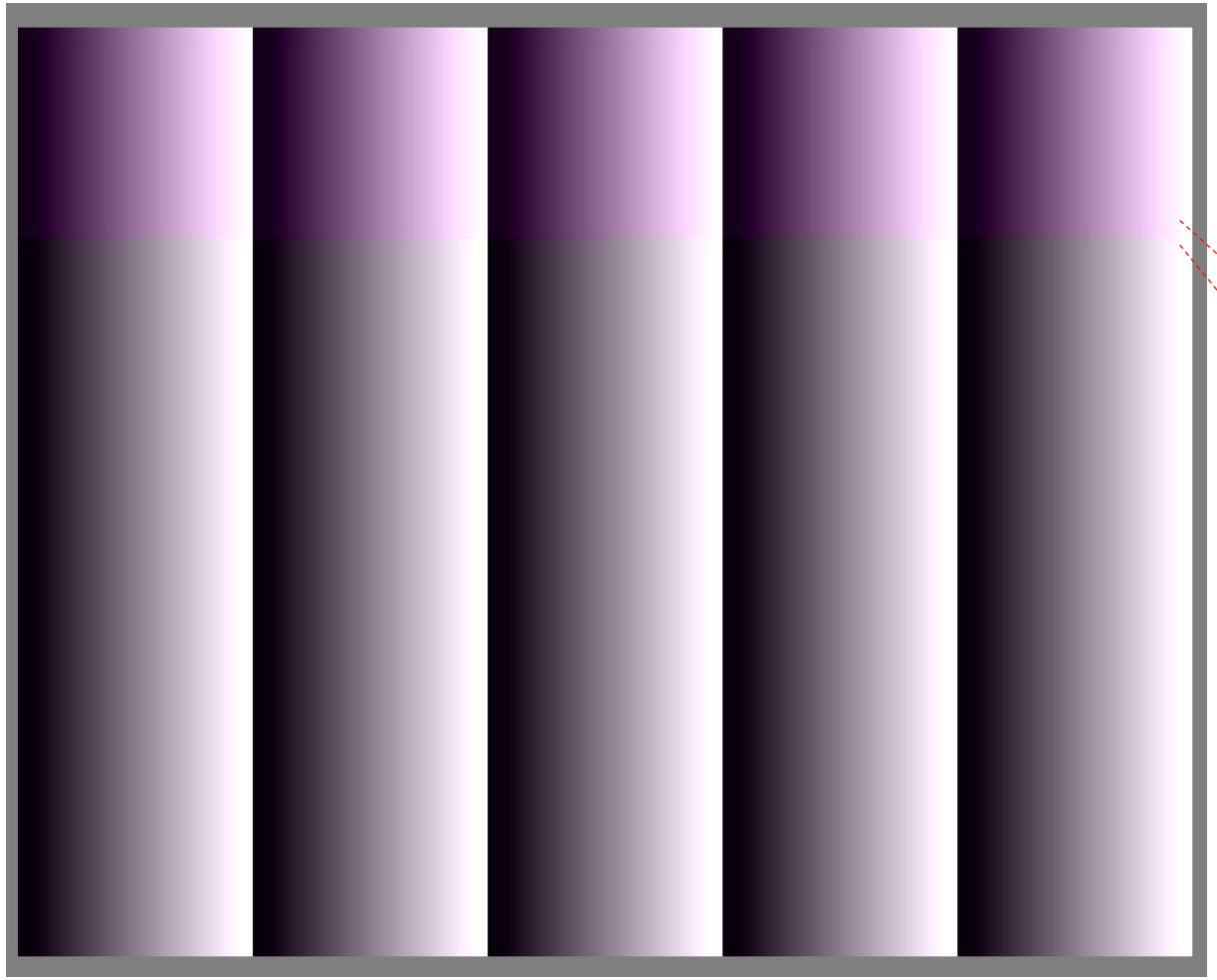
YUV 4:2:2 Image 60fps

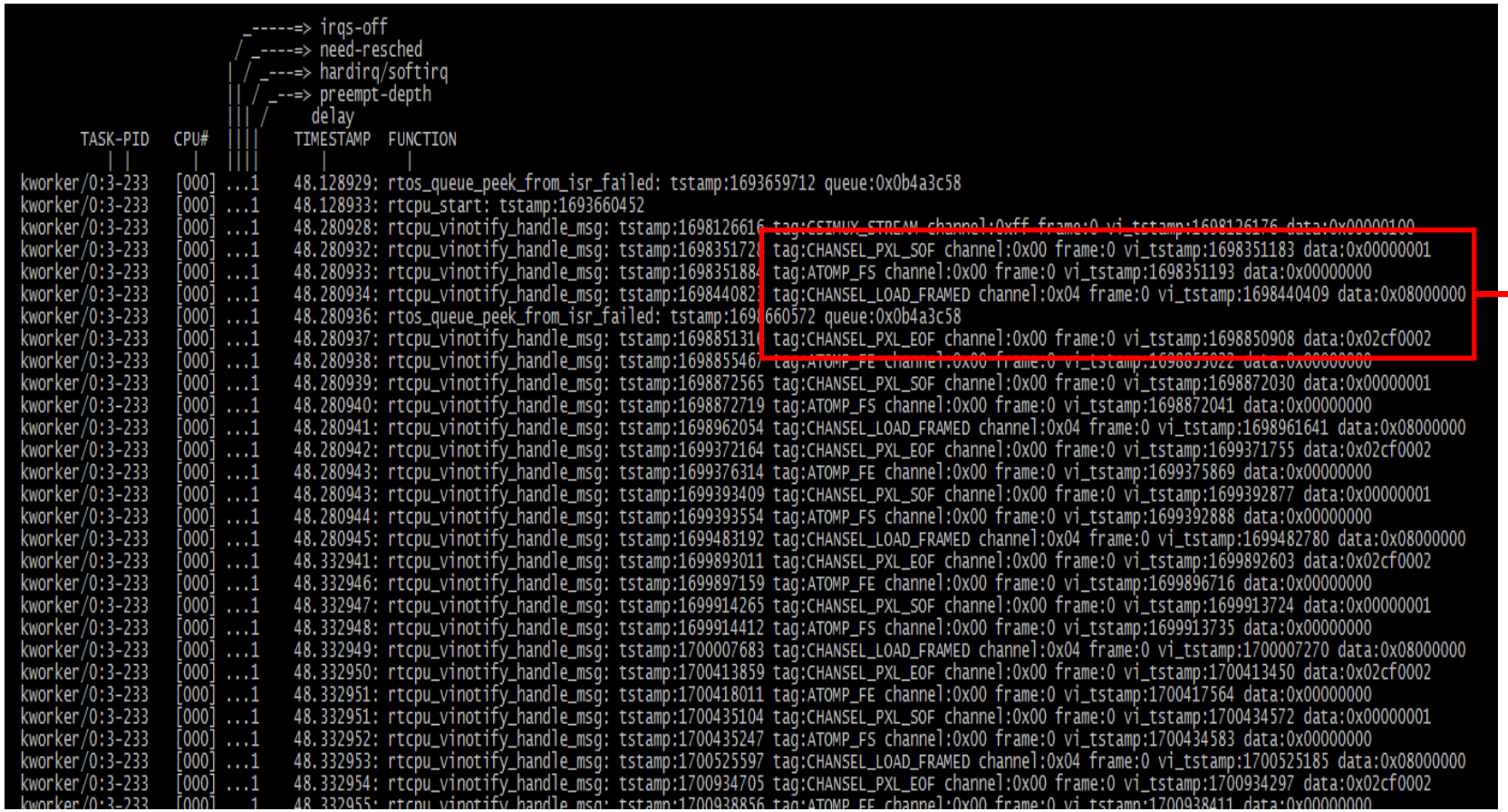


Frame Count Pixel Count

```
00066190  8D C8 8D C9 8D CA 8D CB 8D CC 8D CD 8D CE 8D CF
000661A0  8D D0 8D D1 8D D2 8D D3 8D D4 8D D5 8D D6 8D D7
000661B0  8D D8 8D D9 8D DA 8D DB 8D DC 8D DD 8D DE 8D DF
000661C0  8D E0 8D E1 8D E2 8D E3 8D E4 8D E5 8D E6 8D E7
000661D0  8D E8 8D E9 8D EA 8D EB 8D EC 8D ED 8D EE 8D EF
000661E0  8D F0 8D F1 8D F2 8D F3 8D F4 8D F5 8D F6 8D F7
000661F0  8D F8 8D F9 8D FA 8D FB 8D FC 8D FD 8D FE 8D FF
00066200  8D 00 8D 01 8D 02 8D 03 8D 04 8D 05 8D 06 8D 07
00066210  8D 08 8D 09 8D 0A 8D 0B 8D 0C 8D 0D 8D 0E 8D 0F
00066220  8D 10 8D 11 8D 12 8D 13 8D 14 8D 15 8D 16 8D 17
00066230  8D 18 8D 19 8D 1A 8D 1B 8D 1C 8D 1D 8D 1E 8D 1F
00066240  8D 20 8D 21 8D 22 8D 23 8D 24 8D 25 8D 26 8D 27
00066250  8D 28 8D 29 8D 2A 8D 2B 8D 2C 8D 2D 8D 2E 8D 2F
00066260  8D 30 8D 31 8D 32 8D 33 8D 34 8D 35 8D 36 8D 37
