

Regressions & tracking them: current state, plans, and what do you want?

Thorsten Leemhuis

- * hi & welcome everybody
- * the title already indicates what is this all about, but...

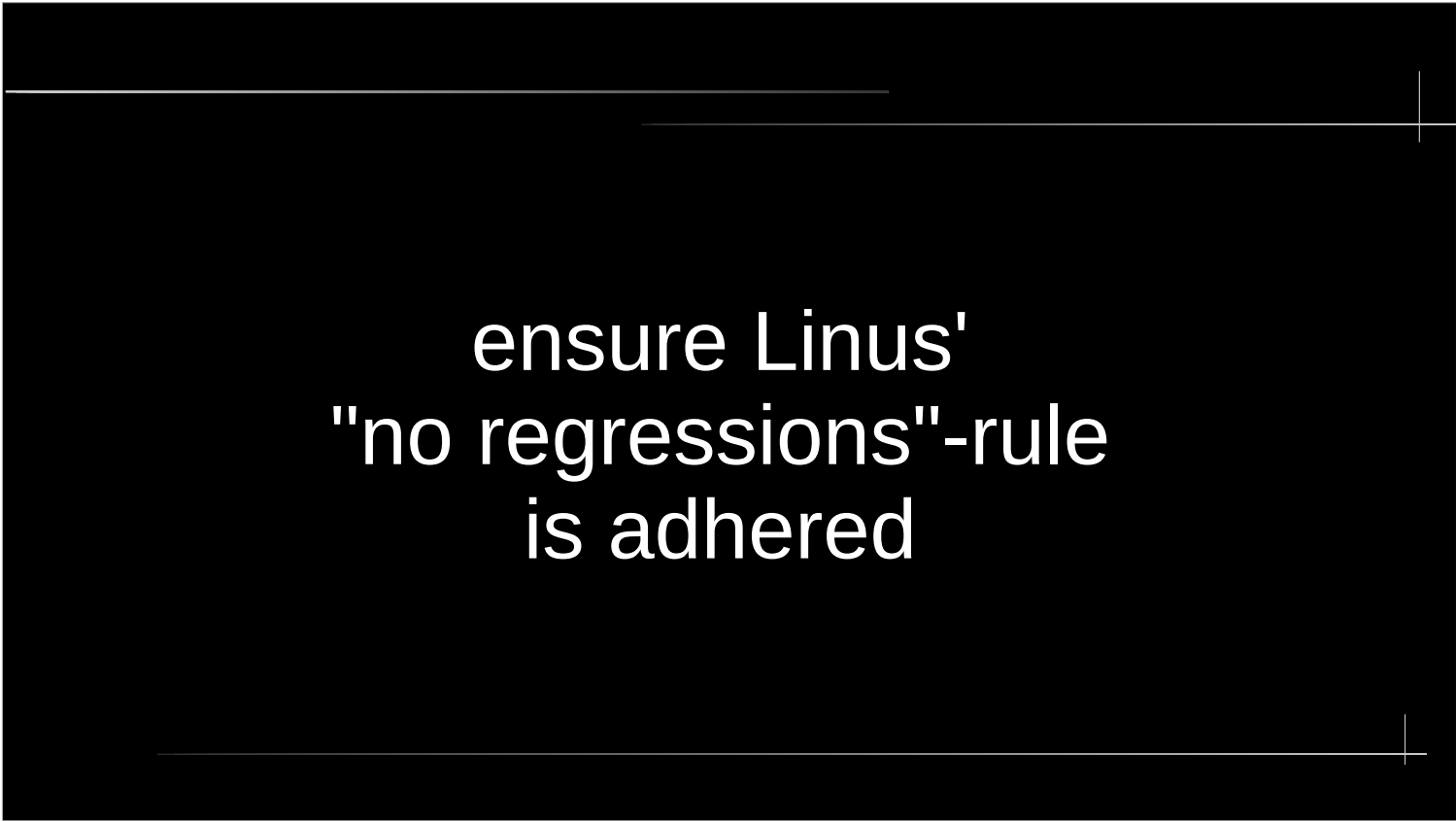
= quick, essential background =

```
S:      maintained
F:      scripts/package/PKGBUILD

KERNEL REGRESSIONS
M:      Thorsten Leemhuis <linux@leemhuis.info>
L:      regressions@lists.linux.dev
S:      Supported
F:      Documentation/admin-guide/reporting-regressions.rst
F:      Documentation/process/handling-regressions.rst

KERNEL SELFTEST FRAMEWORK
M:      Shuah Khan <shuah@kernel.org>
```

- * years ago I added myself to MAINTAINERS
- * no backing, just found this something I want to work on
- * idea was...

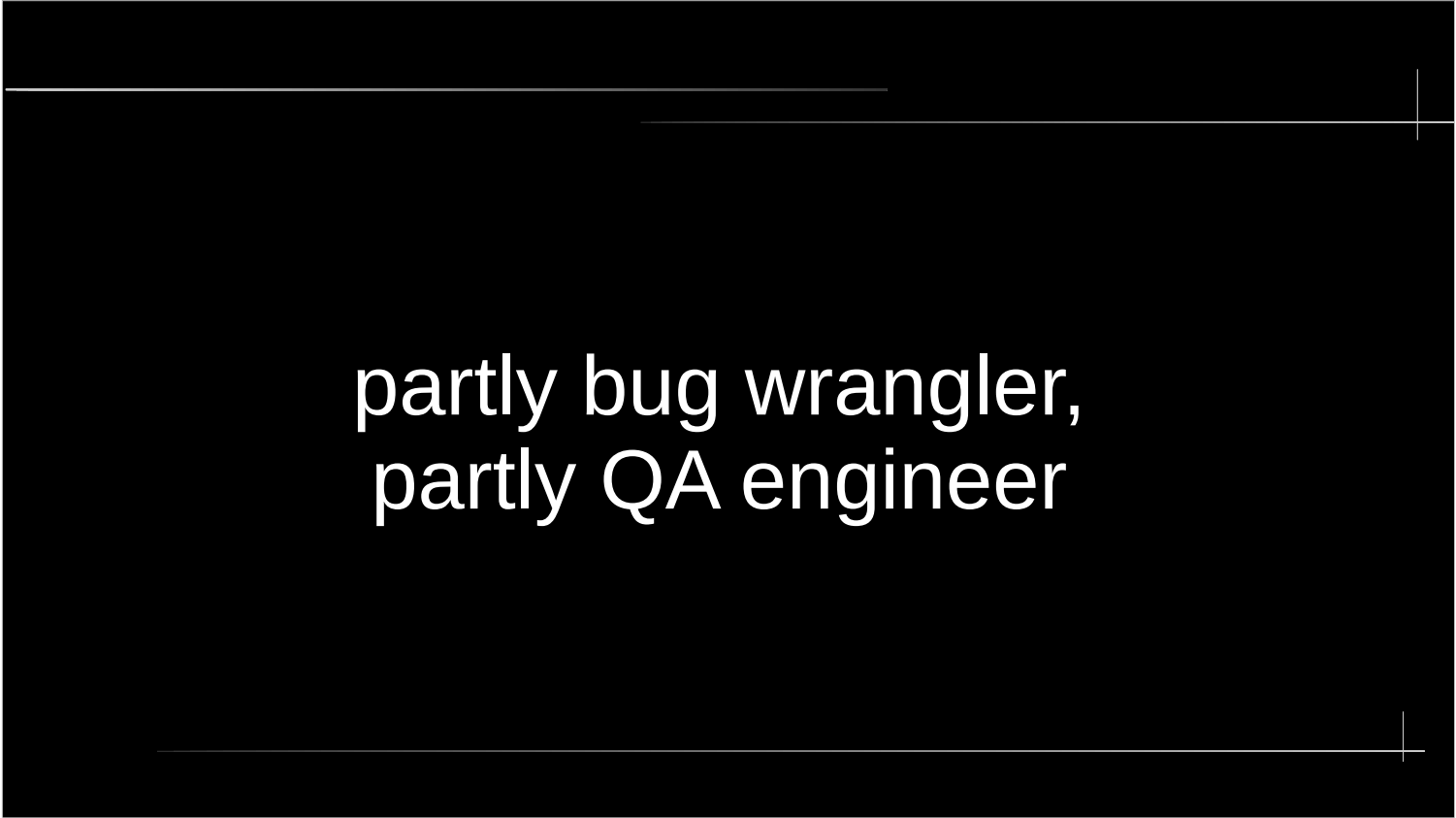


ensure Linus'
"no regressions"-rule
is adhered

* speak up to make that happen

tell Linus about
unresolved regressions
worth delaying a release

- * speak up to prevent them from getting that far
- * anything else would be stupid



partly bug wrangler,
partly QA engineer

- * so somewhat like a cop or a manager
- * problem with that...

project wide effort

project wide effort,
where reporting by mail is the default

project wide effort,
where reporting by mail is the default
with no central bug tracker

