

A little GitLab won't hurt you

Linux Plumbers Conference 2024

Helen Koike, Nikolai Kondrashov, Tales da Aparecida



Helen Koike

  **[helen.fornazier](https://helen.fornazier.com)**

Senior Software Engineer, Collabora
Former Mesa3D/CI contributor, DRM/CI
maintainer, KernelCI contributor.

Working from Brazil



Nikolai Kondrashov

    [spbnick](#)

Principal Software Engineer, Red Hat
KCIDB developer, TSC chair, KernelCI
Electronics and embedded enthusiast

Born in Russia, living in Finland



Tales da Aparecida

  **tales-aparecida**

Senior Software Engineer, Red Hat
CKI user experience and reliability,
tagging along with them in KernelCI

Working from Brazil

2023 Maintainers Summit



The need for reviewer help in particular came up; Linus Torvalds jumped in to say that reviewing is boring, so it is unsurprising that people don't want to do it. He keeps seeing huge patch sets being sent out once each week with little seeming to happen with them. A few tweaks, perhaps, before the next version is sent, but no real resolution. What is really needed, he said, is to find ways to get away from the email patch model, which is not really working anymore. He feels that way now, even though he is "an old-school email person".



The need for reviewer help in particular came up; **Linus Torvalds** jumped in to say that reviewing is boring, so it is unsurprising that people don't want to do it. He keeps seeing huge patch sets being sent out once each week with little seeming to happen with them. A few tweaks, perhaps, before the next version is sent, but no real resolution. What is really needed, he said, is to find ways to get away from the email patch model, which is not really working anymore. He feels that way now, even though he is "an old-school email person".



The need for reviewer help in particular came up; Linus Torvalds jumped in to say that reviewing is boring, so it is unsurprising that people don't want to do it. He keeps seeing huge patch sets being sent out once each week with little seeming to happen with them. A few tweaks, perhaps, before the next version is sent, but no real resolution. What is really needed, he said, is to find ways to get away from the email patch model, which is not really working anymore. He feels that way now, even though he is "an old-school email person".

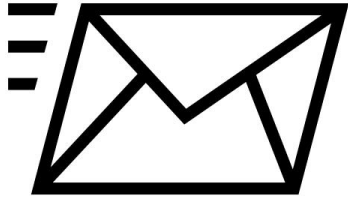


The need for reviewer help in particular came up; Linus Torvalds jumped in to say that reviewing is boring, so it is unsurprising that people don't want to do it. He keeps seeing huge patch sets being sent out once each week with little seeming to happen with them. A few tweaks, perhaps, before the next version is sent, but no real resolution. **What is really needed, he said, is to find ways to get away from the email patch model, which is not really working anymore.** He feels that way now, even though he is "an old-school email person".

The email workflow

KernelCI The email workflow is great

Contributors



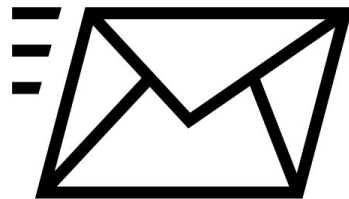
Maintainers



Community

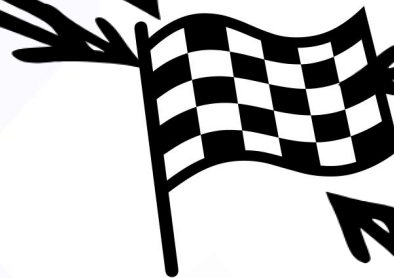


Contributors



Community

Maintainers



The email workflow

with **Patchwork**

Patchwork

daapare

It is definitely a step forward

ALSA development

[View patches](#)

ath10k

[View patches](#)

<http://lists.infradead.org/mailman/listinfo/ath10k>

ath11k

[View patches](#)

<http://lists.infradead.org/mailman/listinfo/ath11k>

System Audit Discussions

[View patches](#)

Linux Backports

[View patches](#)

Bluetooth

[View patches](#)

CEPH development

[View patches](#)

Chrome Platform Drivers

[View patches](#)

CIFS (Samba) Client

[View patches](#)

Patchwork Bluetooth Patches Bundles

Show patches with: State = Action Required | Archi

tracks mailing list interactions

| <input type="checkbox"/> Patch | Series | A/R/T | S/W/F | ▲ Date | Submitter | Delegate | State |
|---|--|-------|--------|------------|------------------------|----------|-------|
| <input type="checkbox"/> pull request: bluetooth 2024-06-10 | pull request: bluetooth 2024-06-10 | --- | --- | 2024-06-10 | Luiz Augusto von Dentz | | New |
| <input type="checkbox"/> Bluetooth: hci_core: cancel | Bluetooth: hci_core: cancel | | | | | | |
| <input type="checkbox"/> rx_work,cmd_work,tx_work,power_on,error_reset works upon hci_unregister... | rx_work,cmd_work,tx_work,power_on,error_reset works upon hci_unregister... | --- | 19 - 2 | 2024-06-10 | Tetsuo Handa | | New |
| <input type="checkbox"/> [BlueZ] mcp: Implement Next Track and Previous Track commands | [BlueZ] mcp: Implement Next Track and Previous Track commands | --- | 12 - - | 2024-06-07 | Yauhen Kharuzhy | | New |
| <input type="checkbox"/> [RFC,v4,4/4] gnss: ai2: replace long sleeps by wait for acks | Bluetooth/gnss: GNSS support for TiWi chips | --- | 4 - 1 | 2024-06-06 | Andreas Kemnade | | New |
| <input type="checkbox"/> [v4,3/4] gnss: Add driver for AI2 protocol | Bluetooth/gnss: GNSS support for TiWi chips | 1 - - | 3 1 1 | 2024-06-06 | Andreas Kemnade | | New |
| <input type="checkbox"/> [v4,2/4] Bluetooth: ti-st: Add GNSS subdevice for TI Wlalink chips | Bluetooth/gnss: GNSS support for TiWi chips | - 1 - | 5 - - | 2024-06-06 | Andreas Kemnade | | New |
| <input type="checkbox"/> [v4,1/4] gnss: Add AI2 protocol used by some TI combo chips | Bluetooth/gnss: GNSS support for TiWi chips | - 1 - | 19 - 2 | 2024-06-06 | Andreas Kemnade | | New |
| <input type="checkbox"/> [v4,4/4] Bluetooth: btusb: mediatek: add ISO data transmission functions | Bluetooth: btusb: MediaTek ISO data transmission | --- | 5 - - | 2024-06-06 | Chris Lu | | New |
| <input type="checkbox"/> [v4,3/4] Bluetooth: btmtk: add macro to get/set/clear MediaTek defined flags | Bluetooth: btusb: MediaTek ISO data transmission | --- | 5 - - | 2024-06-06 | Chris Lu | | New |
| <input type="checkbox"/> [v4,2/4] Bluetooth: btusb: add callback function in btusb suspend/resume | Bluetooth: btusb: MediaTek ISO data transmission | --- | 5 - - | 2024-06-06 | Chris Lu | | New |
| <input type="checkbox"/> [v4,1/4] Bluetooth: net: add hci_iso_hdr function for iso data | Bluetooth: btusb: MediaTek ISO data transmission | --- | 19 - 2 | 2024-06-06 | Chris Lu | | New |
| <input type="checkbox"/> [BlueZ,2/2] test-bap: Add Broadcast Source STR MBIS tests | test-bap: Add Broadcast Source STR MBIS tests | --- | 4 - - | 2024-06-06 | Iulia Tanasescu | | New |
| <input type="checkbox"/> [BlueZ,1/2] test-bap: Add support to config multiple bsrc streams | test-bap: Add Broadcast Source STR MBIS tests | --- | 12 - - | 2024-06-06 | Iulia Tanasescu | | New |

Patchwork Bluetooth Patches Bundles

Show patches with: State = Action Required | Archi

both from humans

| <input type="checkbox"/> Patch | Series | A/R/T | S/W/F | ▲ Date | Submitter | Delegate | State |
|---|--|-------|--------|------------|------------------------|----------|-------|
| <input type="checkbox"/> pull request: bluetooth 2024-06-10 | pull request: bluetooth 2024-06-10 | --- | --- | 2024-06-10 | Luiz Augusto von Dentz | | New |
| <input type="checkbox"/> Bluetooth: hci_core: cancel rx_work,cmd_work,tx_work,power_on,error_reset works upon hci_unregister... | Bluetooth: hci_core: cancel rx_work,cmd_work,tx_work,power_on,error_reset works upon hci_unregister... | --- | 19 - 2 | 2024-06-10 | Tetsuo Handa | | New |
| <input type="checkbox"/> [BlueZ] mcp: Implement Next Track and Previous Track commands | [BlueZ] mcp: Implement Next Track and Previous Track commands | --- | 12 - - | 2024-06-07 | Yauhen Kharuzhy | | New |
| <input type="checkbox"/> [RFC,v4,4/4] gnss: ai2: replace long sleeps by wait for acks | Bluetooth/gnss: GNSS support for TiWi chips | --- | 4 - 1 | 2024-06-06 | Andreas Kemnade | | New |
| <input type="checkbox"/> [v4,3/4] gnss: Add driver for AI2 protocol | Bluetooth/gnss: GNSS support for TiWi chips | 1 - - | 3 1 1 | 2024-06-06 | Andreas Kemnade | | New |
| <input type="checkbox"/> [v4,2/4] Bluetooth: ti-st: Add GNSS subdevice for TI Wlalink chips | Bluetooth/gnss: GNSS support for TiWi chips | - 1 - | 5 - - | 2024-06-06 | Andreas Kemnade | | New |
| <input type="checkbox"/> [v4,1/4] gnss: Add AI2 protocol used by some TI combo chips | Bluetooth/gnss: GNSS support for TiWi chips | - 1 - | 19 - 2 | 2024-06-06 | Andreas Kemnade | | New |
| <input type="checkbox"/> [v4,4/4] Bluetooth: btusb: mediatek: add ISO data transmission functions | Bluetooth: btusb: MediaTek ISO data transmission | --- | 5 - - | 2024-06-06 | Chris Lu | | New |
| <input type="checkbox"/> [v4,3/4] Bluetooth: btmtk: add macro to get/set/clear MediaTek defined flags | Bluetooth: btusb: MediaTek ISO data transmission | --- | 5 - - | 2024-06-06 | Chris Lu | | New |
| <input type="checkbox"/> [v4,2/4] Bluetooth: btusb: add callback function in btusb suspend/resume | Bluetooth: btusb: MediaTek ISO data transmission | --- | 5 - - | 2024-06-06 | Chris Lu | | New |
| <input type="checkbox"/> [v4,1/4] Bluetooth: net: add hci_iso_hdr function for iso data | Bluetooth: btusb: MediaTek ISO data transmission | --- | 19 - 2 | 2024-06-06 | Chris Lu | | New |
| <input type="checkbox"/> [BlueZ,2/2] test-bap: Add Broadcast Source STR MBIS tests | test-bap: Add Broadcast Source STR MBIS tests | --- | 4 - - | 2024-06-06 | Iulia Tanasescu | | New |
| <input type="checkbox"/> [BlueZ,1/2] test-bap: Add support to config multiple bsrc streams | test-bap: Add Broadcast Source STR MBIS tests | --- | 12 - - | 2024-06-06 | Iulia Tanasescu | | New |

Acked-by
 Reviewed-by
 Tested-by

Patchwork Bluetooth Patches Bundles daapare ▾

Show patches with: State = Action Required | Archi

and from testing systems

| <input type="checkbox"/> Patch | Series | A/R/T | S/W/F | ▲ Date | Submitter | Delegate | State |
|---|--|-------|--------------|------------|-----------------|----------|-------|
| <input type="checkbox"/> pull request: bluetooth 2024-06-10 | pull request: bluetooth 2024-06-10 | --- | --- | 2024-06-10 | Luiz Augusto | | New |
| <input type="checkbox"/> Bluetooth: hci_core: cancel | Bluetooth: hci_core: cancel | --- | 19 - 2 | | | | New |
| <input type="checkbox"/> rx_work,cmd_work,tx_work,power_on,error_reset works upon hci_unregister... | rx_work,cmd_work,tx_work,power_on,error_reset works upon hci_unregister... | --- | 19 - 2 | | | | New |
| <input type="checkbox"/> [BlueZ] mcp: Implement Next Track and Previous Track commands | [BlueZ] mcp: Implement Next Track and Previous Track commands | --- | 12 - - | | | | New |
| <input type="checkbox"/> [RFC,v4,4/4] gnss: ai2: replace long sleeps by wait for acks | Bluetooth/gnss: GNSS support for TiWi chips | --- | 4 - 1 | 2024-06-06 | Andreas Kemnade | | New |
| <input type="checkbox"/> [v4,3/4] gnss: Add driver for AI2 protocol | Bluetooth/gnss: GNSS support for TiWi chips | 1 - - | 3 1 1 | 2024-06-06 | Andreas Kemnade | | New |
| <input type="checkbox"/> [v4,2/4] Bluetooth: ti-st: Add GNSS subdevice for TI Wlalink chips | Bluetooth/gnss: GNSS support for TiWi chips | - 1 - | 5 - - | 2024-06-06 | Andreas Kemnade | | New |
| <input type="checkbox"/> [v4,1/4] gnss: Add AI2 protocol used by some TI combo chips | Bluetooth/gnss: GNSS support for TiWi chips | - 1 - | 19 - 2 | 2024-06-06 | Andreas Kemnade | | New |
| <input type="checkbox"/> [v4,4/4] Bluetooth: btusb: mediatek: add ISO data transmission functions | Bluetooth: btusb: MediaTek ISO data transmission | --- | 5 - - | 2024-06-06 | Chris Lu | | New |
| <input type="checkbox"/> [v4,3/4] Bluetooth: btmtk: add macro to get/set/clear MediaTek defined flags | Bluetooth: btusb: MediaTek ISO data transmission | --- | 5 - - | 2024-06-06 | Chris Lu | | New |
| <input type="checkbox"/> [v4,2/4] Bluetooth: btusb: add callback function in btusb suspend/resume | Bluetooth: btusb: MediaTek ISO data transmission | --- | 5 - - | 2024-06-06 | Chris Lu | | New |
| <input type="checkbox"/> [v4,1/4] Bluetooth: net: add hci_iso_hdr function for iso data | Bluetooth: btusb: MediaTek ISO data transmission | --- | 19 - 2 | 2024-06-06 | Chris Lu | | New |
| <input type="checkbox"/> [BlueZ,2/2] test-bap: Add Broadcast Source STR MBIS tests | test-bap: Add Broadcast Source STR MBIS tests | --- | 4 - - | 2024-06-06 | Iulia Tanasescu | | New |
| <input type="checkbox"/> [BlueZ,1/2] test-bap: Add support to config multiple bsrc streams | test-bap: Add Broadcast Source STR MBIS tests | --- | 12 - - | 2024-06-06 | Iulia Tanasescu | | New |

Success
Warning
Fail

Patchwork Bluetooth

Patches

Bundles

daapare

even show detailed testing reports

[v4,3/4] gnss: Add driver for AIZ protocol

1000079 am mbox series

Message ID 20240606183032.684481-4-andreas@kernnade.info (mailing list archive)

State New

Headers [show](#)

Series [Bluetooth/gnss: GNSS support for TiWi chips | expand](#)

Bundling

Create bundle:

Create

Checks

| Context | Check | Description |
|--------------------------|---------|---|
| tedd_an/pre-ci_am | success | Success |
| tedd_an/CheckPatch | warning | WARNING: added, moved or deleted file(s), does MAINTAINERS need updating? #139: new file mode 100644 total: 0 errors, 1 warnings, 551 lines checked NOTE: For some of the reported defects, checkpatch may be able to mechanically convert to the typical style using --fix or --fix-inplace. /github/workspace/src/src/13688879.patch has style problems, please review. NOTE: Ignored message types: UNKNOWN_COMMIT_ID NOTE: If any of the errors are false positives, please report them to the maintainer, see CHECKPATCH in MAINTAINERS. |
| tedd_an/GitLint | success | Gitlint PASS |
| tedd_an/SubjectPrefix | fail | "Bluetooth: " prefix is not specified in the subject |
| tedd_an/IncrementalBuild | success | Incremental Build PASS |

What is the next best thing?