00066270  8D 38 8D 39 8D 3A 8D 3B 8D 3C 8D 3D 8D 3E 8D 3F
00066280  8D 40 8D 41 8D 42 8D 43 8D 44 8D 45 8D 46 8D 47
00066290  8D 48 8D 49 8D 4A 8D 4B 8D 4C 8D 4D 8D 4E 8D 4F
000662A0  8D 50 8D 51 8D 52 8D 53 8D 54 8D 55 8D 56 8D 57
000662B0  8D 58 8D 59 8D 5A 8D 5B 8D 5C 8D 5D 8D 5E 8D 5F
000662C0  8D 60 8D 61 8D 62 8D 63 8D 64 8D 65 8D 66 8D 67
000662D0  8D 68 8D 69 8D 6A 8D 6B 8D 6C 8D 6D 8D 6E 8D 6F
000662E0  8D 70 8D 71 8D 72 8D 73 8D 74 8D 75 8D 76 8D 77
000662F0  8D 78 8D 79 8D 7A 8D 7B 8D 7C 8D 7D 8D 7E 8D 7F
00066300  85 80 85 81 85 82 85 83 85 84 85 85 85 86 85 87
00066310  85 88 85 89 85 8A 85 8B 85 8C 85 8D 85 8E 85 8F
00066320  85 90 85 91 85 92 85 93 85 94 85 95 85 96 85 97
00066330  85 98 85 99 85 9A 85 9B 85 9C 85 9D 85 9E 85 9F
00066340  85 A0 85 A1 85 A2 85 A3 85 A4 85 A5 85 A6 85 A7
00066350  85 A8 85 A9 85 AA 85 AB 85 AC 85 AD 85 AE 85 AF
00066360  85 B0 85 B1 85 B2 85 B3 85 B4 85 B5 85 B6 85 B7
00066370  85 B8 85 B9 85 BA 85 BB 85 BC 85 BD 85 BE 85 BF