* but quite a few must go to one of several bug trackers

```
thl@luggage:/srv/linux.git/mainline$ for i in bugzilla.kernel.org gitlab github; do echo "$(grep -  
-count "^B:.*${i}" MAINTAINERS) ${i}" ; done  
23 bugzilla.kernel.org  
12 gitlab  
17 github  
  
thl@luggage:/srv/linux.git/mainline$ grep "^B.*gitlab" MAINTAINERS  
B:      https://gitlab.freedesktop.org/drm/amd/-/issues  
B:      https://gitlab.com/apparmor/apparmor-kernel  
B:      https://gitlab.freedesktop.org/panfrost/linux/-/issues  
B:      https://gitlab.freedesktop.org/drm/msm/-/issues  
B:      https://gitlab.freedesktop.org/drm/msm/-/issues  
B:      https://gitlab.freedesktop.org/drm/nouveau/-/issues  
B:      https://gitlab.freedesktop.org/drm/nova/-/issues  
B:      https://gitlab.freedesktop.org/drm/nova/-/issues  
B:      https://gitlab.freedesktop.org/drm/nova/-/issues  
B:      https://gitlab.freedesktop.org/drm  
B:      https://gitlab.freedesktop.org/imagination/linux/-/issues  
B:      https://gitlab.freedesktop.org/drm/xe/kernel/-/issues  
B:      https://gitlab.freedesktop.org/drm/amd/-/issues  
  
thl@luggage:/srv/linux.git/mainline$
```

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B:      https://gitlab.com/apparmor/apparmor-kernel  
B:      https://gitlab.freedesktop.org/panfrost/linux/-/issues  
B:      https://gitlab.freedesktop.org/drm/msm/-/issues  
B:      https://gitlab.freedesktop.org/drm/msm/-/issues  
B:      https://gitlab.freedesktop.org/drm/nouveau/-/issues  
B:      https://gitlab.freedesktop.org/drm/nova/-/issues  
B:      https://gitlab.freedesktop.org/drm/nova/-/issues  
B:      https://gitlab.freedesktop.org/drm/nova/-/issues  
B:      https://gitlab.freedesktop.org/drm  
B:      https://gitlab.freedesktop.org/imagination/linux/-/issues  
B:      https://gitlab.freedesktop.org/drm/xe/kernel/-/issues  
B:      https://gitlab.freedesktop.org/drm/amd/-/issues  
  
thl@luggage:/srv/linux.git/mainline$
```

* important ones

I wrote regzbot,
a "meta" regression tracking bot

* all that is needed to make regzbot track and issue,
is...

All of lore.kernel.org

search help / color / mirror / Atom feed

* [REGRESSION] PCI/pwrctrl: WCN7850 not enumerated on X1E80100 (Surface Pro 11) since b921aa3f8dec

@ 2026-10-03 9:06 François Roux

2026-10-03 9:14 ` [PATCH] power: sequencing: qcom-wcn: power off WLAN at probe Franz
0 siblings, 1 reply; 3+ messages in thread

From: François Roux @ 2026-10-03 9:06 UTC (permalink / raw)

To: mani, brgl, bhelgaas

Cc: krishna.chundru, linux-pci, linux-arm-msm, linux-pm, regressions,
linux-kernel

Hi,

Since b921aa3f8dec ("PCI/pwrctrl: Switch to pwrctrl create, power on/off, destroy APIs") the on-board WCN7850 Wi-Fi of the Microsoft Surface Pro 11 (X1E80100, board "denali") is no longer enumerated. v6.17 works. v7.0, v7.1 and linux-next up to next-20260929 do not.

#regzbot introduced: b921aa3f8dec

#regzbot title: PCI/pwrctrl: WCN7850 on PERST#-less qcom port not enumerated after pwrctrl rework

Hardware

The WCN7850 (pci17ch:1107 ath12k) sits behind pcie4 (1c080000

- * ...a simple command in a report
- * anybody can do that
- * this is on lore
- * but regzbot can also...

Welcome to Kernel.org Bugzilla

Please use your distribution's bug tracking tools

This bugzilla is for reporting bugs against **upstream Linux kernels**.

If you did not compile your own kernel from scratch, you are probably in the wrong place.

Please use the following links to report a bug to your distribution instead:

[Ubuntu](#) | [Fedora](#) | [Arch](#) | [Mint](#) | [Debian](#) | [Red Hat](#) | [OpenSUSE](#) | [SUSE](#)

To report an issue upstream, please consult this document before opening a new bug:

[Reporting Issues](#)

With questions about this site contact [bugzilla admins](#).

Please check the [FAQ](#) before you do so.



File a Bug



Search



User Preferences



Documentation

Enter a bug # or some search terms [?]

Common Queries:

Open bugs assigned to me (0)

Open bugs reported by me (0)

Open bugs assigned to me (0)

Welcome to Kernel.org Bugzilla

Please
This bugzilla
If you did not compile
Please use the
Ubuntu | Fedora
To report an issue us



File a Bug

Common Queries:

- Open bugs assigned to me (0)
- Open bugs reported by me (0)

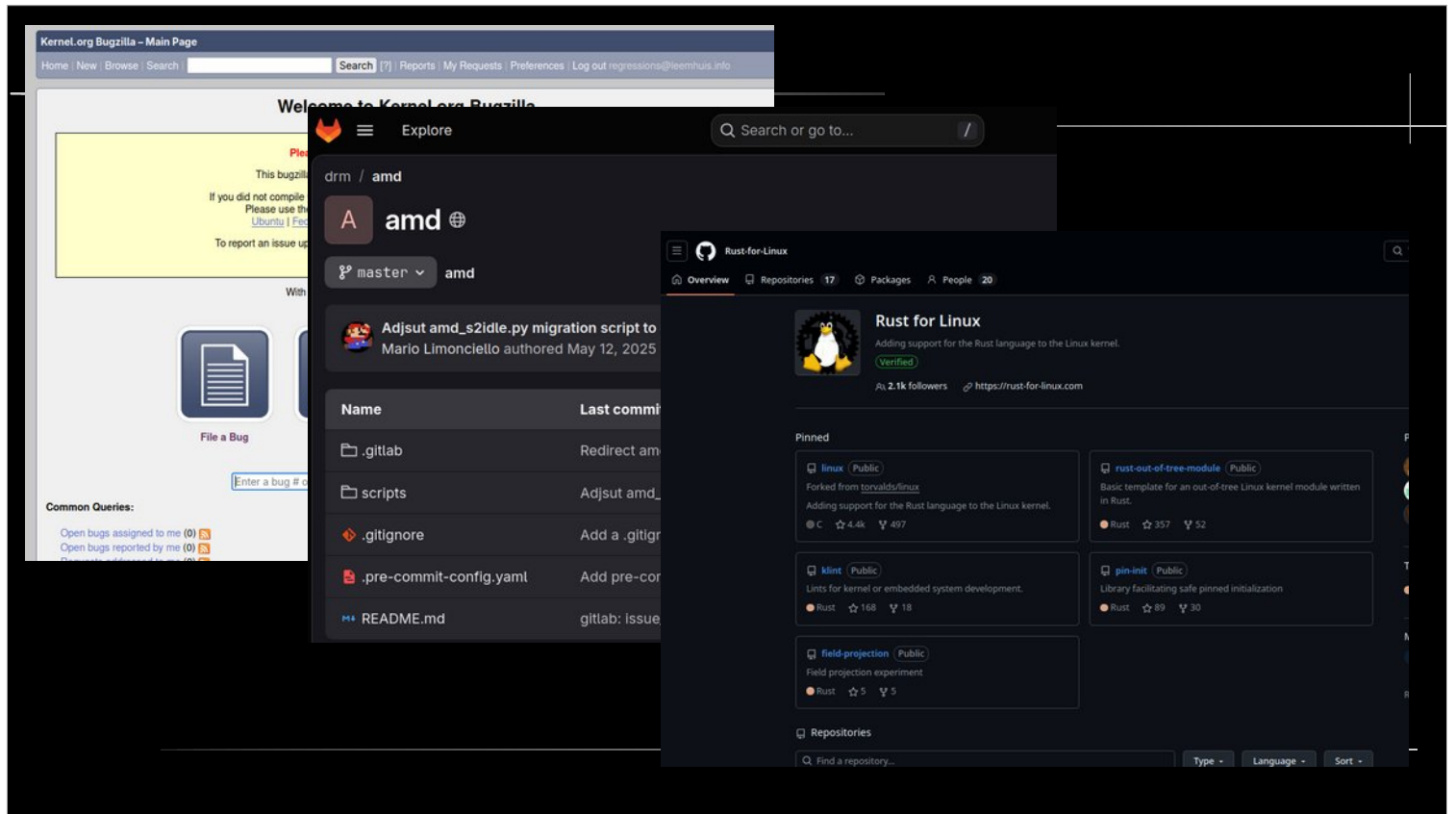
 **amd**

drm / amd

master amd Find file Code

 Adjsut amd_s2idle.py migration script to use amd-debug-to...
Mario Limonciello authored May 12, 2025 0f486d26 History

Name	Last commit	Last update
.gitlab	Redirect amd_s2idle.py and ...	1 year ago
scripts	Adjsut amd_s2idle.py migrati...	1 year ago
.gitignore	Add a .gitignore file	2 years ago
.pre-commit-config.yaml	Add pre-commit hook	2 years ago
README.md	gitlab: Issue_template: Updat...	4 years ago



* regzbot then does lifetime tracking

patchset/20261003091451.4/2/-1-tranzel@tranzel@gmail.com?part=1

^ permalink raw reply [flat|nested] 3+ messages in thread

end of thread, other threads:[~2026-10-03 9:20 UTC | newest]

Thread overview: 3+ messages (download: mbox.gz follow: Atom feed

-- links below jump to the message on this page --

2026-10-03 9:06 [REGRESSION] PCI/pwrctrl: WCN7850 not enumerated on
X1E80100 (Surface Pro 11) since b921aa3f8dec François Roux

2026-10-03 9:14 ` [PATCH] power: sequencing: qcom-wcn: power off WLAN
at probe Franz

2026-10-03 9:20 ` sashiko-bot

This is an external index of several public inboxes,
see [mirroring instructions](#) on how to clone and mirror

* looks for replies

once we get the address, we can properly mask it off before handing it over to userspace.

This also allows us to fix a regression on AMD15h family for hugetlb mappings [1].

[1] <https://lore.kernel.org/linux-mm/20260527143643.6031091@soohrt.org/>

Fixes: 7bd3f1e1a9ae ("mm: make hugetlb mappings go through mm_get_unmapped_area_vmflags")

Reported-by: Karsten Desler <kdesler@soohrt.org>

Closes: <https://lore.kernel.org/linux-mm/20260527143643.6031091@soohrt.org/>

Signed-off-by: Oscar Salvador <osalvador@suse.de>

Acked-by: Dave Hansen <dave.hansen@linux.intel.com>