KernelCI There's more than one way to skin pet a cat

<https://lwn.net/Articles/952675/>

kernel developers and maintainers, don't claim that mail clients are good for *tracking* the status of patches. That's why we have **patchwork** and other similar tools, and **git forges** do a reasonable job there too compared to mail clients. When it comes to *reviewing* code, however, web-based UIs are just terrible.

<https://lwn.net/Articles/952666/>

"One of the things that doesn't seem to have been mentioned in this discussion is how off-putting the email format is for the non-initiated... the kernel developer community might want to take a look at **Gerrit**"

<https://lwn.net/Articles/952699/>

The kernel community needs to agree and adapt single point of entry and use for it's community and development and move it's development to the place where people reside these days (like **Github**) to attract new contributors.

<https://lwn.net/Articles/952688/>

SourceHut has an interesting patch UI layered on top of email, coupled with the "hut" command line tool that allows patches to be merged directly from the message list id. The **Forgejo** (fork of Gitea used at Codeberg) folks are trying to create a forge-neutral format for messages like Pull Requests...

<https://lwn.net/Articles/952702/>

Github as a solution feels like a non-starter...recall that git itself was a response to closed/commercial vcs. Github also introduces governance issues for user accounts etc all in the hands if a commercial entity, which also seems unacceptable. I would recommend something like a **Gitea** or **Forgejo**.

<https://lwn.net/Articles/952943/>

I'd love to see a good distributed code review tool... The only example I know of is github.com/google/**git-appraise**. Perhaps it's the only one cause it's good enough, and we all should get behind it?



KernelCI There's more than one way to skin pet a cat

<https://lwn.net/Articles/952675/>

kernel developers and maintainers, don't claim that mail clients are good for *tracking* the status of patches. That's why we have **patchwork** and other similar tools, and **git forges** do a reasonable job there too compared to mail clients. When it comes to *reviewing* code, however, web-based UIs are just terrible.

<https://lwn.net/Articles/952666/>

"One of the things that doesn't seem to have been mentioned in this discussion is how off-putting the email format is for the non-initiated... the kernel developer community might want to take a look at **Gerrit**"

<https://lwn.net/Articles/952699/>

The kernel community needs to agree and adapt single point of entry and use for it's community and development and move it's development to the place where people reside these days (like **GitHub**) to attract new contributors.

<https://lwn.net/Articles/952688/>

SourceHut has an interesting patch UI layered on top of email, coupled with the "hut" command line tool that allows patches to be merged directly from the message list id. The **Forgejo** (fork of Gitea used at Codeberg) folks are trying to create a forge-neutral format for messages like Pull Requests...

<https://lwn.net/Articles/952702/>

GitHub as a solution feels like a non-starter...recall that git itself was a response to closed/commercial vcs. GitHub also introduces governance issues for user accounts etc all in the hands of a commercial entity, which also seems unacceptable.

I would recommend something like a **Gitea** or **Forgejo**.

<https://lwn.net/Articles/952943/>

I'd love to see a good distributed code review tool... The only example I know of is **github.com/google/git-appraise**. Perhaps it's the only one cause it's good enough, and we all should get behind it?

<https://lwn.net/Articles/952798/>

As far as I can tell, the kernel community doesn't feel a need to attract more contributors. And that seems right to me!

Linux is dominant, so lots of people have to contribute to the kernel to get their job done, so *there's no need to attract more.*



<https://lwn.net/Articles/952937/>

Western Civilization is collapsing, the majority of young people *are useless for mankind*, but there are still enough bright people who may still do many great things.

<https://lwn.net/Articles/953136/>

Half of the population has an IQ less than 100. Has always been like that. You are just getting old and grumpy.

What is the next best thing?

We like Git forges.



KernelCI Which Git forge to use?

- Gitea
- Forgejo
- Gerrit
- SourceHut
- GitHub
- GitLab
- Other: _____
- All of the above



KernelCI Which Git forge to use?

All performance results

● 0-49 ● 50-89 ● 90-100

| | Bitbucket | Codeberg | GitHub | GitLab | Pagure | SourceHut |
|--|-----------|----------|--------|--------|--------|-----------|
| Browsing Git repositories | | | | | | |
| Summary page | 33 | 88 | 67 | 58 | 76 | 100 |
| Tree (best case) | 28 | 89 | 67 | 58 | 92 | 100 |
| Tree (worst case) | 19 | 9 | 49 | 33 | 55 | 86 |
| Log (best case) | 36 | 96 | 47 | 59 | 83 | 100 |
| Log (worst case) | 36 | 94 | 47 | 57 | 0 | 90 |
| Commit | 32 | 97 | 74 | 61 | 69 | 100 |
| Source file (best case) | 0 | 75 | 43 | 55 | 77 | 100 |
| Source file (worst case) | 0 | 8 | 49 | 54 | 42 | 97 |
| Blame (best case) | 61 | 47 | 64 | 64 | 54 | 100 |
| Blame (worst case) | 0 | 0 | n/a | 51 | 0 | 0 |
| Browsing tickets/issues | | | | | | |
| Browsing | 55 | 93 | 90 | 50 | 91 | 100 |
| Search | 55 | 93 | 87 | 52 | 88 | 100 |
| Details and comments | 56 | 49 | 71 | 50 | 71 | 100 |
| Code review | | | | | | |
| Browsing patches | 0 | 90 | 84 | 55 | 82 | 100 |
| Patch discussion | 25 | 95 | 70 | 51 | 62 | 100 |
| Patch diff | 25 | 85 | 59 | 50 | 60 | 100 |

What is the next best thing?

We like Git forges.

We like GitLab.



KernelCI Some just keep a mirror there

AppArmor / apparmor-kernel



apparmor-kernel



☆ Star

5

🍴 Fork

10

More actions ▾

Project information

Development for the apparmor kernel module. The official tree used for upstream pull requests, and tracking of apparmor-next will remain at [git://git.kernel.org/pub/scm/linux/kernel/git/jj/linux-apparmor](https://git.kernel.org/pub/scm/linux/kernel/git/jj/linux-apparmor)



🔗 1,233,458 Commits 🌿 10 Branches 🏷️ 0 Tags



README








LICENSE

KernelCI Some just keep a mirror there

drm / NVIDIA Tegra DRM kernel driver

N NVIDIA Tegra DRM kernel driver 

  Star 0  Fork 1  More actions 

Project information



 1,169,986 Commits  3 Branches  11 Tags

 README  LICENSE

Created on

September 27, 2021

KernelCI Some also track issues

🏠 drm / nouveau / Issues

New issue

Open 234 Closed 115 All 349

🕒 Search or filter results... 🔍

Created date ▾ ⚙️

📄 **WARNING at kernel/workqueue.c __queue_work.part.0**

#365 · created 14 minutes ago by Denis Lisov

📄 **Suspend hang after kernel version 6.7**

#364 · created 3 days ago by Ioannis Kozanitis

regression

🗨️ 2

updated 3 days ago

KernelCI Some also track issues

drum / xe / xe kernel driver / Issues

New issue

Open 482 Closed 1,565 All 2,047



Search or filter results...



Created date



few xe tests - dmesg-warn/abort - WARNING: CPU* PID* at drivers/gpu/drm/xe /xe_guc_submit.c* guc_exec_queue_run_job+0x4f1/0x1400



#2056 · created 42 minutes ago by Daniel Stenka

feature: GEM

platform: ADL_P

platform: DG2

platform: LNL

platform: PVC

Few KMS tests - dmesg-fail/dmesg-warn - Overflow of CRC buffer, userspace reads too slow



KernelCI Some also track issues

🏠 drm / i915 / 🐞 kernel / Issues

New issue

Open 911 Closed 10,320 All 11,231

🕒 Search or filter results... 🔍

Created date ▾ ⚙️

📄 Intel Arc A770 not loading Unigine Superposition benchmark

updated 7 minutes ago

#11331 · created 8 minutes ago by Ionut Nechita

📄 igt@i915_selftest@live@gt_lrc - dmesg-fail - live_lrc_timestamp failed with error -22

🗨️ 1

#11330 · created 49 minutes ago by Adela Rybak

BAT_BUG feature: GEM platform: RPL_P



drm / xe / xe kernel driver / Pipelines / #974319

drm/xe: Convert remaining instances of ttm_eu_reserve_buffers to drm_exec

Passed Thomas Hellström created pipeline for commit `fcdfc967` 9 months ago, finished 9 months ago

Related merge request [!355](#) to merge [xe_drm_exec](#)

latest [merge request](#) 3 jobs 8 minutes 17 seconds, queued for 8 seconds

Pipeline Needs Jobs 3 Tests 0

lint

✓ lint-checkpatch-job

✓ lint-docs-job

build

✓ build-job

KernelCI Others use the CI

linux-media / media-staging / Pipelines / #1190886

media: imon: Fix race getting ictx->lock

✓ Passed **** created pipeline for commit 24147897 1 week ago, finished 1 week ago

For `master`

🕒 15 jobs ⌚ 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72




















Group jobs by



KernelCI And some use MRs

drm / msm / Merge requests

Open 1 Merged 79 Closed 37 All 117

|  Search or filter results... | Updated date   |
|---|--|
| DRM MSM fixes for 6.10 !116 · created 5 days ago by Abhinav Kumar | Merged    8  updated 4 days ago |
| python fix for drm msm 6.10 !115 · created 2 weeks ago by Abhinav Kumar  msm-fixes | Merged   2  updated 1 week ago |
| drm/msm: GPU updates for v6.10 !113 · created 1 month ago by Rob Clark | Merged  1  updated 1 month ago |
| drm/msm: display changes for 6.10 !110 · created 1 month ago by Dmitry Baryshkov | Merged  4 ✓ Approved  updated 1 month ago |
| drm/msm: pre-merge tag from linux-phy for 6.10 !109 · created 2 months ago by Dmitry Baryshkov | Merged  updated 1 month ago |
| drm/msm: gpu fixes for v6.9 !107 · created 2 months ago by Rob Clark  msm-fixes | Merged  1  updated 2 months ago |

KernelCI And some use MRs... a lot!

Red Hat / centos-stream / src / kernel / centos-stream-9 / Merge requests

Open 258 Merged 3,501 Closed 684 All 4,443

Search or filter results... Created date

Draft: redhat/configs: automotive: enable DM-VERITY

!4462 · created 3 minutes ago by Lucas Karpinski

Bugzilla OK CKI Running CKI_Automotive Running CommitRefs OK Dependencies OK Fixes OK
JIRA InProgress Merge OK Signoff OK Subsystem:automotive

7 0 of 4 Approvals updated 3 minutes ago

Draft: redhat/configs: automotive: enable mtd and pstore configs

!4461 · created 7 minutes ago by Lucas Karpinski

Bugzilla NeedsReview CKI Running CKI_Automotive Running CommitRefs OK Dependencies OK
Fixes OK JIRA Missing Merge OK Signoff OK Subsystem:automotive

7 0 of 4 Approvals updated 4 minutes ago

Draft: USB/TB code rebase of supported drivers to upstream v6.9

!4460 · created 1 hour ago by Desnes Nunes

Bugzilla OK CKI Failed CKI_64k::Failed build CKI_Automotive Warning CKI_CentOS::Failed build
CKI_RHEL::Failed build CKI_RT::Failed build CommitRefs OK Dependencies OK Fixes OK JIRA InProgress
Merge OK Signoff OK Subsystem:extcon Subsystem:phy Subsystem:pinctrl Subsystem:qcom
Subsystem:thunderbolt Subsystem:usb

