

After disabling the gpu module :

```
root@am62xx-evm:~# cat /etc/xdg/wayland/wayland.conf
[core]
idle-time=20
renderer=pixman
backend=drm-backend.so
require-input=false
require-outputs=none
log=/var/log/wayland.log
[shell]
locking=false
animation=zoom
panel-position=top
startup-animation=fade
background-image=/home/dev/taswira.jpg
background-type=scale-crop
panel-color=0x90ff0000
[libinput]
touchscreen_calibrator=true
enable-tap=true
tap-and-drag=true
[drm]
# Force software rendering - this disables GPU acceleration
use-pixman=true
cursor-theme=default
cursor-size=24
[output]
name=HDMI-A-1
mode=1920x1080
transform=normal
disable-vblank-crtc=true # Keep this for now to avoid assertion
[autolaunch]
# launch the calibrator on startup if a touchscreen is detected
path=/usr/bin/wayland
[screensaver]
# Uncomment path to disable screensaver
#path=@libexecdir@/wayland-screensaver
```

~# strace -f -o /tmp/wayland.strace wayland

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Date: 2025-05-29 UTC

[21:54:02.191] wayland 13.0.1

<https://wayland.freedesktop.org>

Bug reports to: <https://gitlab.freedesktop.org/wayland/wayland/issues/>

Build: 13.0.1

[21:54:02.192] Command line: wayland

[21:54:02.192] OS: Linux, 6.12.35-ti-00915-ge3e551586dfa, #1 SMP PREEMPT Tue Jul 1

21:17:52 UTC 2025, aarch64

[21:54:02.193] Flight recorder: enabled

[21:54:02.195] Using config file '/etc/xdg/weston/weston.ini'

[21:54:02.197] Output repaint window is 7 ms maximum.

[21:54:02.198] Loading module '/usr/lib/libweston-13/drm-backend.so'

[21:54:02.210] initializing drm backend

[21:54:02.210] Trying libseat launcher...

00:00:06.583 [c/debug/seatd/0.8.0/seatd/server.c:145] New client connected (pid: 1021, uid: 0, gid: 0)

00:00:06.583 [c/debug/seatd/0.8.0/seatd/seat.c:170] Added client 7 to seat0

00:00:06.584 [c/debug/seatd/0.8.0/seatd/seat.c:480] Opened client 7 on seat0

[21:54:02.213] [c/debug/seatd/0.8.0/libseat/libseat.c:73] Seat opened with backend 'seatd'

[21:54:02.213] [c/debug/seatd/0.8.0/libseat/backend/seatd.c:212] Enabling seat

[21:54:02.214] libseat: session control granted

[21:54:02.314] using /dev/dri/card0

[21:54:02.315] DRM: supports atomic modesetting

[21:54:02.315] DRM: supports GBM modifiers

[21:54:02.316] DRM: does not support async page flipping

[21:54:02.316] DRM: supports picture aspect ratio

[21:54:02.316] Using Pixman renderer

[21:54:02.660] event0 - Logitech USB Optical Mouse: is tagged by udev as: Mouse

[21:54:02.662] event0 - Logitech USB Optical Mouse: device is a pointer

[21:54:02.745] event1 - Dell KB216 Wired Keyboard: is tagged by udev as: Keyboard

[21:54:02.746] event1 - Dell KB216 Wired Keyboard: device is a keyboard

[21:54:02.830] event2 - Dell KB216 Wired Keyboard System Control: is tagged by udev as: Keyboard

[21:54:02.831] event2 - Dell KB216 Wired Keyboard System Control: device is a keyboard

[21:54:02.915] event3 - Dell KB216 Wired Keyboard Consumer Control: is tagged by udev as:

Keyboard

[21:54:02.916] event3 - Dell KB216 Wired Keyboard Consumer Control: device is a keyboard

[21:54:02.919] libinput: configuring device "Logitech USB Optical Mouse".

[21:54:02.961] libinput: configuring device "Dell KB216 Wired Keyboard".

[21:54:02.961] libinput: configuring device "Dell KB216 Wired Keyboard System Control".

[21:54:02.962] libinput: configuring device "Dell KB216 Wired Keyboard Consumer Control".

[21:54:08.111] DRM: head 'HDMI-A-1' found, connector 41 is connected, EDID make 'unknown', model 'unknown', serial "

Supported EOTF modes: SDR

[21:54:08.114] Registered plugin API 'weston_drm_output_api_v1' of size 40

[21:54:08.114] Color manager: no-op

[21:54:08.114] Output 'HDMI-A-1' attempts EOTF mode: SDR

[21:54:08.115] Output 'HDMI-A-1' using color profile: stock sRGB color profile

[21:54:08.124] DRM: output HDMI-A-1 uses shadow framebuffer.

