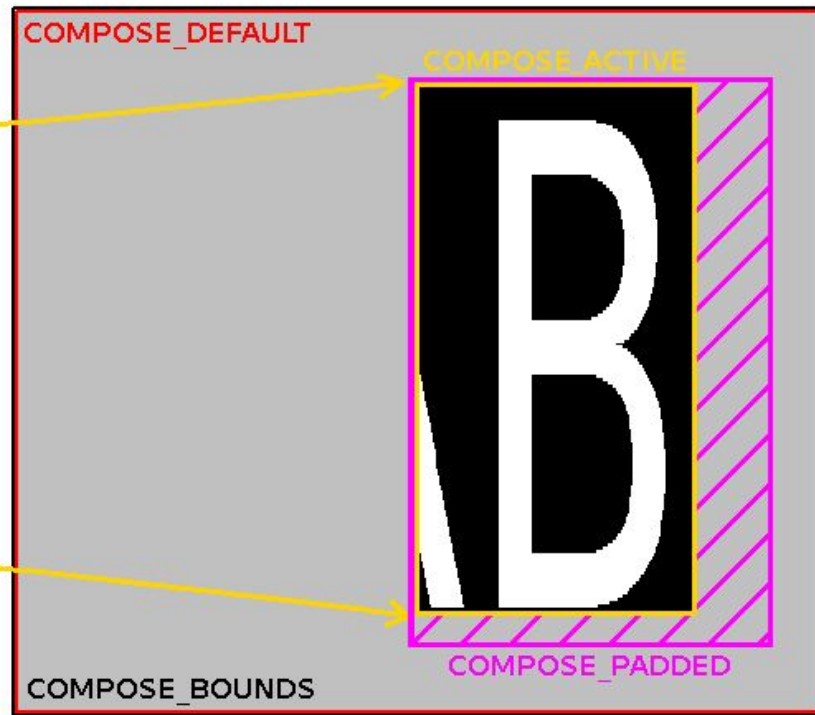
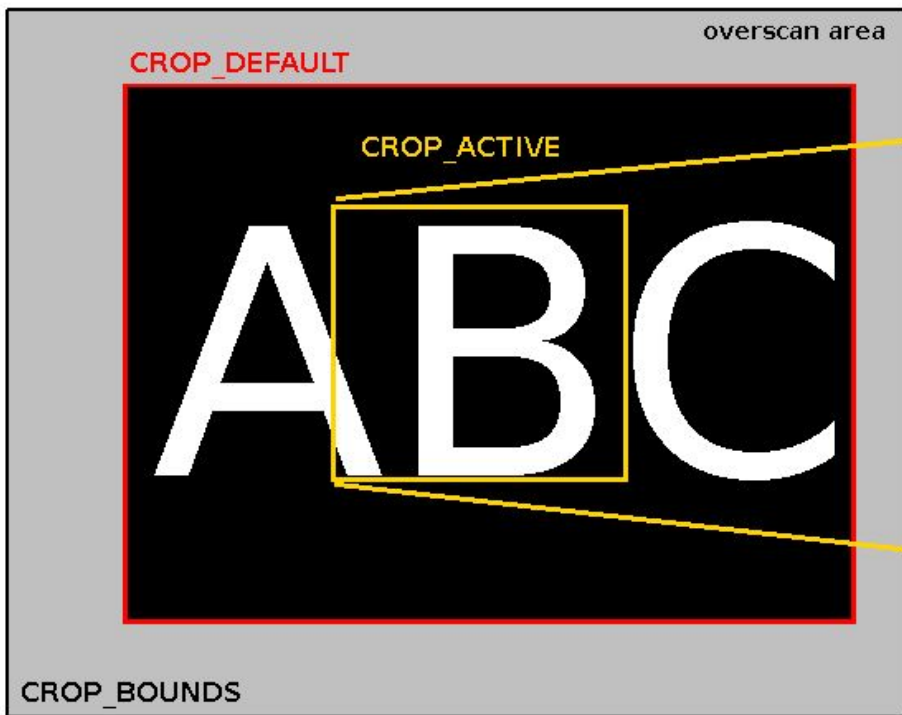
Multiple Rectangle Cropping