7 0 of 4 Approvals updated 39 minutes ago

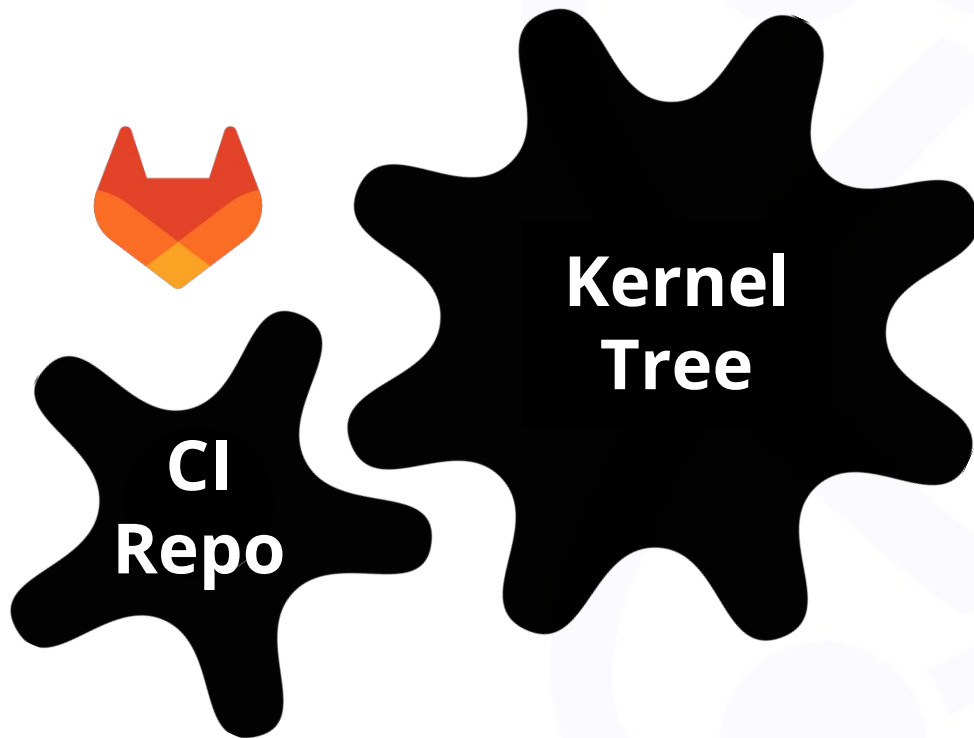
Let's focus on CI

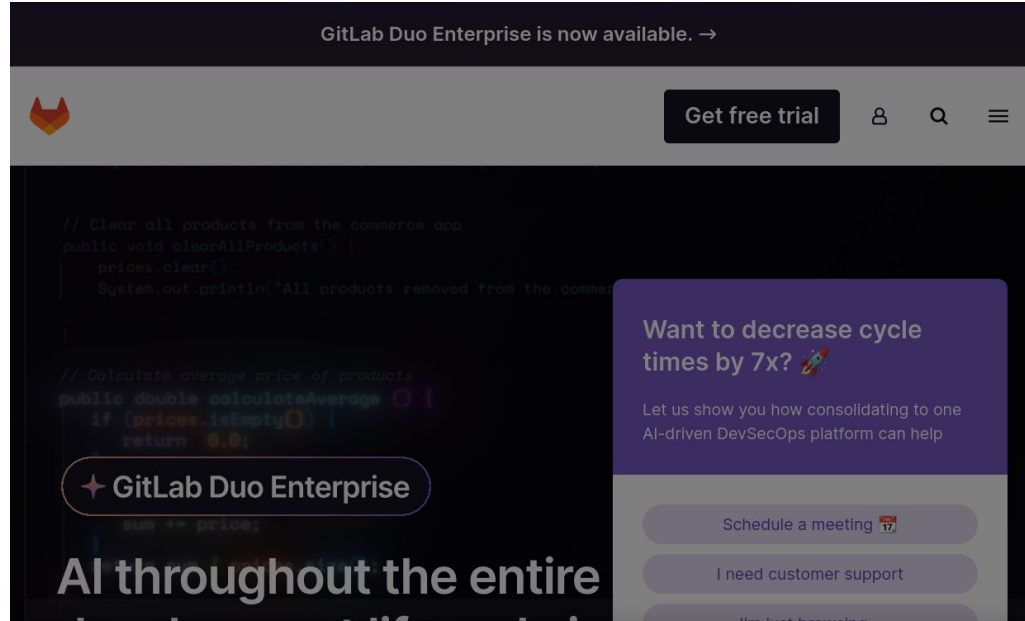
Let's focus on CI



diy guide gitlab ci for kernel







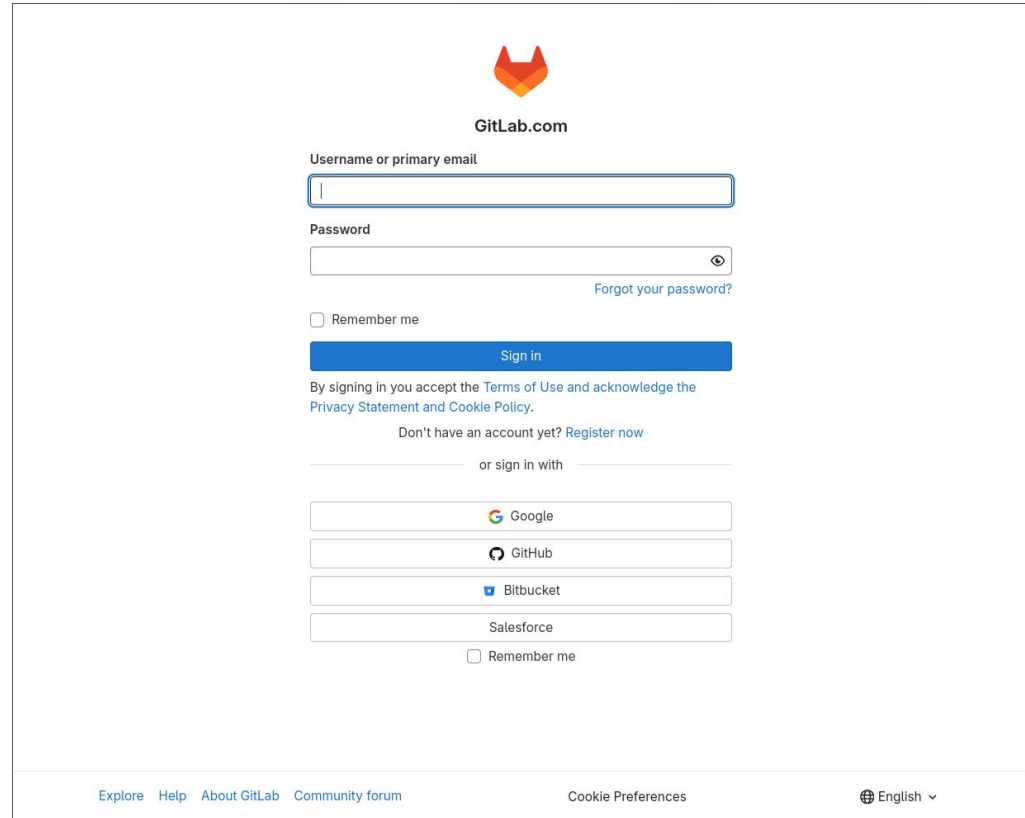
This website uses cookies

We use cookies to make our websites and services operate correctly, to understand how visitors engage with us and to improve our product and marketing efforts. See our cookie policy for more information. [Cookie Policy](#)

[Cookies Settings](#)

Accept All Cookies

Create a GitLab account

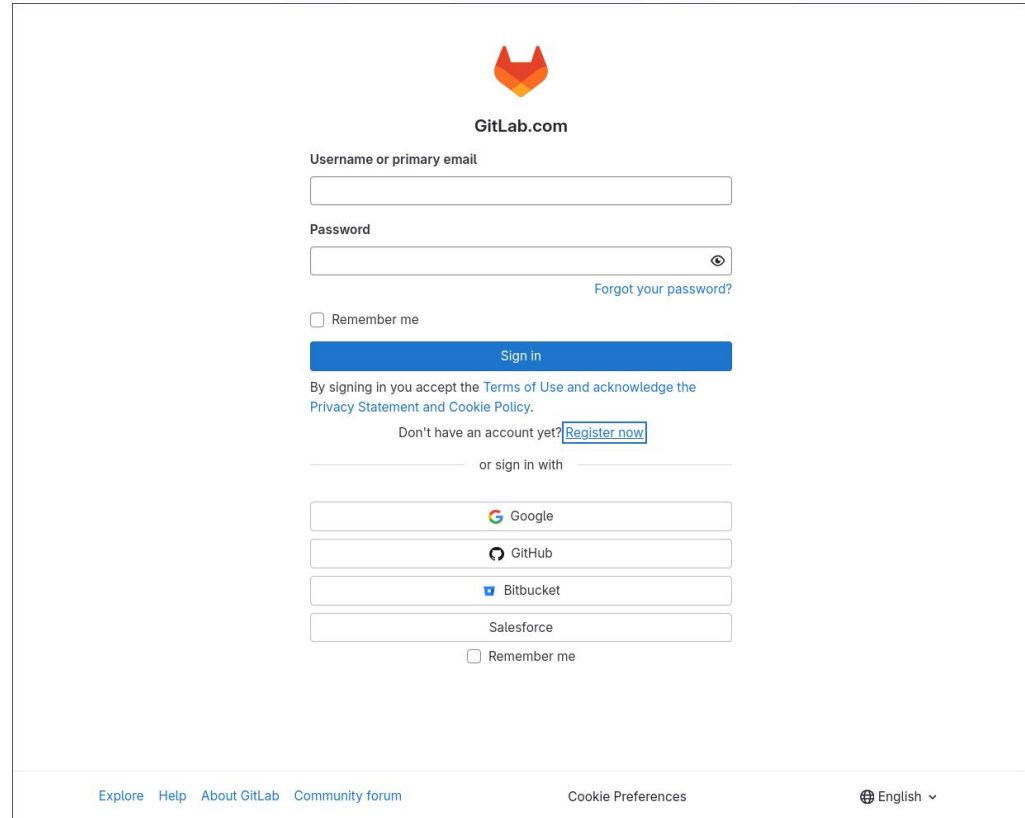


The screenshot shows the GitLab.com sign-in page. At the top center is the GitLab logo (an orange fox head) and the text "GitLab.com". Below this is a form with the following elements:

- A label "Username or primary email" above a text input field.
- A label "Password" above a password input field with an eye icon for toggling visibility.
- A link "Forgot your password?" below the password field.
- A checkbox labeled "Remember me".
- A blue "Sign in" button.
- A paragraph: "By signing in you accept the [Terms of Use](#) and acknowledge the [Privacy Statement](#) and [Cookie Policy](#)."
- A link: "Don't have an account yet? [Register now](#)".
- A separator line with the text "or sign in with" in the center.
- Four social login buttons: "Google", "GitHub", "Bitbucket", and "Salesforce".
- A checkbox labeled "Remember me" at the bottom of the social login section.

At the bottom of the page, there is a footer with the following links: "Explore", "Help", "About GitLab", "Community forum", "Cookie Preferences", and "English" with a dropdown arrow.

Create a GitLab account



The screenshot shows the GitLab.com sign-in page. At the top center is the GitLab logo (an orange fox head) and the text "GitLab.com". Below this are two input fields: "Username or primary email" and "Password". The password field has a toggle icon for visibility. A link "Forgot your password?" is located below the password field. There is a checkbox for "Remember me" and a blue "Sign in" button. Below the button, a line of text states: "By signing in you accept the Terms of Use and acknowledge the Privacy Statement and Cookie Policy." Below this is a link "Don't have an account yet? Register now". A separator line with "or sign in with" follows. There are four buttons for social login: "Google", "GitHub", "Bitbucket", and "Salesforce". A second "Remember me" checkbox is at the bottom of the social login section. At the very bottom of the page, there is a footer with links: "Explore", "Help", "About GitLab", "Community forum", "Cookie Preferences", and "English" with a dropdown arrow.

GitLab.com

Username or primary email

Password

[Forgot your password?](#)

Remember me

Sign in

By signing in you accept the [Terms of Use](#) and acknowledge the [Privacy Statement](#) and [Cookie Policy](#).

Don't have an account yet? [Register now](#)