[21:54:08.125] Output HDMI-A-1 (crtc 39) video modes:

1024x768@60.0, current, 65.0 MHz

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800x600@60.3, 40.0 MHz
800x600@56.2, 36.0 MHz
848x480@60.0, 33.8 MHz
640x480@59.9, 25.2 MHz
[21:54:08.125] associating input device event0 with output HDMI-A-1 (none by udev)
[21:54:08.126] associating input device event1 with output HDMI-A-1 (none by udev)
[21:54:08.126] associating input device event2 with output HDMI-A-1 (none by udev)
[21:54:08.126] associating input device event3 with output HDMI-A-1 (none by udev)
[21:54:08.126] Output 'HDMI-A-1' enabled with head(s) HDMI-A-1
[21:54:08.126] Compositor capabilities:
    arbitrary surface rotation: yes
    screen capture uses y-flip: no
    cursor planes: yes
    arbitrary resolutions: no
    view mask clipping: yes
    explicit sync: no
    color operations: no
    presentation clock: CLOCK_MONOTONIC, id 1
    presentation clock resolution: 0.000000001 s
[21:54:08.129] Loading module '/usr/lib/weston/desktop-shell.so'
[21:54:08.135] launching '/usr/libexec/weston-keyboard'
[21:54:08.139] launching '/usr/libexec/weston-desktop-shell'

[21:54:08.186] Command line: /usr/bin/weston
[21:54:08.187] OS: Linux, 6.12.35-ti-00915-ge3e551586dfa, #1 SMP PREEMPT Tue Jul 1
21:17:52 UTC 2025, aarch64
[21:54:08.187] Flight recorder: enabled
[21:54:08.192] Using config file '/etc/xdg/weston/weston.ini'
[21:54:08.194] Output repaint window is 7 ms maximum.
[21:54:08.195] Loading module '/usr/lib/libweston-13/drm-backend.so'
[21:54:08.213] initializing drm backend
[21:54:08.213] Trying libseat launcher...
00:00:12.586 [c/debug/seatd/0.8.0/seatd/server.c:145] New client connected (pid: 1022,
uid: 0, gid: 0)
could not load cursor 'dnd-move'
could not load cursor 'dnd-copy'
could not load cursor 'dnd-none'
Internal warning: debug scope 'drm-backend' has not been destroyed.
Enters sleep mode
iclick
weston: /usr/src/debug/weston/13.0.1/libweston/compositor.c:3730[ 2813.548201] audit:
type=1701
audit(1748555693.736:35): auid=4294967295 uid=0 gid=0 ses=4294967295 subj=kernel
pid=1021
comm="weston" exe="/usr/bin/weston" sig=6 res=1
: weston_output_finish_frame: Assertion `timespec_sub_to_nsec(stamp,
&output->frame_time) >=
0' failed.

```

```
[ 2813.581860] audit: type=1334 audit(1748555693.772:36): prog-id=26 op=LOAD
[ 2813.588757] audit: type=1334 audit(1748555693.776:37): prog-id=27 op=LOAD
[ 2813.595623] audit: type=1334 audit(1748555693.784:38): prog-id=28 op=LOAD
00:00:59.540 [c/debug/seatd/0.8.0/seatd/client.c:471] Client disconnected
[ 2814.995985] audit: type=1701 audit(1748555695.184:39): auid=4294967295 uid=0 gid=0
ses=4294967295 subj=kernel pid=1018 comm="strace" exe="/usr/bin/strace" sig=6 res=1
[ 2815.027961] audit: type=1334 audit(1748555695.216:40): prog-id=29 op=LOAD
[ 2815.034881] audit: type=1334 audit(1748555695.224:41): prog-id=30 op=LOAD
[ 2815.041752] audit: type=1334 audit(1748555695.232:42): prog-id=31 op=LOAD
[ 2815.057816] audit: type=1334 audit(1748555695.248:43): prog-id=28 op=UNLOAD
[ 2815.064946] audit: type=1334 audit(1748555695.248:44): prog-id=27 op=UNLOAD
00:00:59.760 [c/debug/seatd/0.8.0/seatd/seat.c:418] No clients on seat0 to activate
00:00:59.773 [c/debug/seatd/0.8.0/seatd/seat.c:524] Closed client 7 on seat0
00:00:59.773 [c/debug/seatd/0.8.0/seatd/seat.c:192] Removed client 7 from seat0
Aborted (core dumped)
```

testing tides with modetest

```
:~# modetest -M tidss -s 41@39:1024x768-60
setting mode 1024x768-60.00Hz on connectors 41, crtc 39
here the screen shows this display (colored)
the screen keeps that display until i click enter on the terminal then the screen is back to black
root@am62xx-evm:~# modetest -M tidss -w 41:DPMS:3
here I see it gets darker for a second then it goes back to the regular initial black screen
root@am62xx-evm:~# modetest -M tidss -w 41:DPMS:0
nothing change after this command (same black screen)
```

Expected Behavior (Ideal)

After

✓ DPMS:3:

- HDMI signal stops (verified with monitor power LED going to standby)
- No video output
- Low power state engaged (PHY may be powered down)

After

✓ DPMS:0:

- Signal restored
- Monitor wakes from standby
- Image reappears without needing to re-set mode

The tidss driver is not properly restoring the display state, which indicates a bug in the atomic commit or encoder enable logic