```
fs/hugetlbfs/inode.c      | 25 ++++++
include/linux/hugetlb.h   |  2 +-
2 files changed, 25 insertions(+), 2 deletions(-)
```

```
diff --git a/fs/hugetlbfs/inode.c b/fs/hugetlbfs/inode.c
```

- * looks for patches on lore referencing report
- * detect references to gitlab/github/bugzilla issues
- * looks in git, too



index : kernel/git/next/linux-next.git

The linux-next integration testing tree

[about](#) [summary](#) [refs](#) [log](#) [tree](#) **[commit](#)** [diff](#) [stats](#)

log msg ▾

NFSD: Return NFSERR_ISDIR for NFSv2 READ and WRITE on a non-regular file

Commit 0ac903d1bfdc ("NFS: NFSERR_INVALID is not defined by NFSv2") changed the status NFSD returns for an NFSv2 READ or WRITE of a symlink or other non-regular file from NFSERR_INVALID to NFSERR_IO. RFC 1094 defines neither an INVALID nor a SYMLINK status.

U-Boot's NFS client follows a symlink only when READ fails with NFSERR_ISDIR or NFSERR_INVALID. Since that commit it cannot load a boot image through a symlink exported by a Linux NFS server: the load completes with zero bytes transferred.

Solaris returns NFSERR_ISDIR when the target of an NFSv2 READ or WRITE is not a regular file. Return the same status from NFSD. Other NFSv2 procedures continue to return NFSERR_IO.

Fixes: 0ac903d1bfdc ("NFS: NFSERR_INVALID is not defined by NFSv2")
Cc: stable@vger.kernel.org
Reported-by: Jörg Sommer <joerg@jo-so.de>
Closes: https://lore.kernel.org/linux-nfs/apE90ZRZB8IW_AiS@jo-so.de/
Reviewed-by: NeilBrown <neil@brown.name>
Reviewed-by: Jeff Layton <layton@kernel.org>

- * automatically closes
- * ideally no overhead for developers
- * and...

Linux kernel regression status

[\[next\]](#) [\[mainline\]](#) [\[stable/longterm\]](#) • [\[new\]](#) • [\[all\]](#) • [\[resolved\]](#) [\[inconclusive\]](#)

current cycle (v7.2.. aka v7.3-rc), culprit identified

- [97d34aa65c29](#) (v7.3-rc2) ▶ **secretmem: SIGBUS on memfd_secret() pages while perf record runs** by [Ameer Hamza](#)
Earliest & latest [activity](#): [36 hours ago](#) & [7 hours ago](#).
- [a637a140ab86](#) (v7.3-rc1) ▶ **Single-frame scanout corruption on DCN32 at 120 Hz, 90x more frequent since a637a140ab86** by [Mikhail Gavrilov](#) and [Mikhail Gavrilov](#)
Earliest & latest [activity](#): [5 weeks ago](#) & [34 hours ago](#).
- [9e4a3ec3411b](#) (v7.3-rc4) ▶ **x86: mm: protection fault when using a boot-time function tracer and a filter** by [Mikhail Gavrilov](#)
Earliest & latest [activity](#): [10 days ago](#) & [47 hours ago](#). Noteworthy: [\[fix incoming\]](#).
- [143755bdabaa](#) (v7.3-rc4) ▶ **dma-buf: drm/msm hardware video decode broken** by [Jianfeng Liu](#)
Earliest & latest [activity](#): [11 days ago](#) & [5 days ago](#). Noteworthy: [\[1\]](#), [\[fix incoming\]](#).
- [022eb347ff3a](#) (v7.3-rc1) ▶ **HID: logitech: hi-res scroll broken after suspend and resume** by [Roman Stangler](#)
Earliest & latest [activity](#): [14 days ago](#) & [8 days ago](#). Noteworthy: [\[1\]](#), [\[2\]](#), [\[3\]](#), [\[4\]](#), [\[patch \(SOB\)\]](#).
- [d5d8b8662e6e](#) (v7.3-rc4) ▶ **[PATCH] x86/mm: avoid a reclaiming allocation in pud_free_pmd_page()** by [Mikhail Gavrilov](#)
Earliest & latest [activity](#): [18 days ago](#) & [10 days ago](#). Noteworthy: [\[fix incoming\]](#).

current cycle (v7.2.. aka v7.3-rc), unknown culprit

- v7.2..v7.3-rc1 ▶ **drm: amdgpu: HP OmniBook X Flip OLED stays black until VESA AUX luminance control is enabled** by [David McKechnie](#)
Earliest & latest [activity](#): [5 weeks ago](#) & [43 hours ago](#).

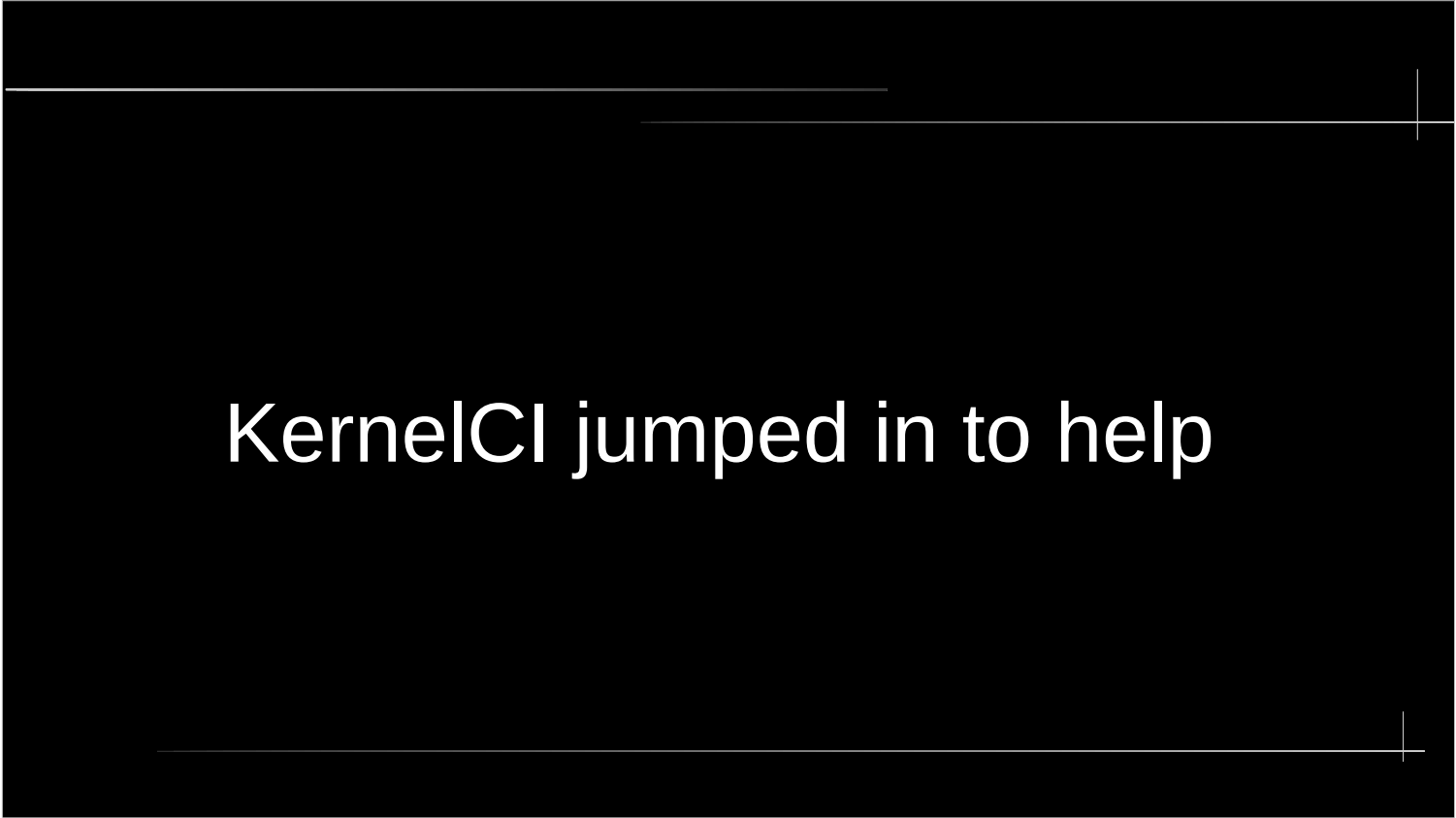
previous cycle (v7.1..v7.2), culprit identified, with activity in the past three months

- [7e5760f084d0](#) (v7.2-rc1) ▶ **drm: amdgpu: various problems wrt to outputs, apparently already fixed in 7.3** by [Michał Górny](#), [Prslc](#), and [Bjørnar Hansen](#)