or sign in with

Google

GitHub

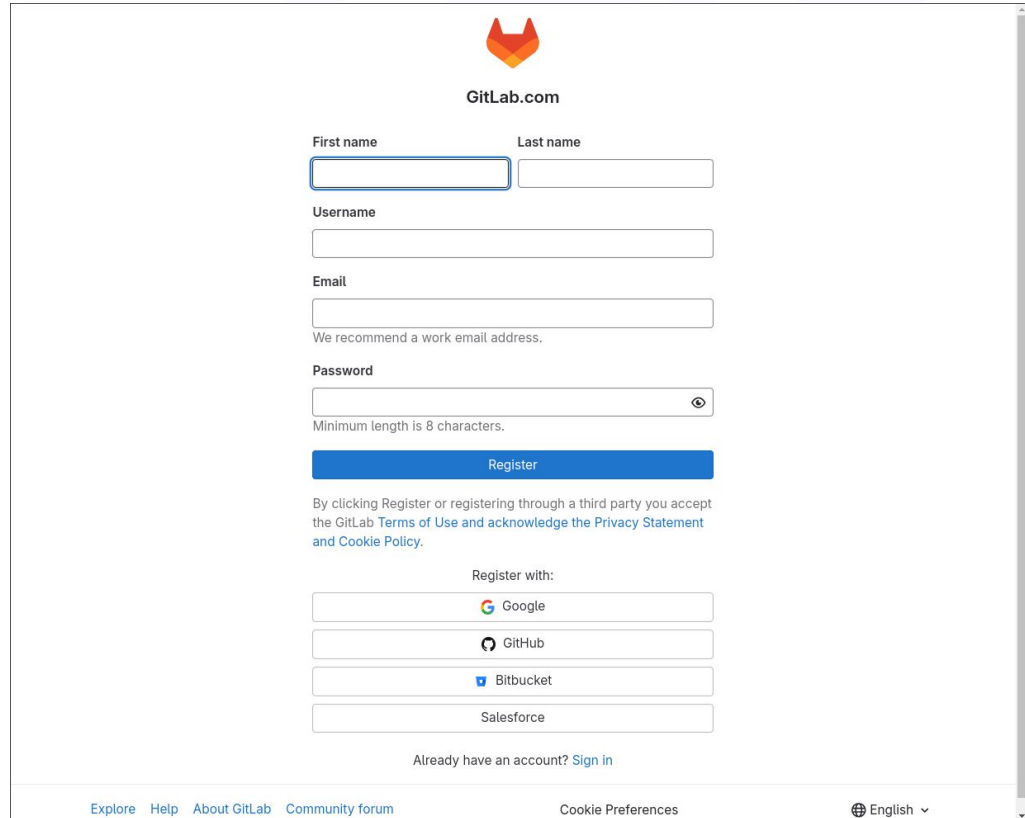
Bitbucket

Salesforce

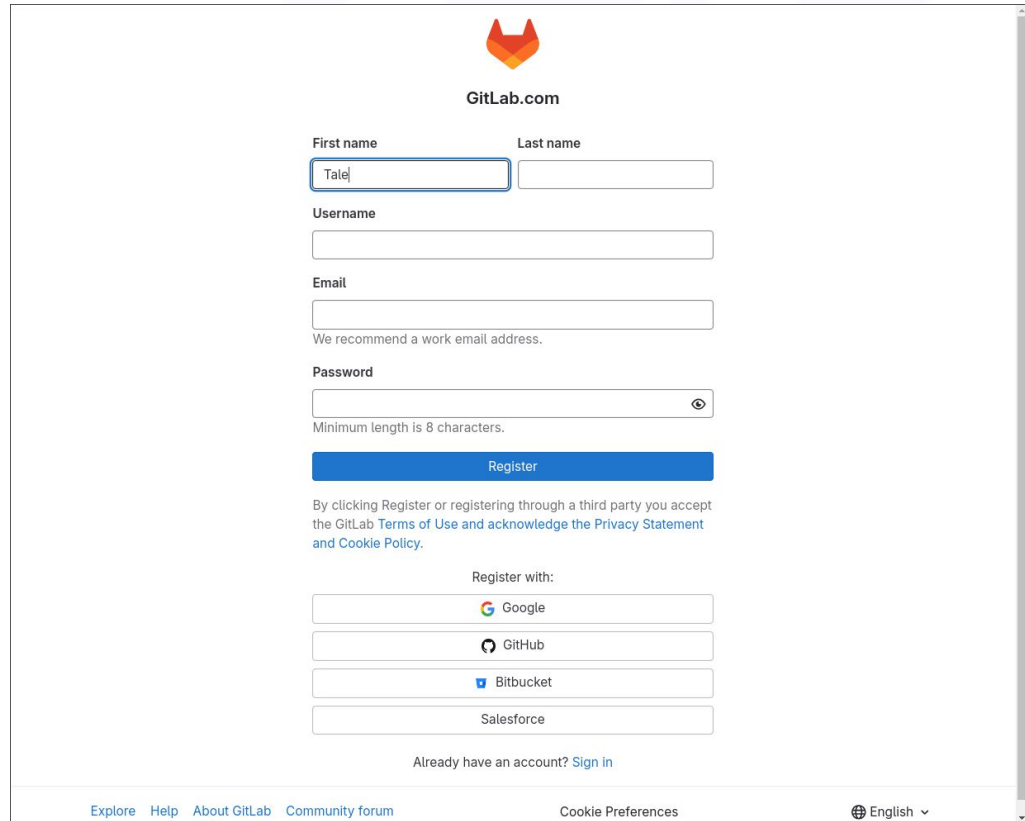
Remember me

[Explore](#) [Help](#) [About GitLab](#) [Community forum](#) [Cookie Preferences](#) [English](#)

Create a GitLab account



The screenshot shows the GitLab.com registration page. At the top center is the GitLab logo (an orange fox head) and the text "GitLab.com". Below this are two input fields for "First name" and "Last name". The "First name" field is currently selected with a blue border. Below these are fields for "Username" and "Email". Under the "Email" field, there is a note: "We recommend a work email address." Below that is a "Password" field with a toggle icon on the right. Underneath the password field, it says "Minimum length is 8 characters." A prominent blue "Register" button is centered below the password field. Below the button, there is a paragraph of text: "By clicking Register or registering through a third party you accept the GitLab [Terms of Use](#) and acknowledge the [Privacy Statement](#) and [Cookie Policy](#)." Below this text is a section titled "Register with:" followed by four buttons for "Google", "GitHub", "Bitbucket", and "Salesforce". At the bottom of the form area, there is a link: "Already have an account? [Sign in](#)". The footer of the page contains navigation links: "Explore", "Help", "About GitLab", "Community forum", "Cookie Preferences", and a language selector "English" with a dropdown arrow.



The screenshot shows the GitLab.com registration page. At the top center is the GitLab logo (an orange fox head) and the text "GitLab.com". Below this are two input fields for "First name" and "Last name". The "First name" field contains the text "Tale". Below these are fields for "Username" and "Email". Under the "Email" field, there is a note: "We recommend a work email address." Below that is a "Password" field with a minimum length requirement of 8 characters. A blue "Register" button is positioned below the password field. Underneath the button, there is a paragraph of text: "By clicking Register or registering through a third party you accept the GitLab Terms of Use and acknowledge the Privacy Statement and Cookie Policy." Below this text are four buttons for "Register with:" "Google", "GitHub", "Bitbucket", and "Salesforce". At the bottom of the form area, there is a link: "Already have an account? Sign in". The footer of the page contains navigation links: "Explore", "Help", "About GitLab", "Community forum", "Cookie Preferences", and a language selector set to "English".



KernelCI Create a GitLab account

Recommended:

- **Two-factor authentication:** [gitlab.com/-/profile/two factor auth](https://gitlab.com/-/profile/two_factor_auth)
- **Add SSH key:** [gitlab.com/-/user settings/ssh keys](https://gitlab.com/-/user_settings/ssh_keys)



KernelCI Create a CI repository

```
~ $ mkdir tree-ci  
~ $ cd $_
```

Create a folder



KernelCI Create a CI repository

```
~ $ mkdir tree-ci  
~ $ cd $_  
~/tree-ci $ git init  
Initialized empty Git repository in /home/tdaapare/tree-ci/.git/
```

Init the repo



```
~ $ mkdir tree-ci
~ $ cd $_
~/tree-ci $ git init
Initialized empty Git repository in /home/tdaapare/tree-ci/.git/
~/tree-ci $ git commit --allow-empty -m "Init repo"
[main (root-commit) dc6981ee6f7f] Init repo
```

Add at least one commit



KernelCI Create a CI repository

```
~ $ mkdir tree-ci
~ $ cd $_
~/tree-ci $ git init
Initialized empty Git repository in /home/tdaapare/tree-ci/.git/
~/tree-ci $ git commit --allow-empty -m "Init repo"
[main (root-commit) dc6981ee6f7f] Init repo
~/tree-ci[main] $ git remote add origin git@gitlab.com:LPC24-demo/tree-ci
```

Set the desired name for your repo under your namespace



KernelCI Create a CI repository

```
~ $ mkdir tree-ci
~ $ cd $_
~/tree-ci $ git init
Initialized empty Git repository in /home/tdaapare/tree-ci/.git/
~/tree-ci $ git commit --allow-empty -m "Init repo"
[main (root-commit) dc6981ee6f7f] Init repo
~/tree-ci[main] $ git remote add origin git@gitlab.com:LPC24-demo/tree-ci
~/tree-ci[main] $ git push --set-upstream origin main
Enumerating objects: 2, done.
Counting objects: 100% (2/2), done.
Writing objects: 100% (2/2), 171 bytes | 171.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote:
remote: ✨ The private project LPC24-demo/tree-ci was successfully created.
remote:
```

And push to create it in GitLab



Write the *simplest CI YAML* possible

```
~/tree-ci[main] $ vim simplest-ci.yml
```

Now, to the CI configuration

Their syntax is all documented at <https://docs.gitlab.com/ee/ci/yaml>

GitLab Docs

- Tutorials >
- Subscribe >
- Install >
- Administer >
- Use GitLab >
 - Manage your organization >
 - Organize work with projects >
 - Plan and track work >
 - Learn Git >
 - Manage your code >
 - Use CI/CD to build your application >
 - Getting started >
 - CI/CD YAML syntax reference** >
 - Optimize your YAML files
 - Validate syntax
 - Pipeline editor
 - Artifacts reports
 - Include examples

CI/CD YAML syntax reference

Tier: Free, Premium, Ultimate
Offering: GitLab.com, Self-managed, GitLab Dedicated

This document lists the configuration options for the GitLab `.gitlab-ci.yml` file. This file is where you define the CI/CD jobs that make up your pipeline.

- If you are already familiar with [basic CI/CD concepts](#), try creating your own `.gitlab-ci.yml` file by following a tutorial that demonstrates a [simple](#) or [complex](#) pipeline.
- For a collection of examples, see [GitLab CI/CD examples](#).
- To view a large `.gitlab-ci.yml` file used in an enterprise, see the [.gitlab-ci.yml file for gitlab](#).

When you are editing your `.gitlab-ci.yml` file, you can validate it with the [CI Lint](#) tool.

If you are editing content on this page, follow the [instructions for documenting keywords](#).

Keywords

A GitLab CI/CD pipeline configuration includes:

- [Global keywords](#) that configure pipeline behavior:

| Keyword | Description |
|---------|-------------|
|---------|-------------|

On this page

Keywords

Global keywords

- default
- include
 - include:component
 - include:local
 - include:project
 - include:remote
 - include:template
 - include:inputs
 - include:rules
- stages
- workflow
 - workflow:auto_cancel:on_new_co
 - workflow:auto_cancel:on_job_fai
 - workflow:name
 - workflow:rules
 - workflow:rules:variables
 - workflow:rules:auto_cancel

Header keywords

- spec
 - spec:inputs
 - spec:inputs:default



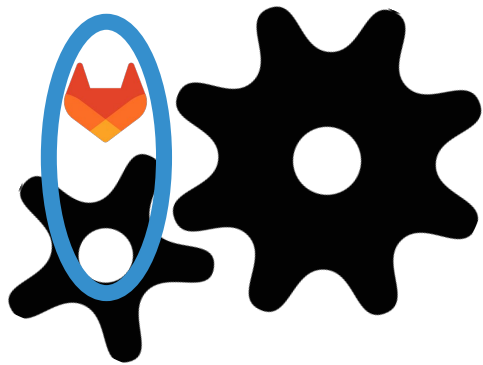
```
1 compile:
2   image: quay.io/cki/builder-rawhide:production
3   script:
4     - make tinyconfig
5     - make -j$(nproc)
6   
```



```
~/tree-ci[main !+] $ vim simplest-ci.yml
~/tree-ci[main !+] $ git add .
~/tree-ci[main +] $ git commit -m "Add simplest-ci.yml"
[main 82f44d3e59c9] Add simplest-ci.yml
1 file changed, 6 insertions(+)
create mode 100644 simplest-ci.yml
~/tree-ci[main] $ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 352 bytes | 352.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To gitlab.com:LPC24-demo/tree-ci
f637ed29ea3c..82f44d3e59c9 main -> main
~/tree-ci[main] $
```

Commit and push... but wait...

How do we connect it to a tree?



How do we connect it to a tree?

Option a: Clone it

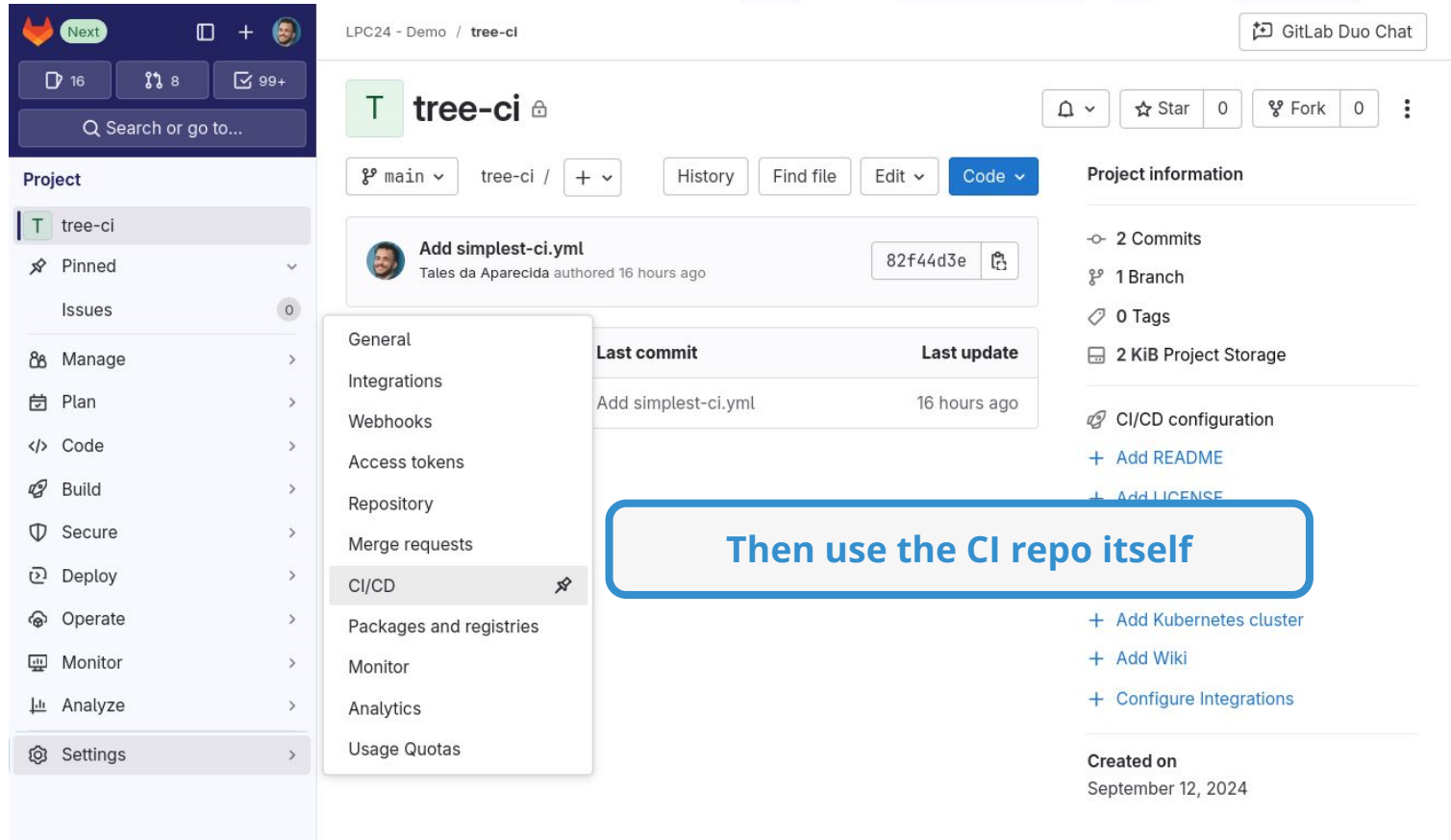
Option b: Mirror it



```
1 compile:
2   image: quay.io/cki/builder-rawhide:production
3   script:
4     - |
5       if [ "$(head -n1 README 2>/dev/null)" != "Linux kernel" ]; then
6         git clone --depth 1 \
7           https://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git
8         cd linux
9         f1
10      - make tinyconfig
11      - make -j$(nproc)
12
```