00066380  85 C0 85 C1 85 C2 85 C3 85 C4 85 C5 85 C6 85 C7
00066390  85 C8 85 C9 85 CA 85 CB 85 CC 85 CD 85 CE 85 CF
000663A0  85 D0 85 D1 85 D2 85 D3 85 D4 85 D5 85 D6 85 D7
000663B0  85 D8 85 D9 85 DA 85 DB 85 DC 85 DD 85 DE 85 DF
000663C0  85 E0 85 E1 85 E2 85 E3 85 E4 85 E5 85 E6 85 E7
000663D0  85 E8 85 E9 85 EA 85 EB 85 EC 85 ED 85 EE 85 EF
000663E0  85 F0 85 F1 85 F2 85 F3 85 F4 85 F5 85 F6 85 F7
000663F0  85 F8 85 F9 85 FA 85 FB 85 FC 85 FD 85 FE 85 FF
00066400  85 00 85 01 85 02 85 03 85 04 85 05 85 06 85 07
00066410  85 08 85 09 85 0A 85 0B 85 0C 85 0D 85 0E 85 0F
00066420  85 10 85 11 85 12 85 13 85 14 85 15 85 16 85 17
00066430  85 18 85 19 85 1A 85 1B 85 1C 85 1D 85 1E 85 1F
00066440  85 20 85 21 85 22 85 23 85 24 85 25 85 26 85 27
00066450  85 28 85 29 85 2A 85 2B 85 2C 85 2D 85 2E 85 2F
00066460  85 30 85 31 85 32 85 33 85 34 85 35 85 36 85 37
00066470  85 38 85 39 85 3A 85 3B 85 3C 85 3D 85 3E 85 3F
00066480  85 40 85 41 85 42 85 43 85 44 85 45 85 46 85 47
```