Earliest & latest [activity](#): [4 weeks ago](#) & [15 hours ago](#). Noteworthy: [\[1\]](#), [\[patch \(SOB\)\]](#).
- [bee25f97ad24](#) ▶ **powerpc: Power9 nseries boot hang** by [Venkat Rao Bagalkote](#)

- * if things stall or take too long, I notice by checking regzbot's web-ui and show up to investigate
- * either tell regzbot something, like "not a regression" or "duplicate"
- * or prod users/developers/maintainers

= brief status =

regzbot and my
regression tracking & tackling efforts
came close to an end late 2025

A black rectangular box with white text and thin white lines. The text "KernelCI jumped in to help" is centered in the box. There are thin white lines at the top and bottom of the box, and a small white crosshair in the top right corner.

KernelCI jumped in to help

* ramped up

challenging kernel landscape
became even harder to tackle

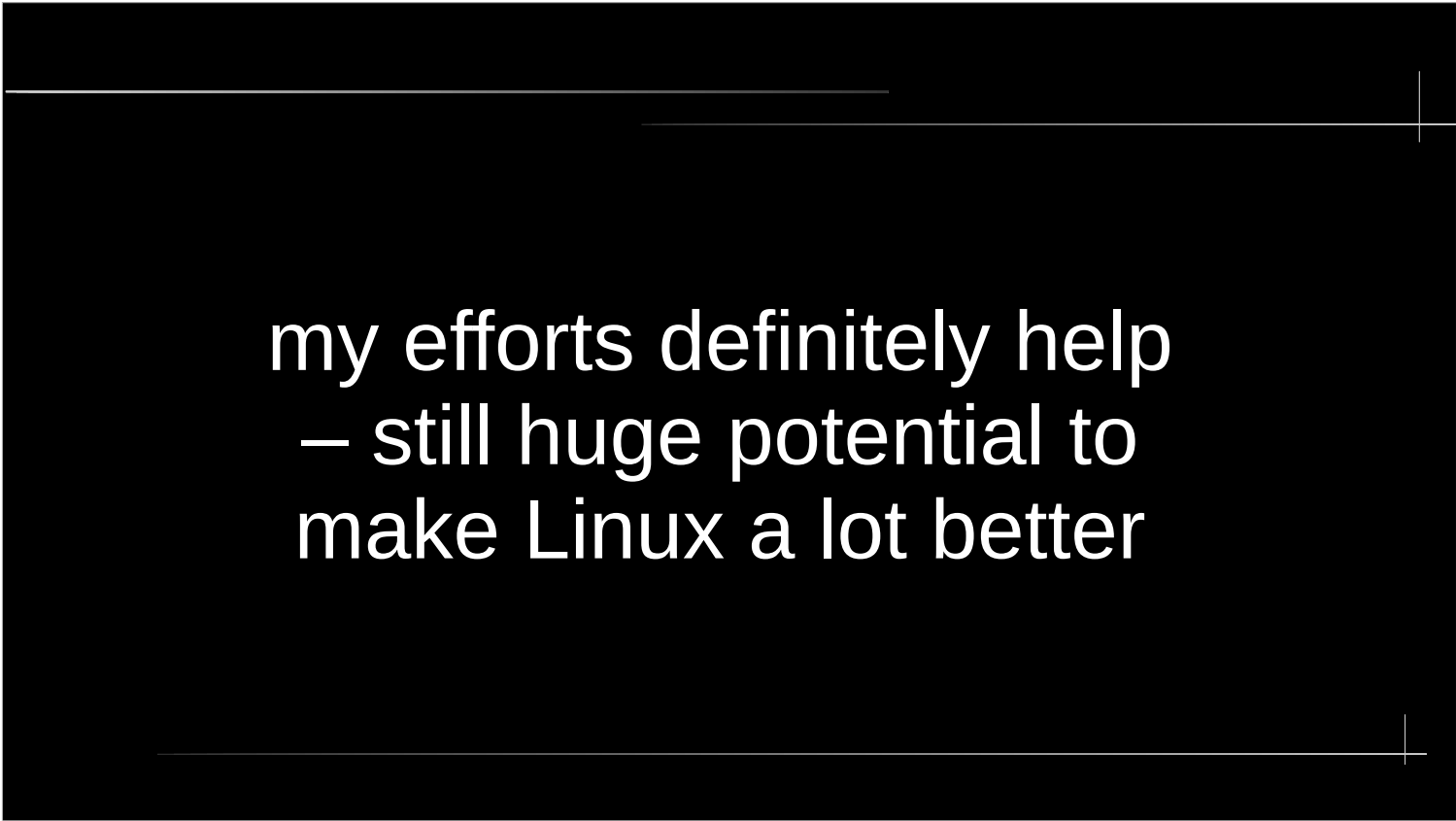
AI & LLMs happened – and heavily stirred and stir things up

- * both for regzbot and my efforts based on
- * makes adjustments necessary

it might be time to rethink and
revamp my regression
tracking and tackling efforts

* but continuing them is wise if you ask me

my efforts definitely help

A black rectangular box with white text. The text is centered and reads: "my efforts definitely help – still huge potential to make Linux a lot better". There are thin white lines at the top and bottom of the box, and a small white crosshair in the top right corner.

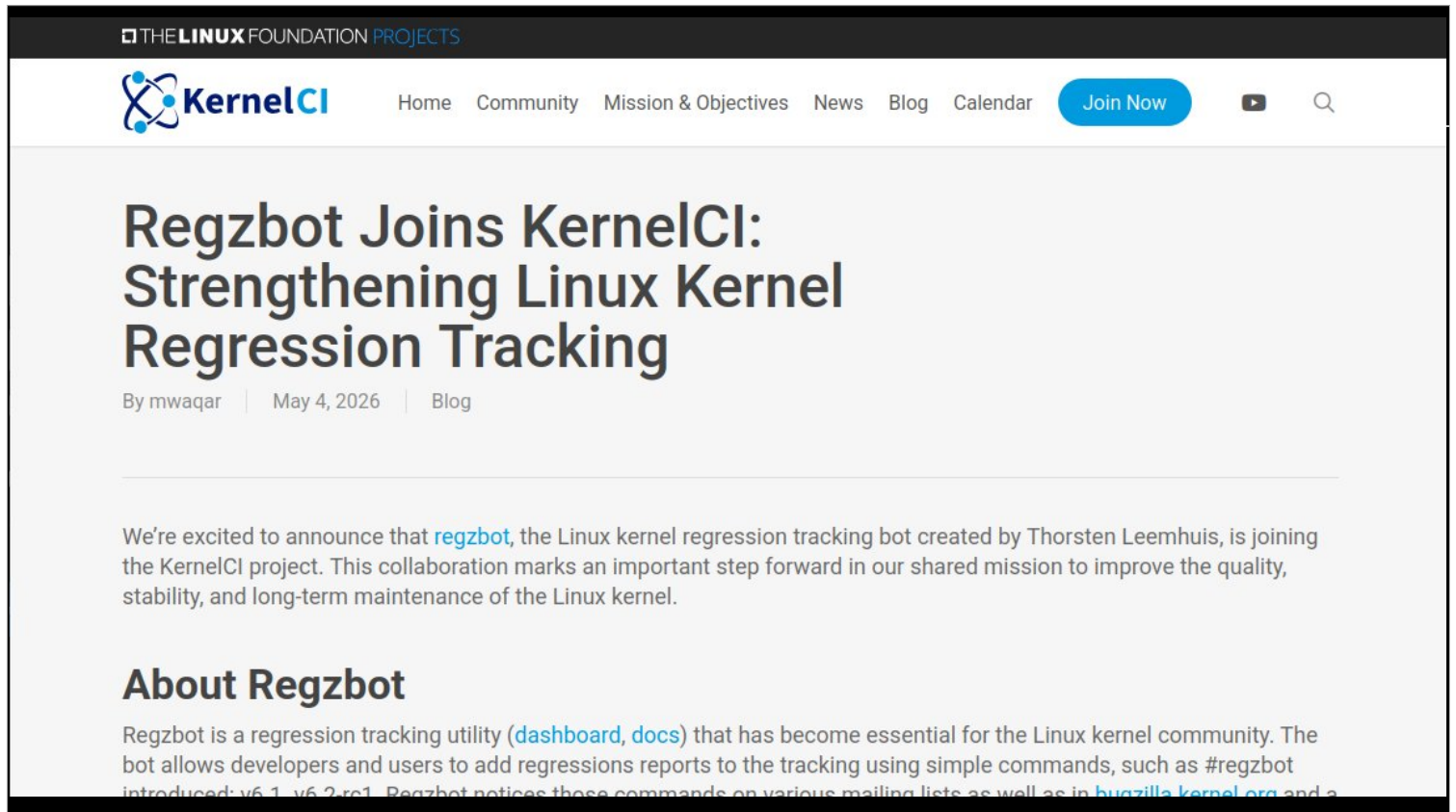
my efforts definitely help
– still huge potential to
make Linux a lot better

- * that was the long story short
- * now details...

= state of things early 2026 =



- * lack of funding since early 2024
- * one burnout factor
- * faced a few others
- * regzbot's development in hard maintenance mode since early 2024
- * my regression tracking and tackling efforts downsized to barely visible



- * idea: benefit from each other
- * they fund my efforts for 10h/week this year
- * idea: they help with development
- * regzbot helps the CI efforts
 - directly make regzbot track problems the CI mails out
 - CI can rely on regzbot's lifetime tracking
- * I help the CI efforts
 - look at regressions the CI reports
 - prod where needed to fix them
 - other kernel stuff occasionally

Many thx, KernelCI!

Many thx, KernelCI!
And to Meta and the EU¹
for earlier funding, too!

¹ through NGI pointer

- * ramped up my efforts again
- * which brings us to

= state of things now =

- regzbot -

regzbot's still in maintenance mode

- * wanted to assess things before restarting development
- * took longer than expected
- * good news is: ...

regzbot's core idea still solid and working well

- * lifetime tracking wanted and great
- * meta idea great, too
- * regzbot even helpful in times of AI

🔮 AI Overview

The boot failure you are experiencing on your **OpenPandora (OMAP3)** device is a [known Linux kernel regression introduced in the v7.2-rc1 development cycle](#).

Cause of the Regression

The issue was tracked down via git bisect to the following commit:

- **Commit:** `b8eeeca5545659`
- **Subject:** `clocksource/drivers/timer-ti-dm: Add clocksource support`

This commit modifies the TI Dual-Mode Timer (`timer-ti-dm`) initialization behavior. On the OpenPandora's OMAP3 platform, this change causes the system timer or clocksource selection to break during early boot, resulting in a complete hang before the kernel can initialize user space.

How to Fix It

If you need a working system immediately, you have two primary options:

1. Revert the Bad Commit:

If you are building your own kernel from source, you can temporarily restore normal

👤 Thorsten Leemhuis

[Linux kernel regression status - Thorsten Leemhuis](#)