You can add a step to clone the tree

Hooking a tree! Option a: clone it



The screenshot shows the GitLab interface for a repository named 'tree-ci'. The left sidebar contains a navigation menu with 'Settings' at the bottom. A dropdown menu is open from 'Settings', with 'CI/CD' highlighted. A callout box with a blue border and rounded corners contains the text 'Then use the CI repo itself'. The main content area shows the repository details, including the commit history table and project information.

tree-ci

main tree-ci + History Find file Edit Code

Add simplest-ci.yml
Tales da Aparecida authored 16 hours ago
82f44d3e

| Last commit | Last update |
|---------------------|--------------|
| Add simplest-ci.yml | 16 hours ago |

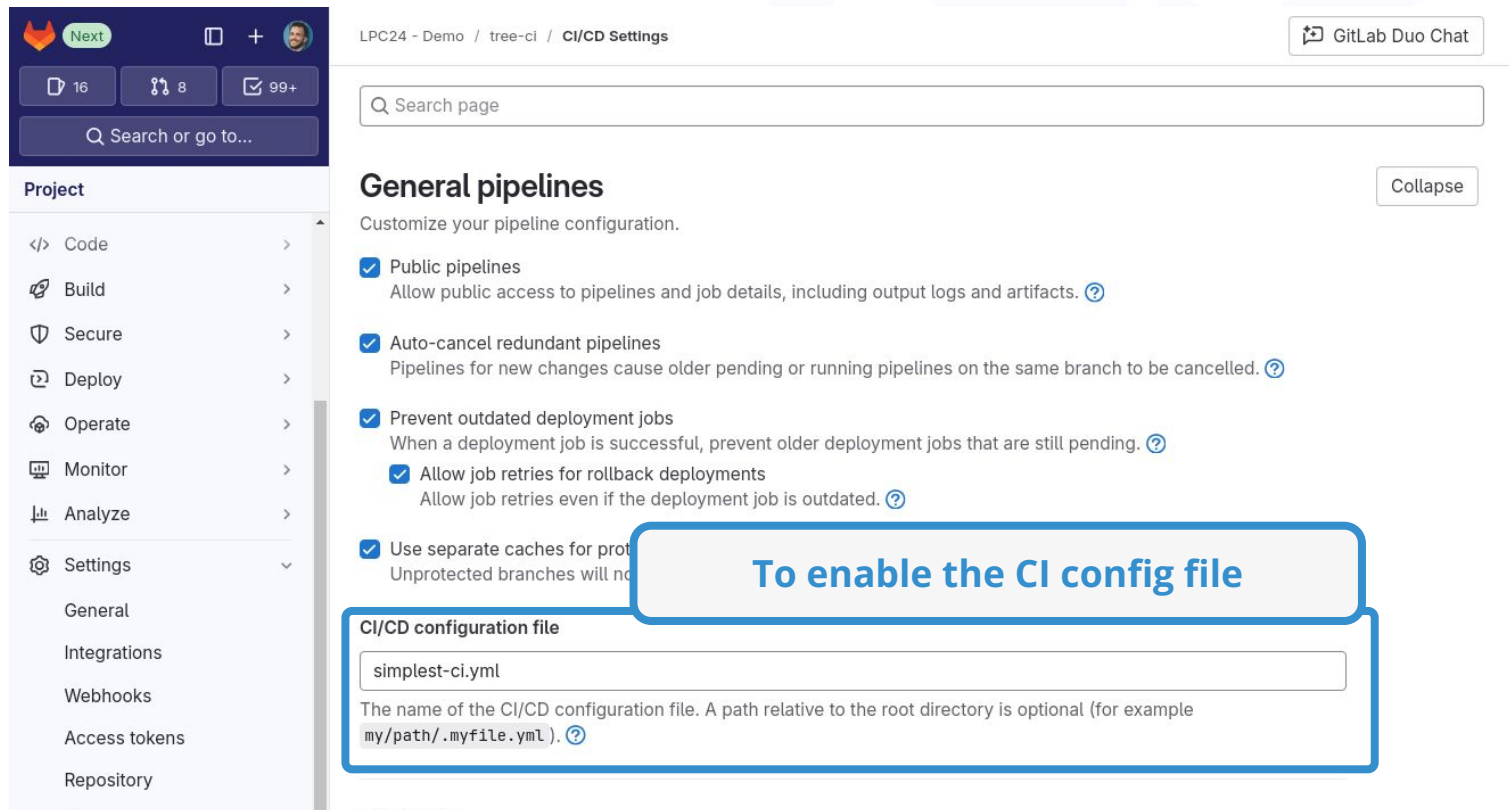
Project information

- 2 Commits
- 1 Branch
- 0 Tags
- 2 KIB Project Storage
- CI/CD configuration
 - + Add README
 - + Add LICENSE
 - + Add Kubernetes cluster
 - + Add Wiki
 - + Configure Integrations

Created on
September 12, 2024

Then use the CI repo itself

Hooking a tree! Option a: clone it



The screenshot shows the GitLab CI/CD Settings page for a project named 'tree-ci'. The left sidebar contains a navigation menu with options like Code, Build, Secure, Deploy, Operate, Monitor, Analyze, Settings, General, Integrations, Webhooks, Access tokens, and Repository. The main content area is titled 'General pipelines' and includes several checked options: 'Public pipelines', 'Auto-cancel redundant pipelines', 'Prevent outdated deployment jobs', 'Allow job retries for rollback deployments', and 'Use separate caches for protected branches'. A blue callout box highlights the 'CI/CD configuration file' section, which contains a text input field with the value 'simplest-ci.yml' and a description: 'The name of the CI/CD configuration file. A path relative to the root directory is optional (for example my/path/.myfile.yml)'. Another blue callout box is positioned over the 'Use separate caches for protected branches' option.

LPC24 - Demo / tree-ci / CI/CD Settings

Search page

General pipelines

Customize your pipeline configuration.

- Public pipelines
Allow public access to pipelines and job details, including output logs and artifacts. ?
- Auto-cancel redundant pipelines
Pipelines for new changes cause older pending or running pipelines on the same branch to be cancelled. ?
- Prevent outdated deployment jobs
When a deployment job is successful, prevent older deployment jobs that are still pending. ?
 - Allow job retries for rollback deployments
Allow job retries even if the deployment job is outdated. ?
- Use separate caches for protected branches
Unprotected branches will not have separate caches.

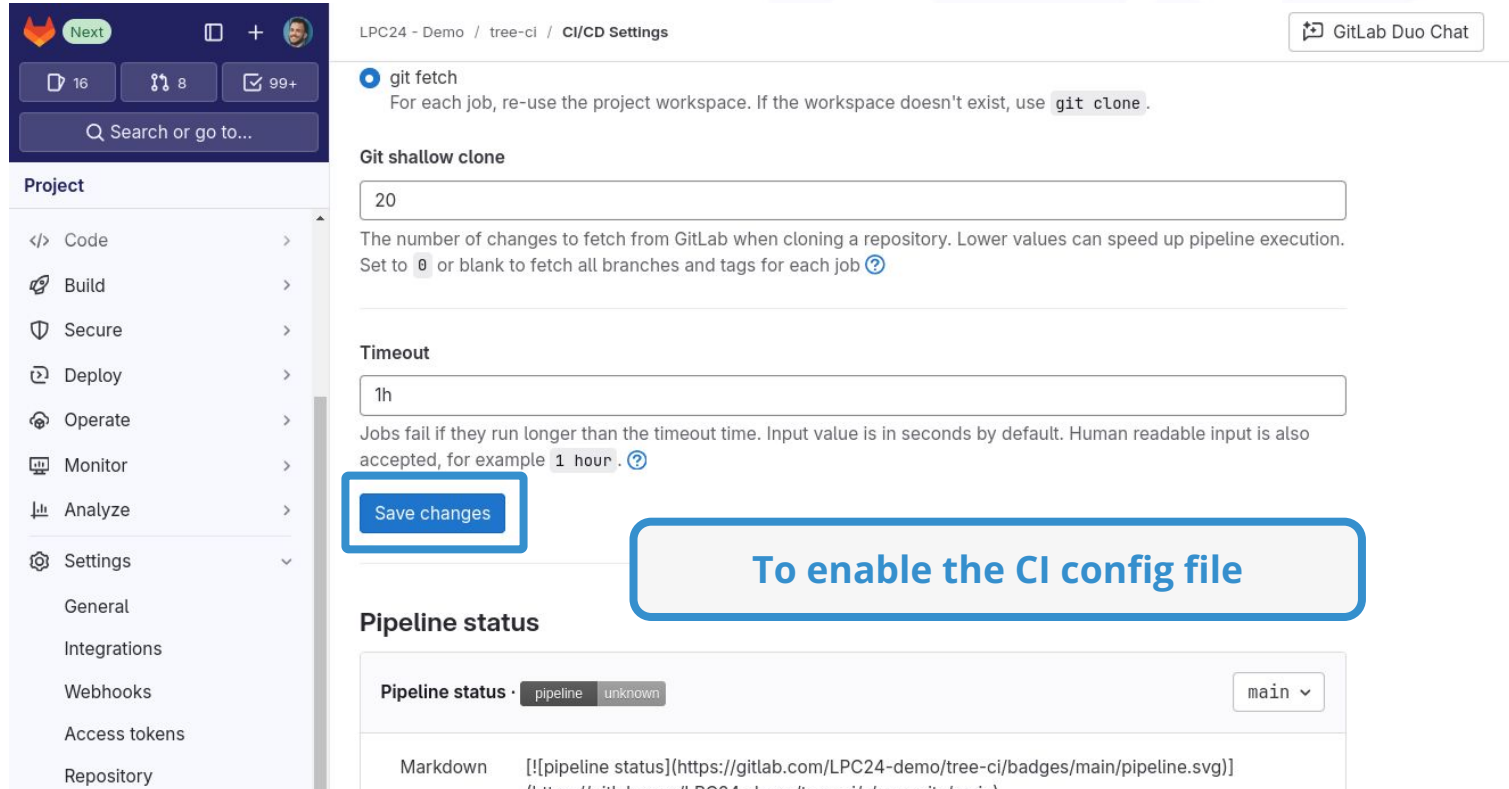
To enable the CI config file

CI/CD configuration file

simplest-ci.yml

The name of the CI/CD configuration file. A path relative to the root directory is optional (for example my/path/.myfile.yml). ?

Hooking a tree! Option a: clone it



LPC24 - Demo / tree-ci / CI/CD Settings GitLab Duo Chat

git fetch
For each job, re-use the project workspace. If the workspace doesn't exist, use `git clone`.

Git shallow clone

The number of changes to fetch from GitLab when cloning a repository. Lower values can speed up pipeline execution. Set to `0` or blank to fetch all branches and tags for each job [?](#)

Timeout

Jobs fail if they run longer than the timeout time. Input value is in seconds by default. Human readable input is also accepted, for example `1 hour`. [?](#)

Save changes



To enable the CI config file




Pipeline status

Pipeline status · `pipeline` `unknown` main ▾

Markdown `[[pipeline status]](https://gitlab.com/LPC24-demo/tree-ci/badges/main/pipeline.svg)`

And in the next push to the CI repo...
(or by manually triggering it)

Next  

 16  8  99+

Search or go to...

Project

- Issues 0
- Manage >
- Plan >
- Code >
- Build >
- Pipelines**
- Jobs
- Pipeline editor
- Pipeline schedules
- Artifacts
- Secure >
- Deploy >
- Help

LPC24 - Demo / tree-ci / Pipelines

 GitLab Duo ChatAll 6 Finished Branches Tags






Clear runner caches

Run pipeline

Filter pipelines

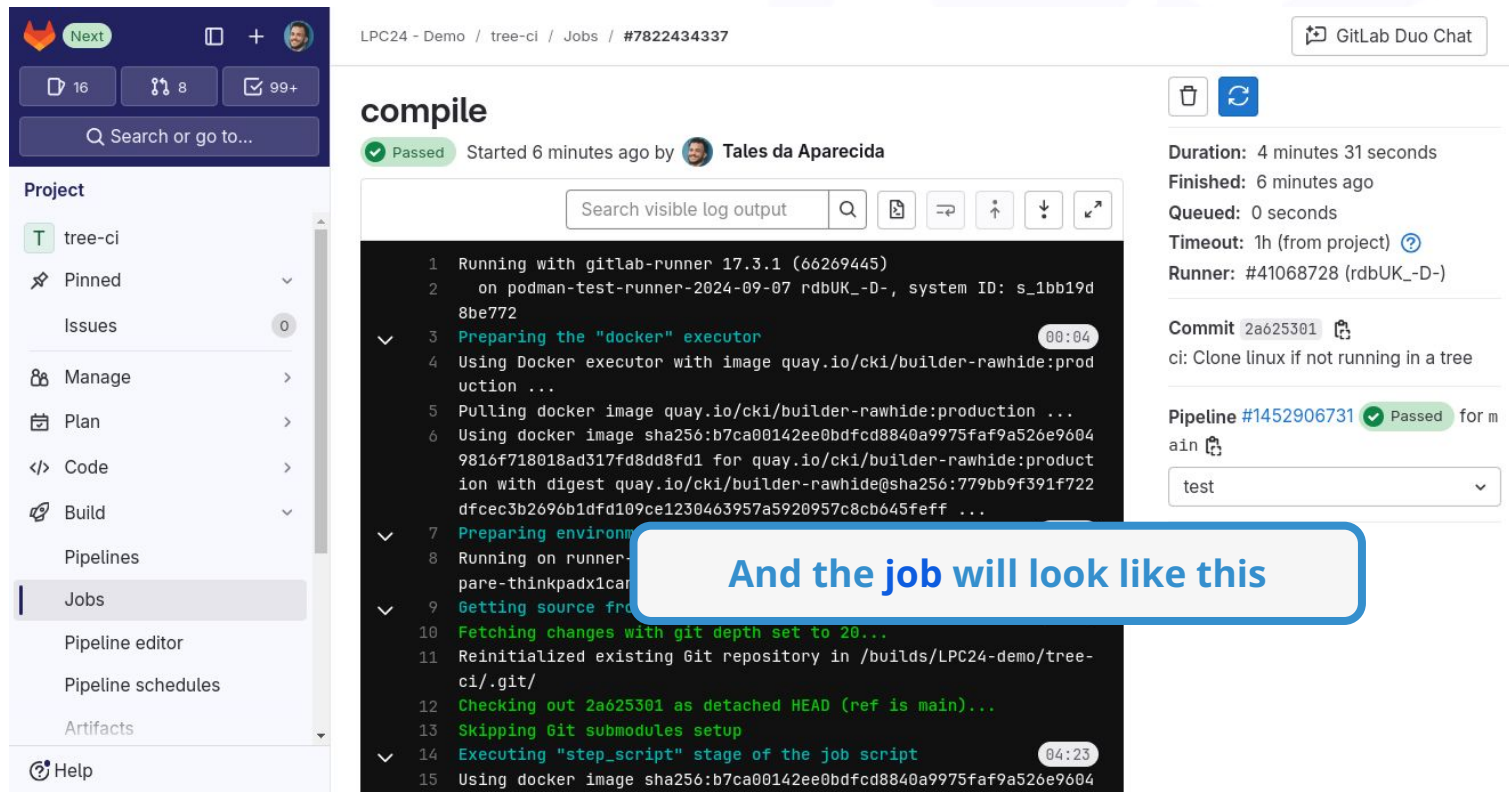


Show Pipeline IID ▾

| Status | Pipeline | Created by | Stages | |
|---------------------|--|---|---------------------|---|
| Passed | ci: Clone linux if not running in a... #1  main  2a625301  |  | latest |  ▾ |