RFC to extend the selection API

Current Capabilities

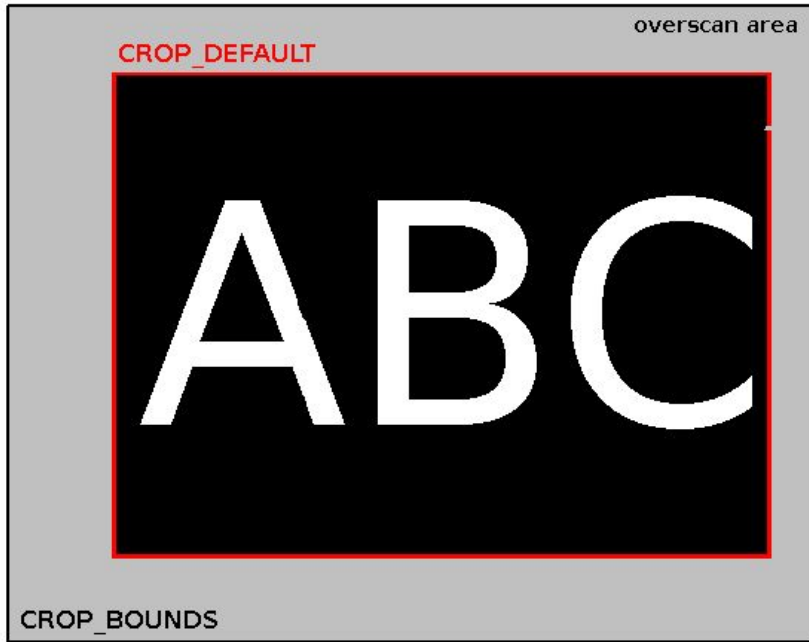
DATA SOURCE

DATA SINK

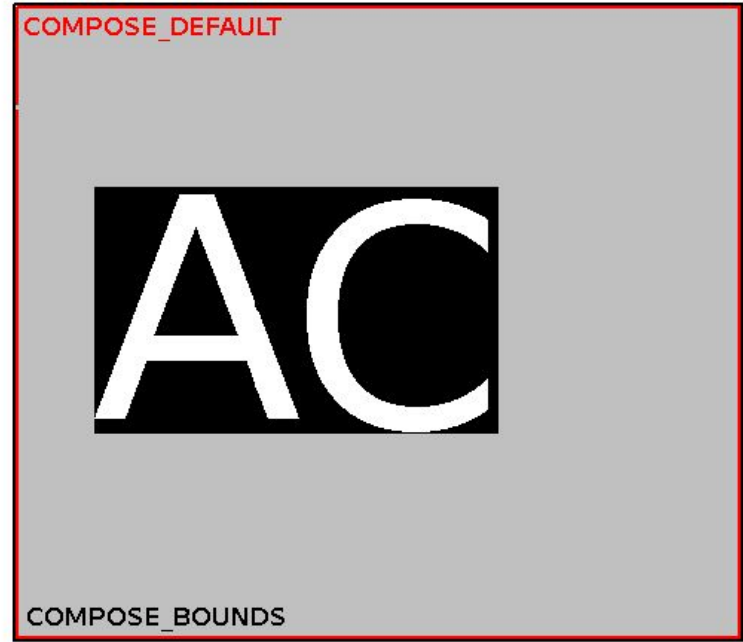


Proposed Capabilities

DATA SOURCE



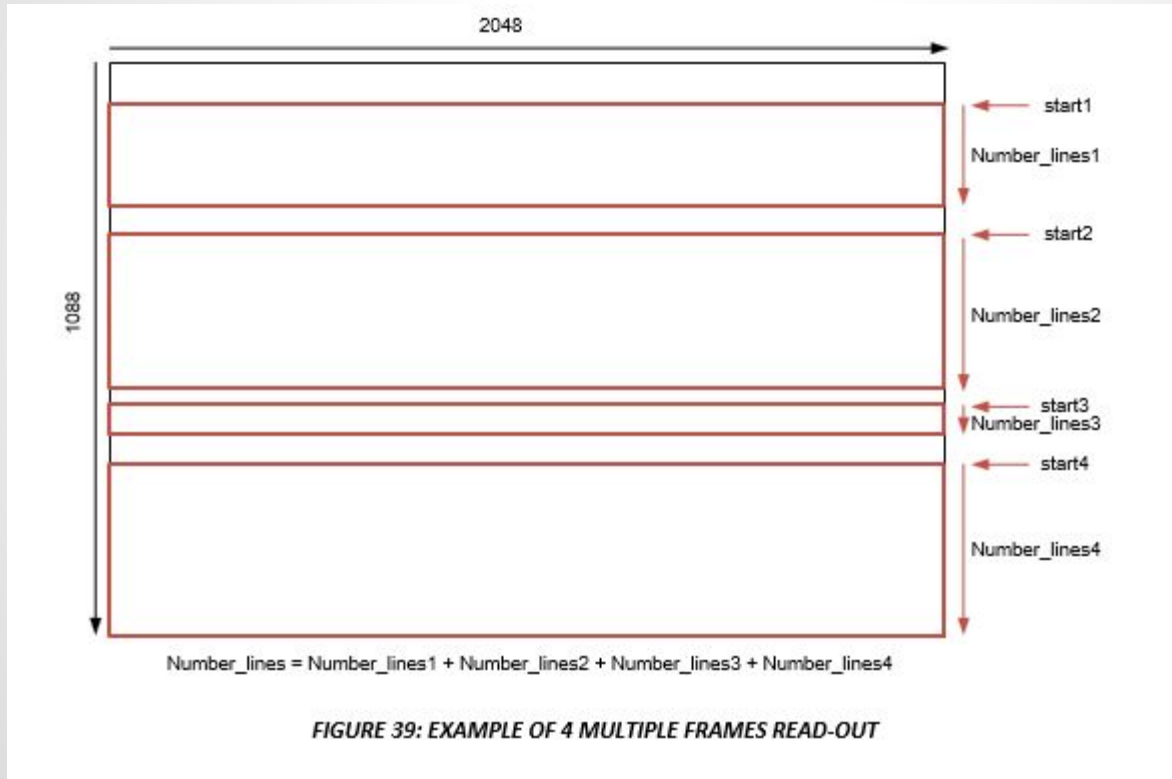
DATA SINK



Applications



Support in sensors



Why not in userland?

- Increase FPS
 - Reduce data transfer
-
- More potatoes per minute
 - More accurate speed tickets :P
 - Reduce power consumption

Latest RFC

```
struct v4l2_subdev_selection {
    __u32 pad;
    __u32 target;
    __u32 flags;
-   struct v4l2_rect r;
-   __u32 reserved[8];
+   union {
+       struct v4l2_rect r;
+       struct v4l2_ext_rect *pr;
+   };
+   __u32 rectangles;
+   __u32 reserved[7];
};
```

```
struct v4l2_ext_rect {
    __s32 left;
    __s32 top;
    __u32 width;
    __u32 height;
    __u32 reserved[4];
};
```

**+ Helpers: multi to legacy, legacy to multi
+ ioctl32**

Why v4l2_ext_rectangle?

- Opportunity to remove sign on sizes.
- Opportunity to add fields to the rectangles (ie tracking areas)