clocksource/drivers/timer-ti-dm: OpenPandora (OMAP3) fails to boot by H. Nikolaus Schaller...

👤 lkml.org

"H. Nikolaus Schaller": [REGRESSION] OpenPandora ... - LKML

28 Aug 2026 — Hi, I am seeing a boot regression on OpenPandora (OMAP3) since v7.2-rc1. A git...

👤 lkml.org

Andreas Kemnade: Re: [REGRESSION] OpenPandora ... - LKML

28 Aug 2026 — Re: [REGRESSION] OpenPandora (OMAP3) fails to boot since v7. ... >...

Show all

clocksource/drivers/timer-ti-dm: OpenPandora (OMAP3) fails to boot

AI Mode

All

Videos

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Forums

Images

Short videos

More

Tools

AI Overview

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Thorsten Leemhuis

[Linux kernel regression status - Thorsten Leemhuis](#)

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lkml.org

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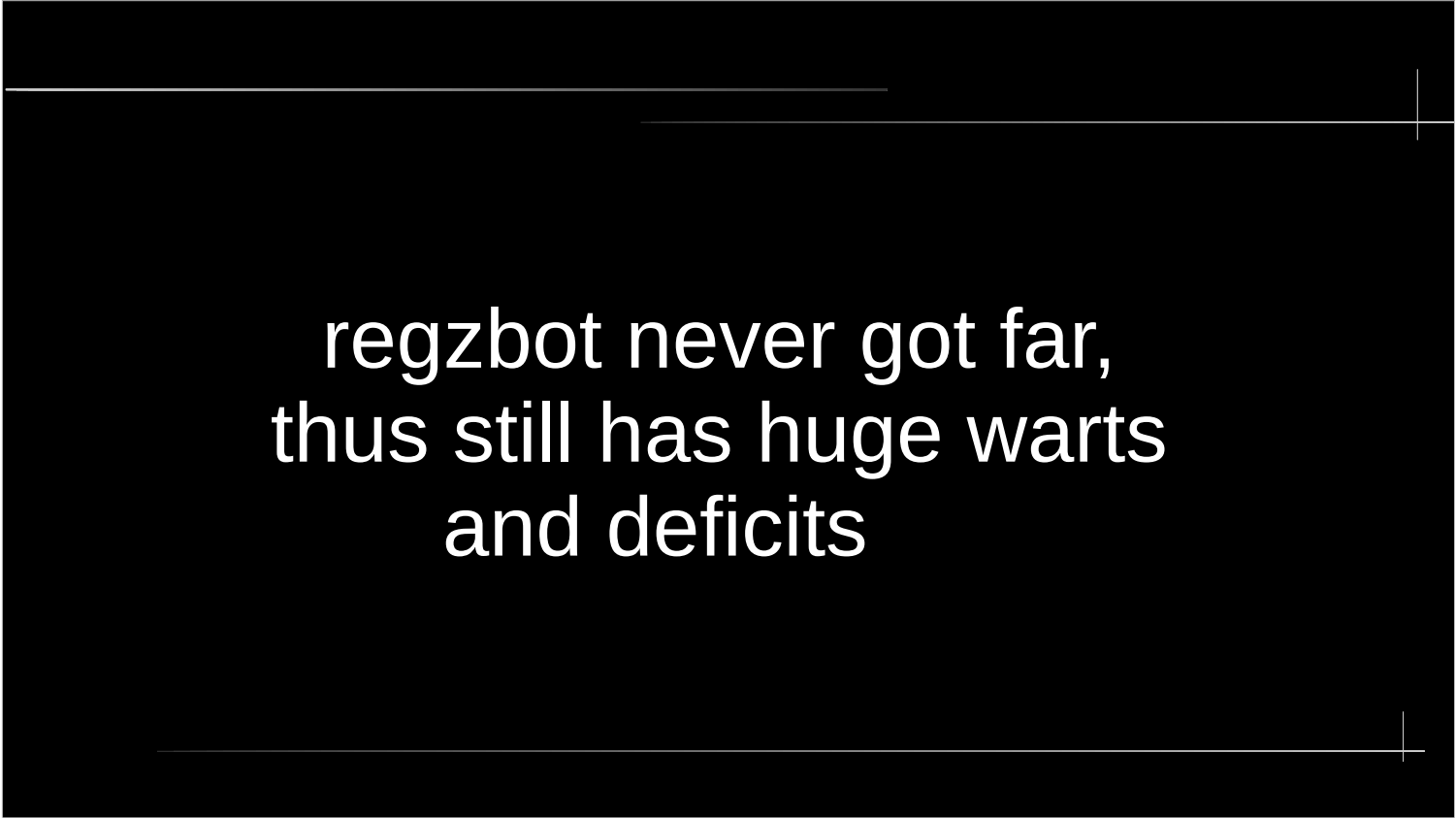
lkml.org

Andreas Kemnade: Re: [REGRESSION] OpenPandora ... - LKML

28 Aug 2026 — Re: [REGRESSION] OpenPandora (OMAP3) fails to boot since v7. ... >...

Show all

* not that good news is: ...

A black rectangular box with white text. The text is centered and reads: "regzbot never got far, thus still has huge warts and deficits". There are thin white lines: a horizontal line near the top, a horizontal line near the bottom, and a vertical line on the right side.

regzbot never got far,
thus still has huge warts
and deficits

* web-ui very ugly

not really autonomous

- * doesn't send inquiry mails when things stall
- * so I have to handle everything non-standard
- * wanted to polish things first to prevent "everybody is annoyed and ignores these mails" situation

not really autonomous and not working well for subsystem maintainers or CIs

- * there was and is a interest from some
- * wanted to polish web and cmd interface first
- * build myself a trap
- * a lot of human effort <-> lack of funding <-> lack of motivation
- * plan was to finally fix this with KernelCI
- * now bad news
- * world had moved on
- * sashiko and other AI things came up
- * which causes another, bigger question to pop up

can or should an AI agent
make regzbot obsolete

can or should an AI agent
make regzbot obsolete
– today or tomorrow

can or should an AI agent make regzbot obsolete – today or tomorrow, partially or completely?

- * I don't know – you tell me
- * and likely needs to be discussed with one or two AI experts
- * If you are one, *please* find me!
- * *pretty please*
- * I'll offer coffee or lunch

- * in the end: if and agent can do this sooner or later, improving regzbot likely not worth the trouble
- * but ripping out the good parts likely still worth it

- * and continue running regzbot for a while, too, as its useful
- * and human hand holding will always needed
- * even if an AI agent replaces regzbot
- * which brings me to

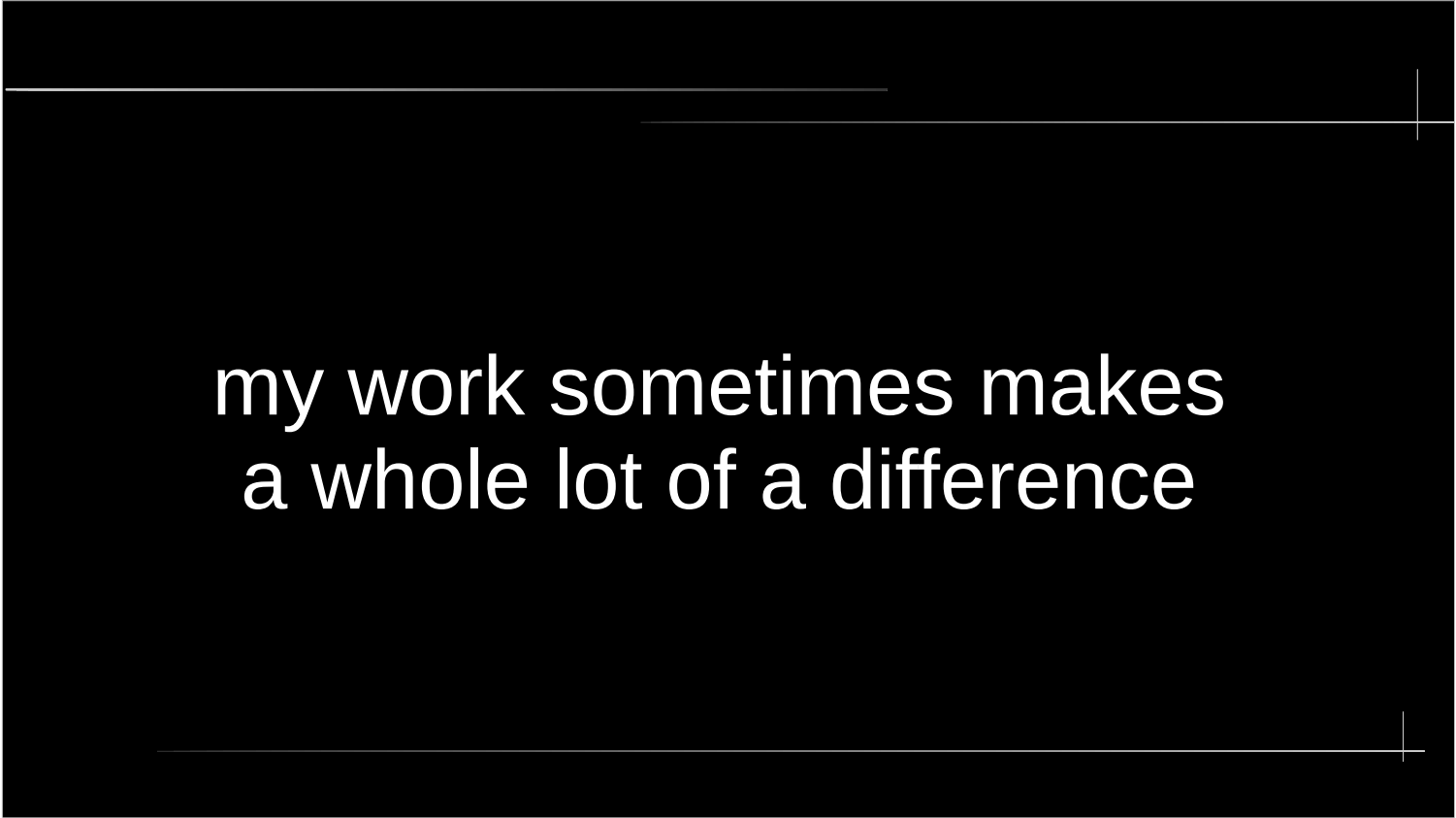
- my tracking and tackling efforts -

kernel developers love it

- * sometimes I get praised
- * in general or because due to reminders
- * but the devs also...

kernel developers love it and hate it at the same time

- * receive annoyed replies from devs/maintainers
- * I get why
 - they feel watched by a cop or manager
 - I poach around in their territory
 - naturally sometimes get things wrong
 - my prodding increase their load, needless overhead or bureaucracy in their eyes
- * up to some point that is normal
- * so are my efforts worth it?

A black rectangular box with white text and thin white lines. The text is centered and reads "my work sometimes makes a whole lot of a difference". There are thin white lines at the top and bottom of the box, and a small white crosshair in the top right corner.

my work sometimes makes
a whole lot of a difference

like when the prodding works



my work sometimes makes
a whole lot of a difference