The pipeline will look like this

Hooking a tree! Option a: clone it



The screenshot displays the GitLab CI interface for a project named 'tree-ci'. The top navigation bar shows the project name, a search bar, and a 'GitLab Duo Chat' button. The main content area is titled 'compile' and shows a job that has passed, started 6 minutes ago by 'Tales da Aparecida'. The job log is visible, showing the following steps:

```
1 Running with gitlab-runner 17.3.1 (66269445)
2 on podman-test-runner-2024-09-07 rdbUK_D-, system ID: s_1bb19d8be772
3 Preparing the "docker" executor 00:04
4 Using Docker executor with image quay.io/cki/builder-rawhide:production ...
5 Pulling docker image quay.io/cki/builder-rawhide:production ...
6 Using docker image sha256:b7ca00142ee0bdfcd8840a9975faf9a526e96049816f718018ad317fd8dd8fd1 for quay.io/cki/builder-rawhide:production with digest quay.io/cki/builder-rawhide@sha256:779bb9f391f722dfcec3b2696b1dfd109ce1230463957a5920957c8cb645feff ...
7 Preparing environment
8 Running on runner-prepare-thinkpadx1car
9 Getting source from
10 Fetching changes with git depth set to 20...
11 Reinitialized existing Git repository in /builds/LPC24-demo/tree-ci/.git/
12 Checking out 2a625301 as detached HEAD (ref is main)...
13 Skipping Git submodules setup
14 Executing "step_script" stage of the job script 04:23
15 Using docker image sha256:b7ca00142ee0bdfcd8840a9975faf9a526e9604
```

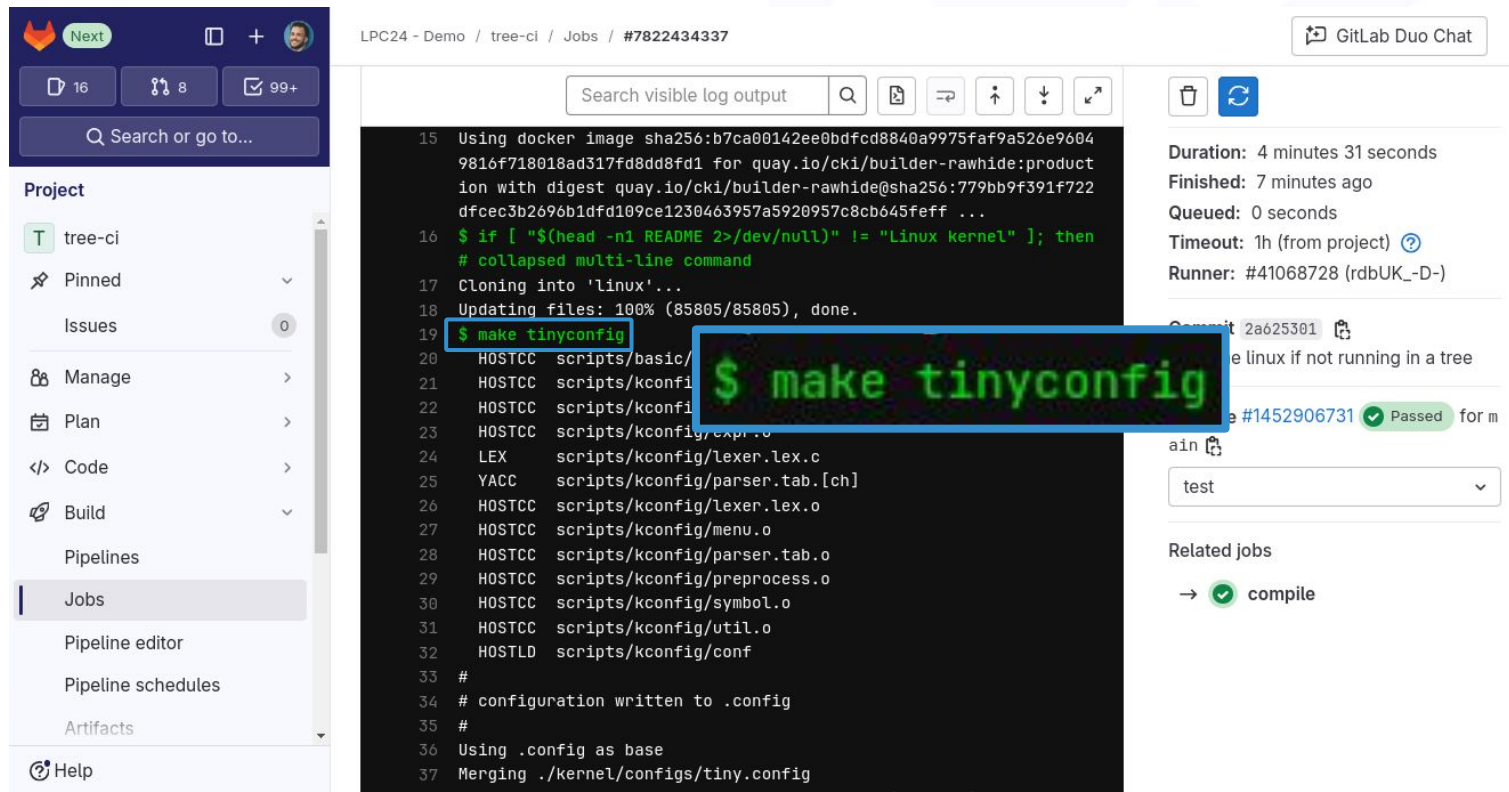
A callout box with a blue border and white background contains the text: "And the job will look like this".

On the right side of the job view, there are several statistics and details:

- Duration: 4 minutes 31 seconds
- Finished: 6 minutes ago
- Queued: 0 seconds
- Timeout: 1h (from project)
- Runner: #41068728 (rdbUK_D-)
- Commit: 2a625301
- ci: Clone linux if not running in a tree
- Pipeline #1452906731 (Passed) for main
- test (selected)

The left sidebar shows the project navigation menu with 'Jobs' selected.

Hooking a tree! Option a: clone it



The screenshot displays the GitLab CI/CD interface for a job named "tree-ci". The left sidebar shows the project navigation menu with "Jobs" selected. The main area shows the job log output, which includes the command `$ make tinyconfig` highlighted in a blue box. A larger blue box with white text also displays `$ make tinyconfig`. The job details on the right indicate a duration of 4 minutes 31 seconds, finished 7 minutes ago, and a runner ID of #41068728. The job status is "Passed".

Search visible log output

```
15 Using docker image sha256:b7ca00142ee0bdfcd8840a9975faf9a526e9604
9816f718018ad317fd8dd8fd1 for quay.io/cki/builder-rawhide:product
ion with digest quay.io/cki/builder-rawhide@sha256:779bb9f391f722
dfcec3b2696b1dfd109ce1230463957a5920957c8cb645feff ...
16 $ if [ "$(head -n1 README 2>/dev/null)" != "Linux kernel" ]; then
# collapsed multi-line command
17 Cloning into 'linux'...
18 Updating files: 100% (85805/85805), done.
19 $ make tinyconfig
20 HOSTCC scripts/basic/
21 HOSTCC scripts/kconfi
22 HOSTCC scripts/kconfi
23 HOSTCC scripts/kconfig/exp
24 LEX scripts/kconfig/lexer.lex.c
25 YACC scripts/kconfig/parser.tab.[ch]
26 HOSTCC scripts/kconfig/lexer.lex.o
27 HOSTCC scripts/kconfig/menu.o
28 HOSTCC scripts/kconfig/parser.tab.o
29 HOSTCC scripts/kconfig/preprocess.o
30 HOSTCC scripts/kconfig/symbol.o
31 HOSTCC scripts/kconfig/util.o
32 HOSTLD scripts/kconfig/conf
33 #
34 # configuration written to .config
35 #
36 Using .config as base
37 Merging ./kernel/configs/tiny.config
```

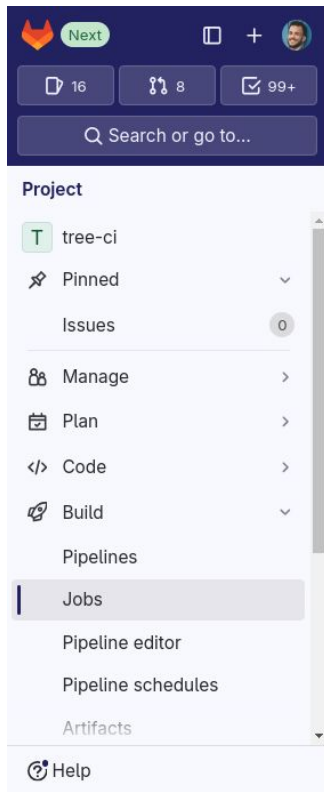
Duration: 4 minutes 31 seconds
Finished: 7 minutes ago
Queued: 0 seconds
Timeout: 1h (from project) ⓘ
Runner: #41068728 (rdbUK_-D-)

Commit 2a625301 ⓘ
e linux if not running in a tree
e #1452906731 ✓ Passed for m

test

Related jobs
→ ✓ compile

Hooking a tree! Option a: clone it



Next

16 8 99+

Search or go to...

Project

- tree-ci
- Pinned
- Issues 0
- Manage
- Plan
- Code
- Build
- Pipelines
- Jobs
- Pipeline editor
- Pipeline schedules
- Artifacts
- Help

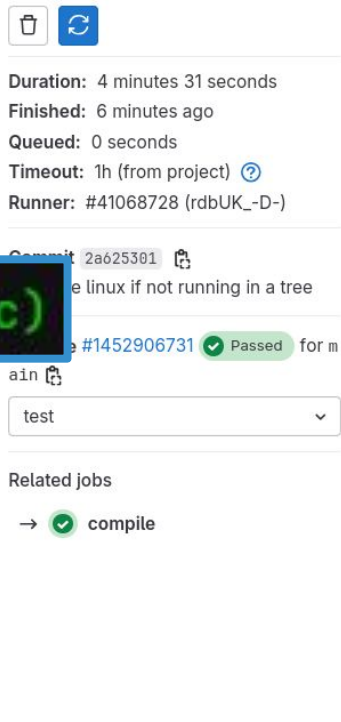
LPC24 - Demo / tree-ci / Jobs / #7822434337

GitLab Duo Chat

```
Search visible log output
```

```
67 # merged configuration written to .config (needs make)
68 #
69 #
70 # configuration written to .config
71 #
72 $ make -j$(nproc)
73 SYNC include/config/auto.conf
74 WRAP arch/x86/include/generated/uapi/asm/bpf_perf_event.h
75 WRAP arch/x86/include/generated/uapi/asm/param.h
76 WRAP arch/x86/include/generated/uapi/asm/poll.h
77 WRAP arch/x86/include/generated/uapi/asm/socket.h
78 SYSHDR arch/x86/include/generated/uapi/asm/sockios.h
79 WRAP arch/x86/include/generated/uapi/asm/sockios.h
80 SYSHDR arch/x86/include/generated/uapi/asm/unistd_64.h
81 UPD include/generated/uapi/linux/version.h
82 WRAP arch/x86/include/generated/uapi/asm/ipcbuf.h
83 WRAP arch/x86/include/generated/uapi/asm/param.h
84 WRAP arch/x86/include/generated/uapi/asm/poll.h
85 SYSHDR arch/x86/include/generated/uapi/asm/unistd_x32.h
86 SYSTBL arch/x86/include/generated/asm/syscalls_32.h
87 WRAP arch/x86/include/generated/uapi/asm/resource.h
88 WRAP arch/x86/include/generated/uapi/asm/socket.h
89 WRAP arch/x86/include/generated/uapi/asm/sockios.h
90 HOSTCC arch/x86/tools/relocs_32.o
91 UPD include/generated/compile.h
92 WRAP arch/x86/include/generated/uapi/asm/termbits.h
93 UPD include/config/kernel.release
```

\$ make -j\$(nproc)



Duration: 4 minutes 31 seconds

Finished: 6 minutes ago

Queued: 0 seconds

Timeout: 1h (from project)

Runner: #41068728 (rdbUK_-D-)