Diff : 8 (=8D-85)
(MMAP Buffer Size)

- Image generated for testing
  Y : Pixel count , UV : Frame count
- The bottom part of the image is the previous buffer value



```
                    _-----=> irqs-off
                   / _----=> need-resched
                  | / _---=> hardirq/softirq
                  || / _--=> preempt-depth
                  ||| /     delay
      TASK-PID   CPU#  ||||    TIMESTAMP  FUNCTION
         | |       |   ||||       |         |
kworker/0:3-233   [000] ...1    48.128929: rtos_queue_peek_from_isr_failed: tstamp:1693659712 queue:0x0b4a3c58
kworker/0:3-233   [000] ...1    48.128933: rtcpu_start: tstamp:1693660452
kworker/0:3-233   [000] ...1    48.280928: rtcpu_vinotify_handle_msg: tstamp:1698126616 tag:CSIMUX_STREAM channel:0xff frame:0 vi_tstamp:1698126176 data:0x00000100
kworker/0:3-233   [000] ...1    48.280932: rtcpu_vinotify_handle_msg: tstamp:169835172( tag:CHANSEL_PXL_SOF channel:0x00 frame:0 vi_tstamp:1698351183 data:0x00000001
kworker/0:3-233   [000] ...1    48.280933: rtcpu_vinotify_handle_msg: tstamp:169835188( tag:ATOMP_FS channel:0x00 frame:0 vi_tstamp:1698351193 data:0x00000000
kworker/0:3-233   [000] ...1    48.280934: rtcpu_vinotify_handle_msg: tstamp:169844082( tag:CHANSEL_LOAD_FRAMED channel:0x04 frame:0 vi_tstamp:1698440409 data:0x08000000
kworker/0:3-233   [000] ...1    48.280936: rtos_queue_peek_from_isr_failed: tstamp:169(660572 queue:0x0b4a3c58
kworker/0:3-233   [000] ...1    48.280937: rtcpu_vinotify_handle_msg: tstamp:169885131( tag:CHANSEL_PXL_EOF channel:0x00 frame:0 vi_tstamp:1698850908 data:0x02cf0002
kworker/0:3-233   [000] ...1    48.280938: rtcpu_vinotify_handle_msg: tstamp:169885546( tag:ATOMP_FE channel:0x00 frame:0 vi_tstamp:1698855022 data:0x00000000
kworker/0:3-233   [000] ...1    48.280939: rtcpu_vinotify_handle_msg: tstamp:1698872565 tag:CHANSEL_PXL_SOF channel:0x00 frame:0 vi_tstamp:1698872030 data:0x00000001
kworker/0:3-233   [000] ...1    48.280940: rtcpu_vinotify_handle_msg: tstamp:1698872719 tag:ATOMP_FS channel:0x00 frame:0 vi_tstamp:1698872041 data:0x00000000
kworker/0:3-233   [000] ...1    48.280941: rtcpu_vinotify_handle_msg: tstamp:1698962054 tag:CHANSEL_LOAD_FRAMED channel:0x04 frame:0 vi_tstamp:1698961641 data:0x08000000
kworker/0:3-233   [000] ...1    48.280942: rtcpu_vinotify_handle_msg: tstamp:1699372164 tag:CHANSEL_PXL_EOF channel:0x00 frame:0 vi_tstamp:1699371755 data:0x02cf0002
kworker/0:3-233   [000] ...1    48.280943: rtcpu_vinotify_handle_msg: tstamp:1699376314 tag:ATOMP_FE channel:0x00 frame:0 vi_tstamp:1699375869 data:0x00000000
kworker/0:3-233   [000] ...1    48.280943: rtcpu_vinotify_handle_msg: tstamp:1699393409 tag:CHANSEL_PXL_SOF channel:0x00 frame:0 vi_tstamp:1699392877 data:0x00000001