* because prodding sometimes is ignored

most regressions remain
unresolved way longer
than Linus wants



The Linux Kernel

7.3.0-rc5

Quick search

Contents

Working with the development community

Development process

Submitting patches

Code of conduct

tion.

Quotes from Linus about regression

The following statements from Linus Torvalds provide some insight into Linux "no regressions" rule and how he expects regressions to be handled:

On how quickly regressions should be fixed

- From [2026-01-22](#):

But [a user complaining should basically result in an immediate fix](#) - possibly a "revert and rethink".

With a later clarification on [2026-01-28](#):

It's also worth noting that "immediate" obviously doesn't mean "right this *second*" when the problem has been reported".

But if it's a regression with a known commit that caused it, I think the [rule of thumb should generally be "within a week", preferably before the next rc](#).

- From [2023-04-21](#):

Known-broken commits either

- * once bisected, within a week, preferably before the next -rc
- * most of the time it takes much longer, as can be seen...

* [MAINTAINERS SUMMIT] Satisfied with the time it takes regressions to be fixed?
@ 2026-07-22 15:27 Thorsten Leemhuis
0 siblings, 0 replies; only message in thread
From: Thorsten Leemhuis @ 2026-07-22 15:27 UTC ([permalink](#) / [raw](#))
To: ksummit

Linus' rule of thumb with regards to fixing regressions that have a known culprit and were reported by a user afaics is: "within a week, preferably before the next rc". He wrote that in January, for the exact words and links to the full mails on lore from January see:
<https://www.kernel.org/doc/html/latest/process/handling-regressions.html#on-how-quickly-regressions-should-be-fixed>

I got the impression that most regressions I track take much longer to get fixed. Which turned out to be the case when looked closer at a recent development cycle, as more than half took more than two weeks to get fixed; the analysis furthermore showed that fixes had usually been available quickly, it just took them some time to get reviewed, committed, and sent to Linus -- among others due to lack of maintainer resources. More details on that below, let me first propose what we might want to discuss the following here and later at the summit:

<https://lore.kernel.org/all/75dc0e2d-2deb-4776-977c-1de7c33465e1@leemhuis.info/>#u

...by a maintainers summit proposal I sent

- * it's finetuning/reviewing, committing, and mainlining what delays things
- * and avoiding reverts, too
- * as fixes often possible within 2 or 3 days through proper fix or revert

- * prodding upsets people
- * many subsystem maintainers were at 125% already
- * due to AI patch influx many seem to be at 150 or 175% now
- * not much backing from Linus, he's a busy bee...
- * and needs to keep people happy, too

- * problem: this affects...

this affects stable series, too!

- * most regressions have to be fixed in mainlined first
- * one of the really frustrating factors when people report 5 or 10 times and fixes exists
- * to work around this...

recently started sending reverts
and fixes directly to Linus



index : kernel/git/torvalds/linux.git

Linux kernel source tree

[about](#) [summary](#) [refs](#) [log](#) [tree](#) **commit** [diff](#) [stats](#)

author [Daniel J Blueman](#) <daniel@quora.org> 2026-09-20 16:16:08 +0200
committer [Linus Torvalds](#) <torvalds@linux-foundation.org> 2026-09-20 11:21:10 -0700
commit [6a5719cc3ef2e4d9857cc4ae18e6db09d59a8cc9](#) (patch)

net: qrtr: resend HELLO on MHI resume

Since the MHI HELLO exchange was relocated, it is sent only at device registration. During a suspend-resume cycle, the firmware in Wifi cards such as WCN7850 indefinitely waits for another HELLO, triggering:

```
ath12k_wifi7_pci 0004:01:00.0: timeout while waiting for restart complete
ath12k_wifi7_pci 0004:01:00.0: failed to resume core: -110
```

Fix this by triggering the handshake from resume_early in the MHI transport.

Validated on Qualcomm X1E-801800 on Lenovo Slim 7x across 10 suspend-resume cycles.

Fixes: [544d85de4dc2](#) ("net: qrtr: Send HELLO message on endpoint register")
Signed-off-by: Daniel J Blueman <daniel@quora.org>
Reviewed-by: Manivannan Sadhasivam <manivannan.sadhasivam@oss.qualcomm.com>
Reported-by: Jeff Johnson <jeff.johnson@oss.qualcomm.com>
Link: <https://lore.kernel.org/all/6257c447-788d-4362-851e-0d552bcf7c56@oss.qualcomm.com/>
Tested-by: Jeff Johnson <jeff.johnson@oss.qualcomm.com>
Reported-by: Vlastimil Babka (SUSE) <vbabka@suse.com>
Link: <https://lore.kernel.org/all/ab1401bb-cca5-4145-ac7d-31c966abf7b4@suse.com/>
Tested-by: Vlastimil Babka (SUSE) <vbabka@kernel.org>
Reported-by: Takashi Iwai <tiwai@suse.de>
Link: <https://lore.kernel.org/all/87a4plsg4w.wl-tiwai@suse.de/>
Tested-by: Takashi Iwai <tiwai@suse.de>
Signed-off-by: [Thorsten Leemhuis](#) <linux@leemhuis.info>
Signed-off-by: [Linus Torvalds](#) <torvalds@linux-foundation.org>

Diffstat

<https://git.kernel.org/torvalds/c/6a5719cc3ef2e4d9857cc4ae18e6db>



index : kernel/git/torvalds/linux.git

Linux kernel source tree

[about](#) [summary](#) [refs](#) [log](#) [tree](#) **[commit](#)** [diff](#) [stats](#)

author Linus Torvalds <torvalds@linux-foundation.org> 2026-09-13 10:18:23 -0700
committer Linus Torvalds <torvalds@linux-foundation.org> 2026-09-13 10:18:23 -0700
commit [d681d7ef617ef83d6a4de36e5cb4418ef602e122](#) (patch)

Merge misc regression fixes that seem to have fallen through the cracks

Thorsten continues to track regressions, and reporting on known issues with fixes that don't seem to make any progress.

I'm going to do an rc3 release later today - let's not keep these known issues pending for yet another rc for no obvious reason.

Reported-by: Thorsten Leemhuis <regressions@leemhuis.info>

Link: <https://lore.kernel.org/all/46403cf8-9a81-4596-87eb-dde58ae4c5db@leemhuis.info/>

* regressions:

media: ipu-bridge: do not use the CVS device lookup for IVSC
wifi: mt76: mt792x: fix NULL dereference in ACPI SAR init during probe
wifi: mt76: mt7921: skip unknown CLC firmware records

[Diffstat](#)

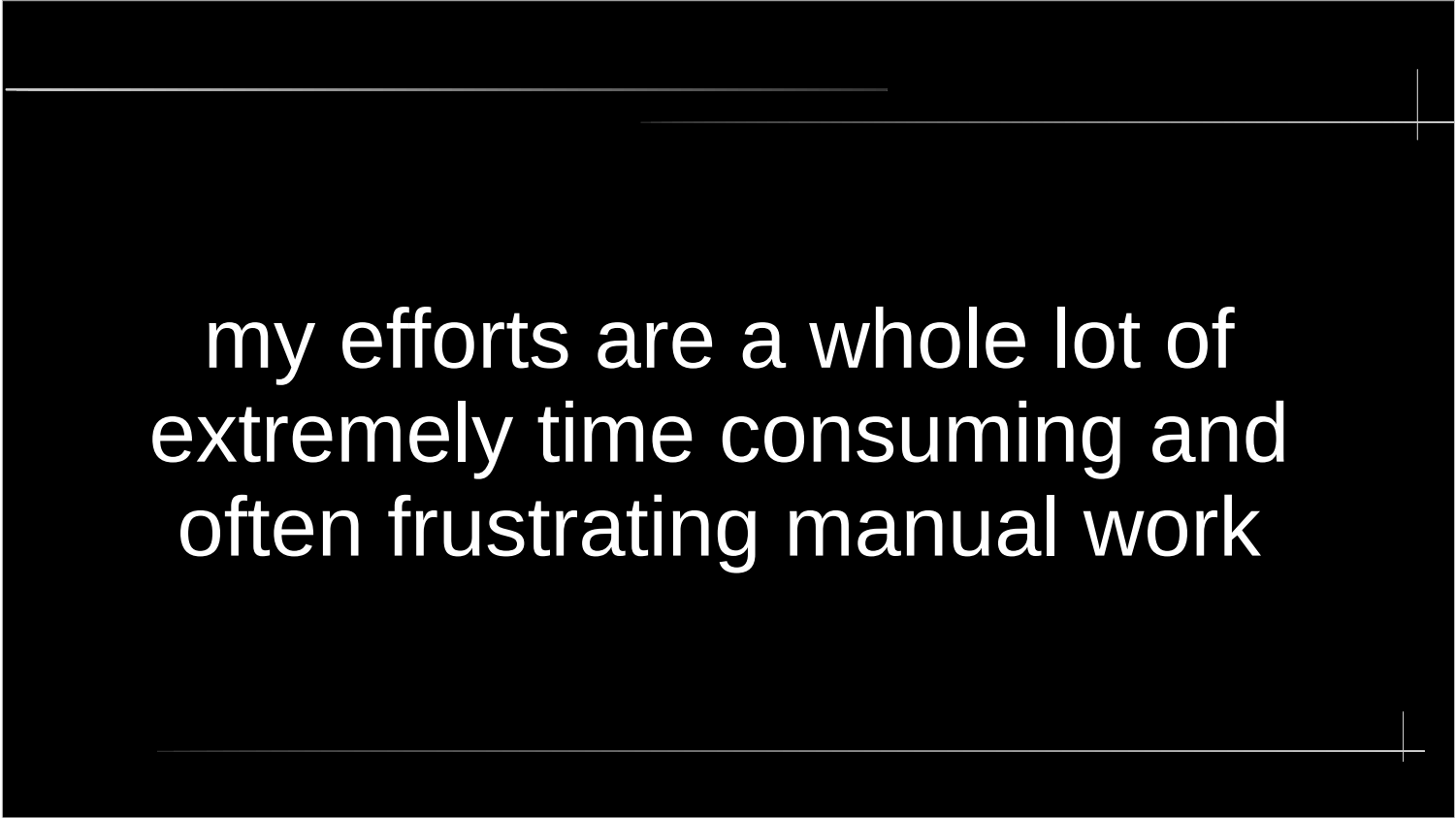
<https://git.kernel.org/torvalds/c/d681d7ef617ef83d6a4de36e5cb4>

- * regularly bypassing subsystems maintainers and their CI is a terrible idea
- * it will definitely really upset someone sooner or later
- * either just like that or by me doing something stupid

- * but guess it is needed to wake a few people up
- * maybe is even a good idea to maintain...

maintain a tree with fixes and reverts for regressions?

- ...a tree with fixes heading upstream and reverts
- * downstreams could benefit a lot from this
- * Arch, Fedora, Tumbleweed, ...
- * if you wanna help, come and talk to me
- * as that leads to even more work for me
- * problem: it not like I don't have enough already...

A black rectangular box with white text. The text is centered and reads: "my efforts are a whole lot of extremely time consuming and often frustrating manual work". There are thin white lines at the top and bottom of the box, and a small white crosshair in the top right corner.

my efforts are a whole lot of
extremely time consuming and
often frustrating manual work

* which leads to the question...

- is Thorsten doing a good job? -

in retrospect, Thorsten
definitely should have done
some things differently

A black rectangular box with white text and thin white lines. The text is centered and reads "too unfocused, tackling too many things". There are thin white lines at the top and bottom of the box, and a small white crosshair in the top right corner.

too unfocused,
tackling too many things

* this borders another factor

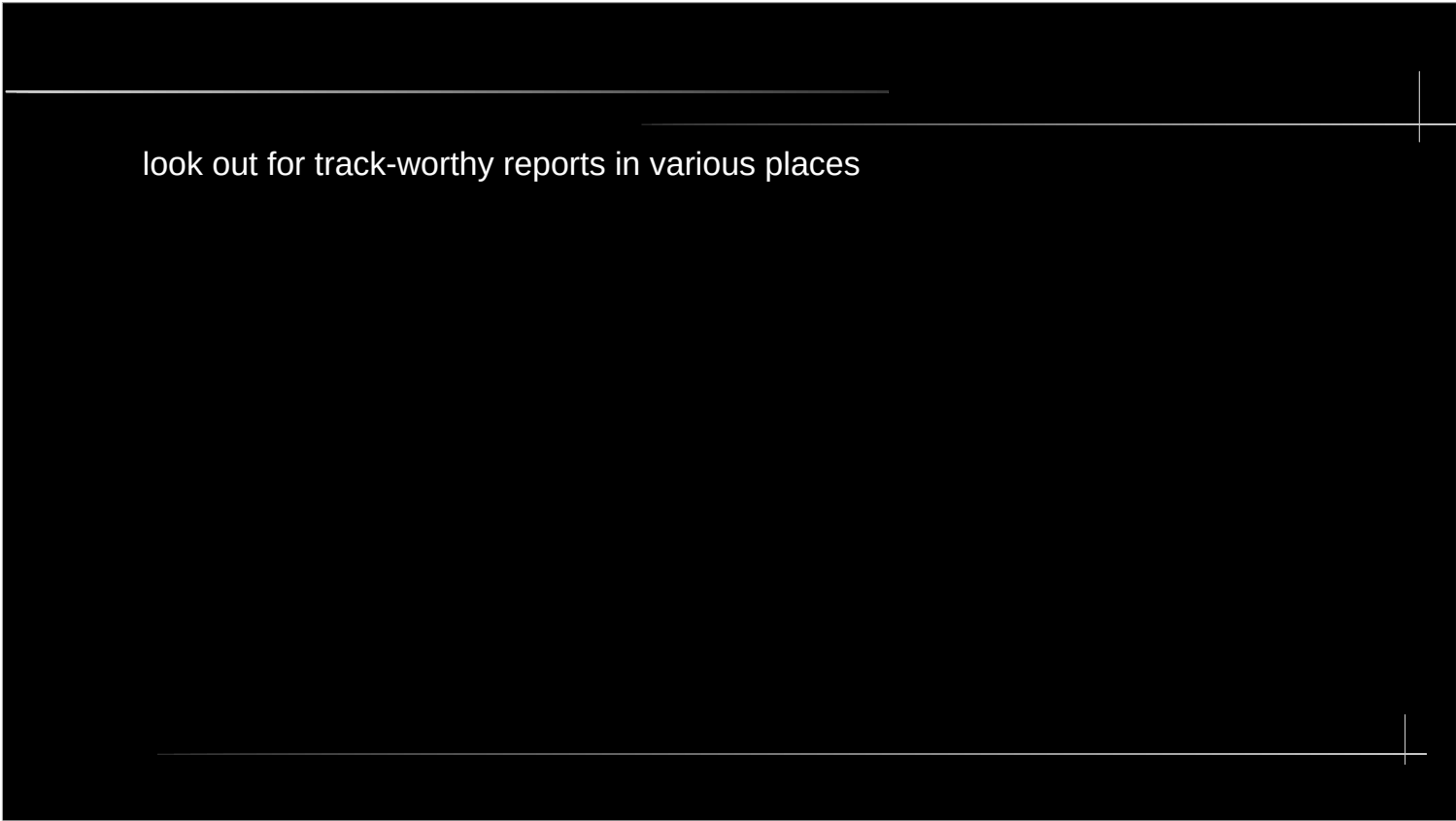
- is the problem space just too big? -

- is the problem space just too big? -
[for one person with no or limited funding for ~10 or 20 h/week]

* as this is what I do...

look out for track-worthy reports in various places and add them to the tracking:
Dozent mailing lists, bugzilla.kernel.org, [github.org/{thesofproject,Rust-for-Linux,...}](https://github.com/theseofproject/Rust-for-Linux),
and gitlab.freedesktop.org/drm/{amd,i915,nouveau,xe,...},
help users improving their reports: ask them to provide needed logs, test mainline, bisect, ...
– and connect them with the appropriate developers
– prod users, developers, and maintainers when things stall
– ideally without increasing work stress for developers and maintainers
handle things regzbot can't detect: misclassifications, duplicates, missing Link:/Closes: tags
be man-in-the-middle for bugzilla.kernel.org; fix the bugzilla messy situation
write status reports for Linus, submit reverts or quirks, prevent regressions from hitting stable
build a community around regressions; get distros involved; improve docs on reporting and
handling bugs/regressions; try to improve process issues; give talks about my work
enhance regzbot; investigate how AI/LLM could facilitate work
and a few other things that came up – all that with limited or no funding at all for long periods

- * no, don't read that
- * I'll highlight...



look out for track-worthy reports in various places

- * can only properly tell Linus state of things and prevent backports of culprits not fixed yet if I look everywhere bugs are reported

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help users improving their reports

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handle things regzbot can't detect

* these four take a whole lot of time every day :-/

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and a few other things that came up – all that with limited or no funding at all for long periods