Commit 2a625301

... linux if not running in a tree

#1452906731 Passed for m

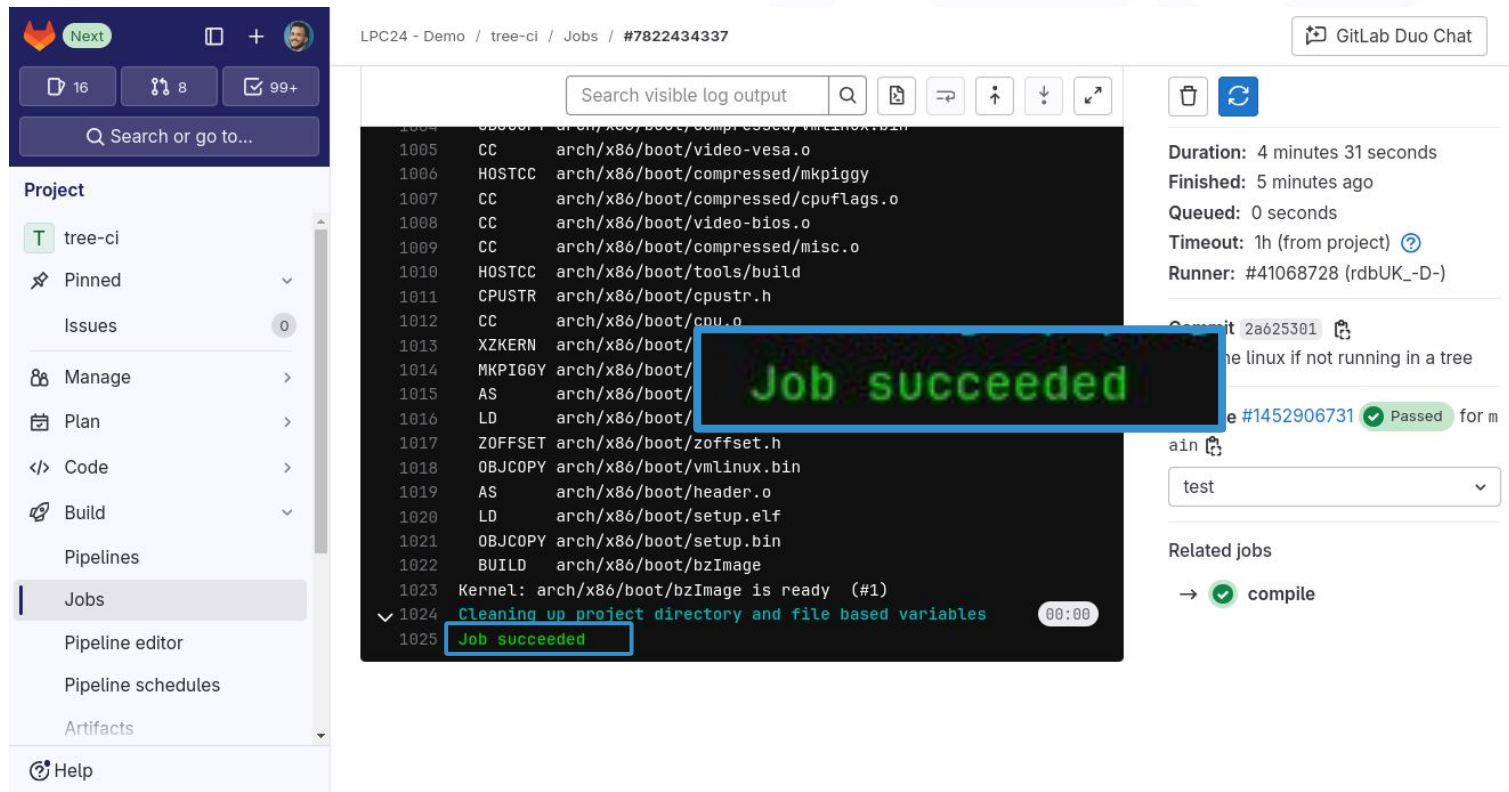
ain

test

Related jobs

→ compile

Hooking a tree! Option a: clone it



The screenshot displays the GitLab CI/CD interface for a project named 'tree-ci'. The left sidebar shows the project navigation menu with 'Jobs' selected. The main area shows the job details for 'tree-ci' with a search bar and a list of log output lines. A large green box highlights the text 'Job succeeded' in the log output. The right sidebar shows job statistics: Duration: 4 minutes 31 seconds, Finished: 5 minutes ago, Queued: 0 seconds, Timeout: 1h (from project), and Runner: #41068728 (rdbUK_-D-). Below this, a commit hash '2a625301' is shown with a 'Passed' status for the 'test' job. The 'Related jobs' section shows a 'compile' job with a green checkmark.

Next

16 8 99+

Search or go to...

Project

- tree-ci
- Pinned
- Issues 0
- Manage
- Plan
- Code
- Build
- Pipelines
- Jobs**
- Pipeline editor
- Pipeline schedules
- Artifacts
- Help

LPC24 - Demo / tree-ci / Jobs / #7822434337

Search visible log output

```
1004 ...
1005 CC arch/x86/boot/video-vesa.o
1006 HOSTCC arch/x86/boot/compressed/mkpiggy
1007 CC arch/x86/boot/compressed/cpuflags.o
1008 CC arch/x86/boot/video-bios.o
1009 CC arch/x86/boot/compressed/misc.o
1010 HOSTCC arch/x86/boot/tools/build
1011 CPUSTR arch/x86/boot/cpustr.h
1012 CC arch/x86/boot/cpu.o
1013 XZKERN arch/x86/boot/
1014 MKPIG6Y arch/x86/boot/
1015 AS arch/x86/boot/
1016 LD arch/x86/boot/
1017 ZOFFSET arch/x86/boot/zoffset.h
1018 OBJCOPY arch/x86/boot/vmlinux.bin
1019 AS arch/x86/boot/header.o
1020 LD arch/x86/boot/setup.elf
1021 OBJCOPY arch/x86/boot/setup.bin
1022 BUILD arch/x86/boot/bzImage
1023 Kernel: arch/x86/boot/bzImage is ready (#1)
1024 Cleaning up project directory and file based variables 00:00
1025 Job succeeded
```

GitLab Duo Chat

Duration: 4 minutes 31 seconds
Finished: 5 minutes ago
Queued: 0 seconds
Timeout: 1h (from project) ?
Runner: #41068728 (rdbUK_-D-)

Commit 2a625301

the linux if not running in a tree

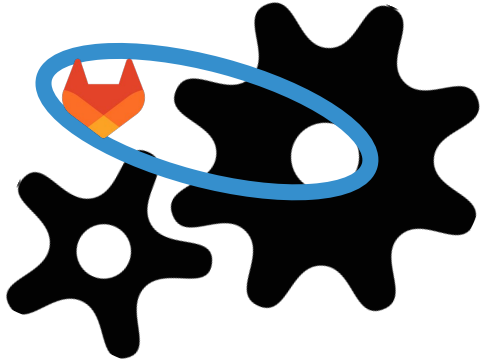
#1452906731 Passed for m

ain

test

Related jobs

→ compile

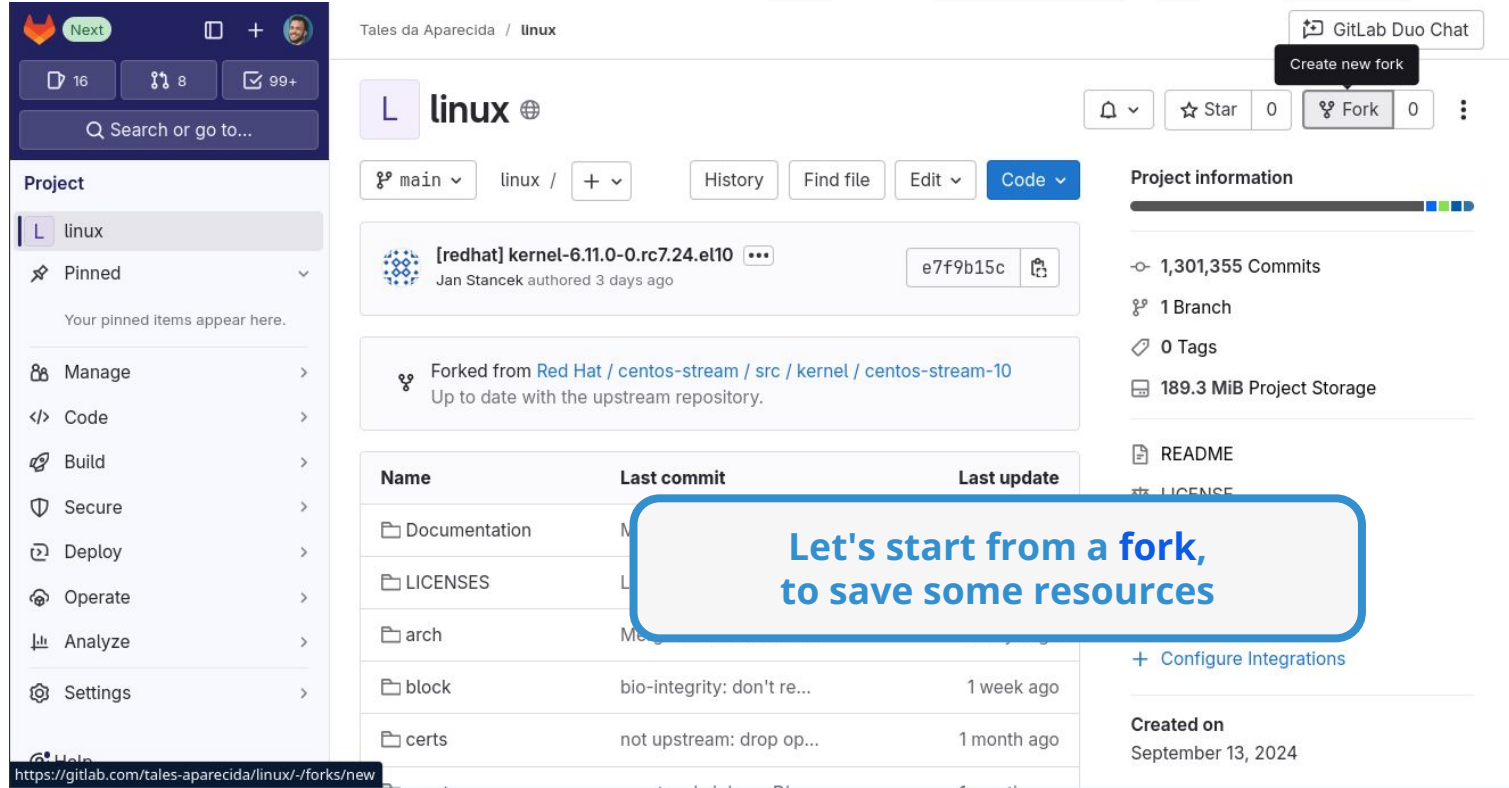


How do we connect it to a tree?

Option a: Clone it

Option b: Mirror it

Hooking a tree! Option b: mirror it

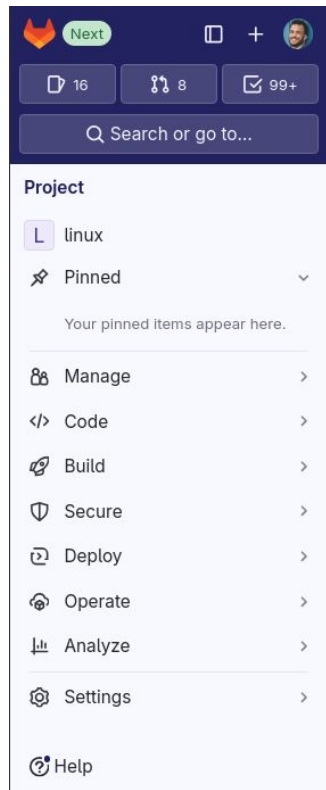


The screenshot shows the GitLab interface for the 'linux' repository. A callout box with a blue border and rounded corners is overlaid on the repository content, containing the text: "Let's start from a fork, to save some resources".

Repository details:

- Repository: linux
- Current branch: main
- Latest commit: [redhat] kernel-6.11.0-0.rc7.24.el10 by Jan Stancek, 3 days ago (commit hash: e7f9b15c)
- Origin: Forked from Red Hat / centos-stream / src / kernel / centos-stream-10
- Project information: 1,301,355 Commits, 1 Branch, 0 Tags, 189.3 MiB Project Storage
- Created on: September 13, 2024

| Name | Last commit | Last update |
|---------------|----------------------------|-------------|
| Documentation | M... | |
| LICENSES | L... | |
| arch | M... | |
| block | bio-integrity: don't re... | 1 week ago |
| certs | not upstream: drop op... | 1 month ago |



Next

16 8 99+

Search or go to...

Project

- linux
- Pinned

Your pinned items appear here.

- Manage
- Code
- Build
- Secure
- Deploy
- Operate
- Analyze
- Settings
- Help

Tales da Aparecida / linux / Fork project

GitLab Duo Chat



Fork project

A fork is a copy of a project. Forking a repository allows you to make changes without affecting the original project.

Project name

Must start with a lowercase or uppercase letter, digit, emoji, or underscore. Can also contain dots, pluses, dashes, or spaces.

Project URL

 LPC24-demo

Project slug

Want to organize several dependent projects under the same namespace? [Create a group](#)

Project description (optional)

Branches to include

- All branches
- Only the default branch `main`

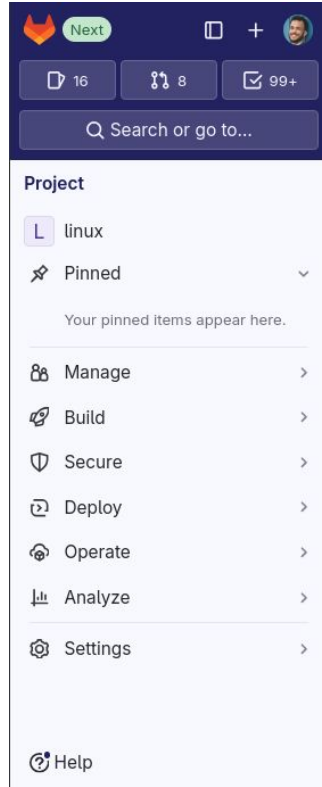
Visibility level

- Private
- Public
- The project can be accessed without any authentication.

Fork project

Cancel

Hooking a tree! Option b: mirror it



Next

16 8 99+

Search or go to...