kworker/0:3-233   [000] ...1    48.280944: rtcpu_vinotify_handle_msg: tstamp:1699393554 tag:ATOMP_FS channel:0x00 frame:0 vi_tstamp:1699392888 data:0x00000000
kworker/0:3-233   [000] ...1    48.280945: rtcpu_vinotify_handle_msg: tstamp:1699483192 tag:CHANSEL_LOAD_FRAMED channel:0x04 frame:0 vi_tstamp:1699482780 data:0x08000000
kworker/0:3-233   [000] ...1    48.332941: rtcpu_vinotify_handle_msg: tstamp:1699893011 tag:CHANSEL_PXL_EOF channel:0x00 frame:0 vi_tstamp:1699892603 data:0x02cf0002
kworker/0:3-233   [000] ...1    48.332946: rtcpu_vinotify_handle_msg: tstamp:1699897159 tag:ATOMP_FE channel:0x00 frame:0 vi_tstamp:1699896716 data:0x00000000
kworker/0:3-233   [000] ...1    48.332947: rtcpu_vinotify_handle_msg: tstamp:1699914265 tag:CHANSEL_PXL_SOF channel:0x00 frame:0 vi_tstamp:1699913724 data:0x00000001
kworker/0:3-233   [000] ...1    48.332948: rtcpu_vinotify_handle_msg: tstamp:1699914412 tag:ATOMP_FS channel:0x00 frame:0 vi_tstamp:1699913735 data:0x00000000
kworker/0:3-233   [000] ...1    48.332949: rtcpu_vinotify_handle_msg: tstamp:1700007683 tag:CHANSEL_LOAD_FRAMED channel:0x04 frame:0 vi_tstamp:1700007270 data:0x08000000
kworker/0:3-233   [000] ...1    48.332950: rtcpu_vinotify_handle_msg: tstamp:1700413859 tag:CHANSEL_PXL_EOF channel:0x00 frame:0 vi_tstamp:1700413450 data:0x02cf0002
kworker/0:3-233   [000] ...1    48.332951: rtcpu_vinotify_handle_msg: tstamp:1700418011 tag:ATOMP_FE channel:0x00 frame:0 vi_tstamp:1700417564 data:0x00000000
kworker/0:3-233   [000] ...1    48.332951: rtcpu_vinotify_handle_msg: tstamp:1700435104 tag:CHANSEL_PXL_SOF channel:0x00 frame:0 vi_tstamp:1700434572 data:0x00000001
kworker/0:3-233   [000] ...1    48.332952: rtcpu_vinotify_handle_msg: tstamp:1700435247 tag:ATOMP_FS channel:0x00 frame:0 vi_tstamp:1700434583 data:0x00000000
kworker/0:3-233   [000] ...1    48.332953: rtcpu_vinotify_handle_msg: tstamp:1700525597 tag:CHANSEL_LOAD_FRAMED channel:0x04 frame:0 vi_tstamp:1700525185 data:0x08000000
kworker/0:3-233   [000] ...1    48.332954: rtcpu_vinotify_handle_msg: tstamp:1700934705 tag:CHANSEL_PXL_EOF channel:0x00 frame:0 vi_tstamp:1700934297 data:0x02cf0002
kworker/0:3-233   [000] ...1    48.332955: rtcpu_vinotify_handle_msg: tstamp:1700938856 tag:ATOMP_FE channel:0x00 frame:0 vi_tstamp:1700938411 data:0x00000000
```

- Start frame load before the buffer is filled with one image
- If the processor is too busy to process an image at 60 fps, the image looks like normal

- Operation Sequence
  (by tstamp)

1. SOF : Start of Frame
2. FS : Frame Start
3. LOAD : Load Frame
4. EOF : End of Frame

- Suggested Operation Sequence

1. SOF : Start of Frame
2. FS : Frame Start
3. EOF : End of Frame
4. LOAD : Load Frame