even simple local LLMs could help a ton

- * not utilized at all yet
- * never found time/motivation to look into this
- * other work always felt more urgent
- * mistake
- * overdue fixing

- * but that will only solve some aspects

it is a lot fighting peculiarities of Linux kernel development

- * many of them make regression tracking and tackling really hard
- * limited resources
- * huge projects normally have multiple people for tasks like this
- * and a central bug tracker
- * defining rules didn't help much
 - * often not or wrongfully known, followed as intended, or ignored completely

regzbot heavily relies on Link:/Closes: tags to the report

Linus wants those:

<https://lore.kernel.org/all/CAHk-=wjMmSZzMJ3Xnskdg4+GGz=5p5p+GSYyFBTh0f-DgvdBWg@mail.gmail.com/>

https://lore.kernel.org/all/CAHk-=wgs38ZrfPvy=nOwVkVzjpM3VFU1zobP37Fwd_h9iAD5JQ@mail.gmail.com/

https://lore.kernel.org/all/CAHk-=wjxzafG-=J8oT30s7upn4RhBs6TX-uVFZ5rME+L5_DoJA@mail.gmail.com/

regzbot heavily relies on
Link:/Closes: tags to the report –
but some subsystem rarely set
or deliberately even remove them!

- * I knew it would be hard when getting into regression tracking
- * but it nevertheless often is quite frustrating, as it makes my efforts really hard every day
- * regression tracking is not the only area where that happens



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But fine, if we want to do this can we please just dumb it down to

Assisted-by: LLM

Jeff Layton later followed this up with [a separate patch](#) removing the attribution requirement entirely. Some developers were clearly in favor of that; [networking maintainer Jakub Kicinski let it be known that he simply removes those tags](#) from patches he applies, essentially undermining the previous decision made by the TAB and the community. Others have not taken that step, but expressed little love for the tag.

There are developers, though, who would like to see its use continue. Greg Kroah-Hartman [described](#) it as a signal that an LLM was involved in the creation of a patch and that the result should

<https://lwn.net/Articles/1083275/>

- * that being said
- * the thing is

everybody is meaning well

everybody is meaning well
and trying their best given the
available resources

- * don't blame anyone
- * I chose this area myself
- * I knew it would be hard and frustrating
- * and nobody would be mad at me if I moved on

- * if I ever do that and you want to revamp things
- * talk to me!
- * I want this to succeed, with or without me

- * anyway, thx...

thx to everyone for your efforts!

- * during work or spare hours
- * much appreciated
- * because even if I sound like this is all really bad,
quite a few regressions...

quite a few regressions are
handled okayish or well

- * TIP folks, Christian with VFS, or Jens with block do a really good job usually
- * there is a whole lot of room to improve from what I see
- * but there are also subsystems where it's not really working; many of them are sub-subsystems

getting closer to what Linus wants
would make Linux a lot more reliable

getting closer to what Linus wants
would make Linux a lot more reliable
especially stable/longterm kernels

- * and stable kernel more stable
- * close to an end
- * question: what does...

- what does Thorsten plan to do? -

heavily scale down tracking & tackling efforts

* need room to breath

hope that me sending fixes
straight to Linus
is a wake-up call to some

investigate how local LLM
can fascilitate my efforts

try one of the better AI offerings
to improve regzbot and/or
create an AI agent to replace it

- * I'll might ask someone for access
- * vegan, don't own a car, hate flying
- * blame media and internet for a lot of bad stuff
- * but AIs are here now

= to summarize =

challenging kernel landscape
became even harder to tackle

it is time to scale down,
rethink, and revamp
regression tracking & tackling

focus on subsystem use-case

focus on subsystem use-case,
make regbzot more autonomous

focus on subsystem use-case,
make regbzot more autonomous,
and see how local LLMs or
an AI agent can facilitate efforts

focus on subsystem use-case,
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and see how local LLMs or
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focus on subsystem use-case,
make regbzot more autonomous,
and see how local LLMs or
an AI agent can facilitate efforts
– or even replace regzbot?

that is the idea
but feel free to tell me something else

funding and help will be needed
kernelCI will evaluate if they continue my sponsoring
and I if 10h week is enough for me

maybe too big of a problem

maybe too big of a problem
for the resources the ecosystem
currently willing to invest

that being said

my efforts definitely help

my efforts definitely help
and brought them a little closer
to what Linus wants

- * and with my new subsystem bypassing efforts I might stir things up enough to get them even closer
- * with more support could do more work
- * funding and additional workforce would be great

= discussion =

so what do you want to discuss?

some things we might want to talk about

- why is it that much human effort?
 - still interest in regression tracking & tackling at all?
 - what do you folks care about most aka what should not be scraped while revamping?
 - how to get closer to what Linus wants?
 - how mainline regressions affect stable kernels
 - should I start a trees with reverts and proposed regression fixes ?
 - further invest in regzbot or create an AI agent?
 - would you be willing to help somewhere?
 - *<insert what's on your mind here>*
-

Thorsten Leemhuis

mail: linux@leemhuis.info

GPG Key: 0x72B6E6EF4C583D2D

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[@knurd42@social.linux.pizza](https://social.linux.pizza/@knurd42) (en)

#EOF