Project

- L linux
- Pinned
- Your pinned items appear here.
- Manage
- Build
- Secure
- Deploy
- Operate
- Analyze
- Settings
- Help

LPC24 - Demo / linux / **Forking in progress**

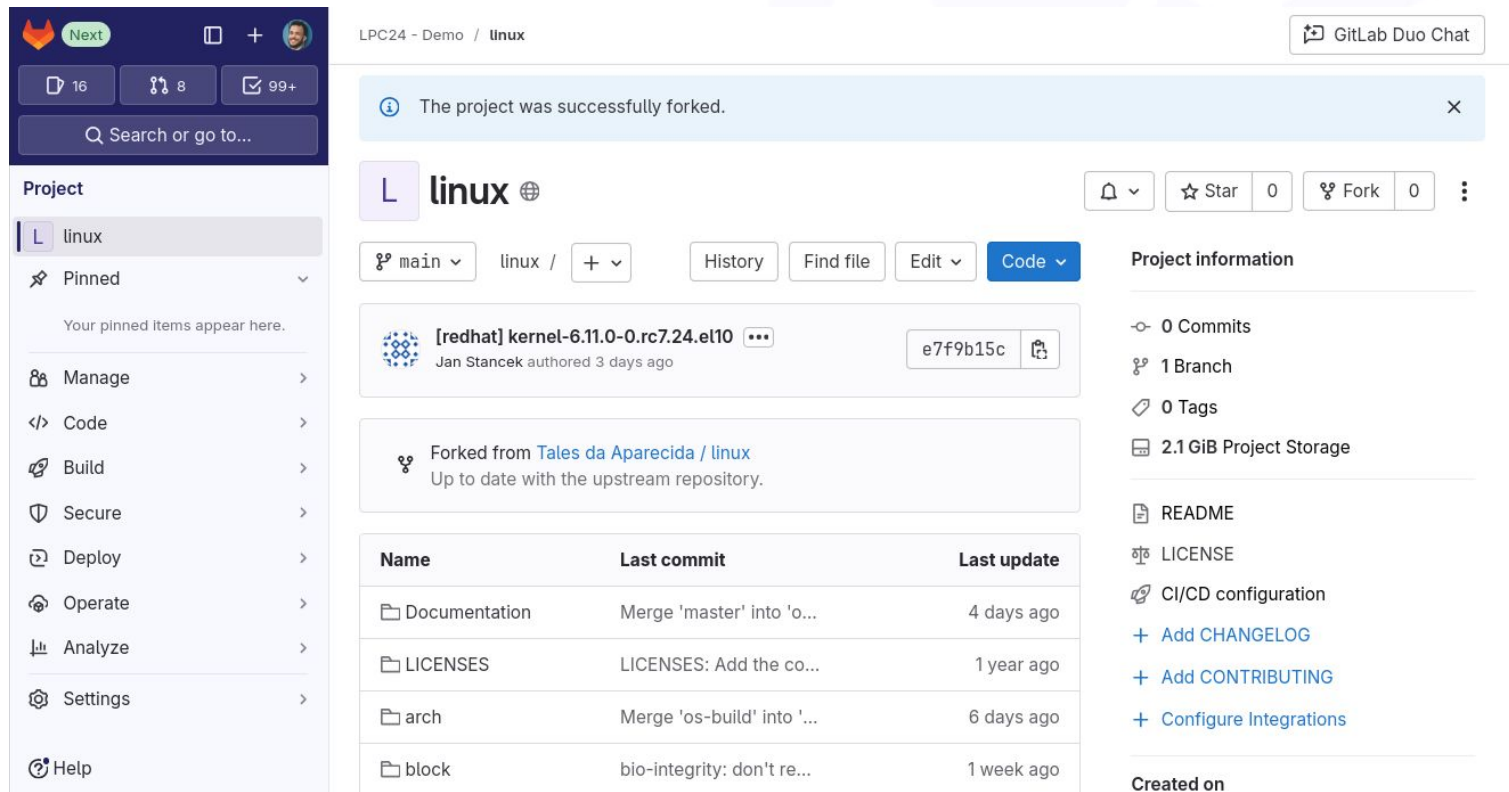
GitLab Duo Chat

⚠ Import in progress

This project is being imported. Do not make any changes to the project until the import is complete.

○ Forking in progress

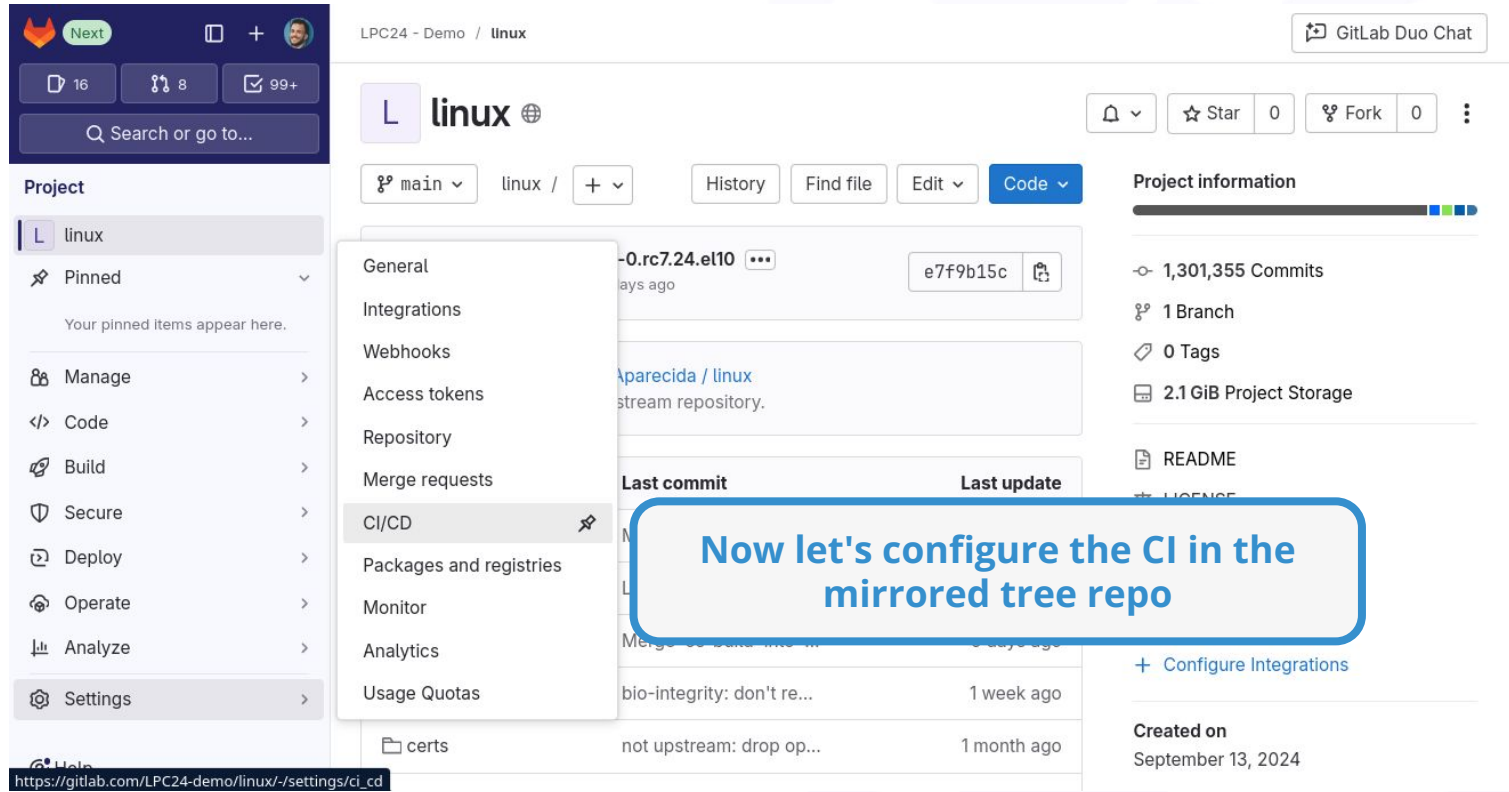
Please wait while we import the repository for you. Refresh at will.



The screenshot shows the GitLab interface for a repository named 'LPC24 - Demo / linux'. A notification at the top states 'The project was successfully forked.' The repository is currently empty, with 0 commits, 1 branch, and 0 tags. A commit history table is visible below the notification.

| Name | Last commit | Last update |
|---------------|-----------------------------|-------------|
| Documentation | Merge 'master' into 'o... | 4 days ago |
| LICENSES | LICENSES: Add the co... | 1 year ago |
| arch | Merge 'os-build' into 'l... | 6 days ago |
| block | bio-integrity: don't re... | 1 week ago |

Hooking a tree! Option b: mirror it



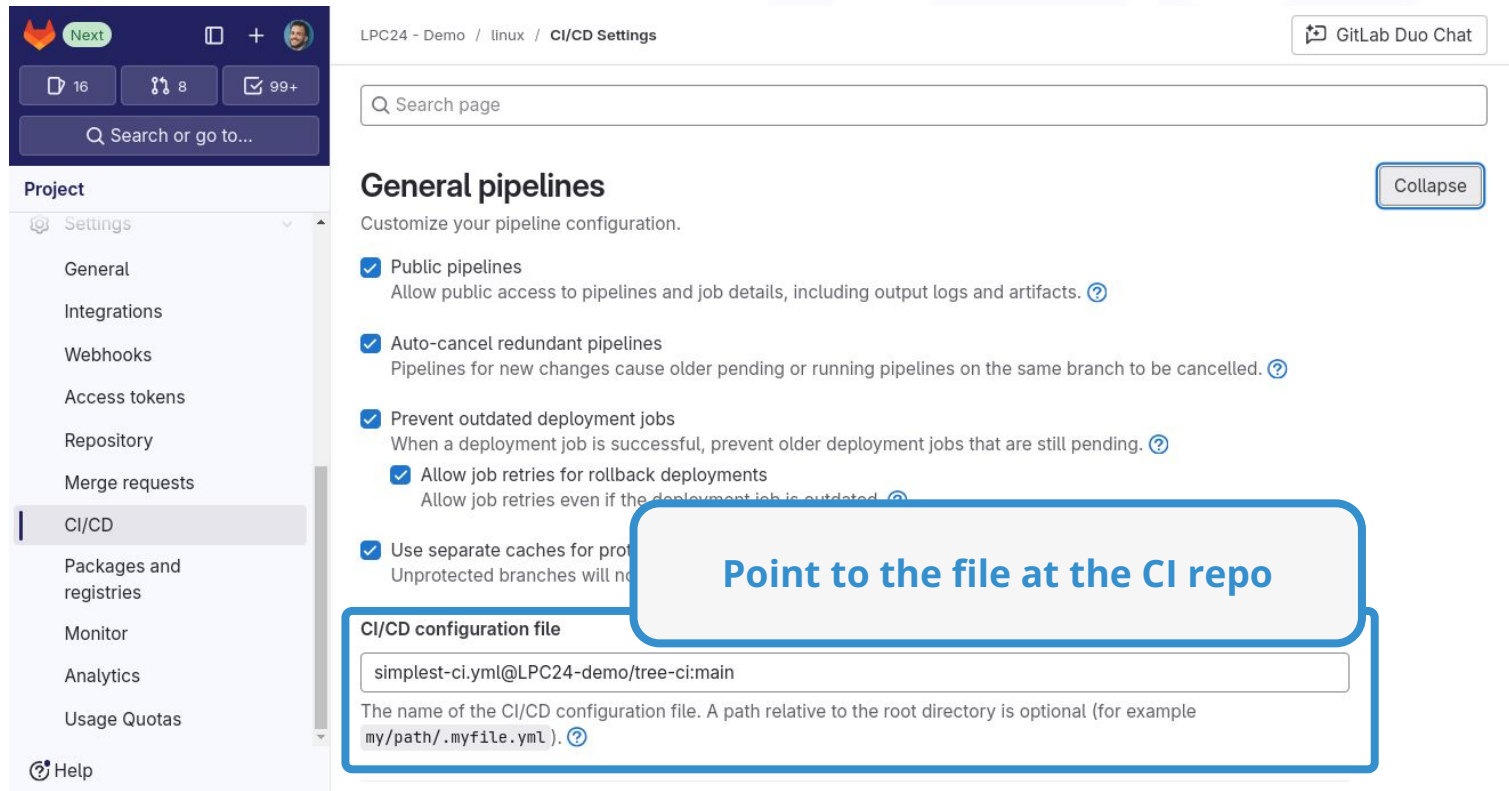
The screenshot shows the GitLab web interface for the 'linux' repository. The left sidebar contains navigation options like 'Project', 'Pinned', 'Manage', 'Code', 'Build', 'Secure', 'Deploy', 'Operate', 'Analyze', and 'Settings'. The 'Settings' menu is open, and the 'CI/CD' option is highlighted. A callout box with a blue border and text says: "Now let's configure the CI in the mirrored tree repo". The main content area shows repository details, including commit history and project information.

Project information

- 1,301,355 Commits
- 1 Branch
- 0 Tags
- 2.1 GiB Project Storage
- README
- LICENSE

Created on September 13, 2024

[+ Configure Integrations](#)



The screenshot shows the GitLab CI/CD settings page for a project named 'LPC24 - Demo'. The left sidebar contains a navigation menu with 'CI/CD' selected. The main content area is titled 'General pipelines' and includes a search bar, a 'Collapse' button, and a list of pipeline configuration options. A blue callout box highlights the 'CI/CD configuration file' section, which contains a text input field with the value 'simplest-ci.yml@LPC24-demo/tree-ci:main' and a descriptive paragraph. Another blue callout box points to the input field with the text 'Point to the file at the CI repo'.

LPC24 - Demo / linux / CI/CD Settings

GitLab Duo Chat

Search page

General pipelines

Collapse

Customize your pipeline configuration.

- Public pipelines
Allow public access to pipelines and job details, including output logs and artifacts. ?
- Auto-cancel redundant pipelines
Pipelines for new changes cause older pending or running pipelines on the same branch to be cancelled. ?
- Prevent outdated deployment jobs
When a deployment job is successful, prevent older deployment jobs that are still pending. ?
- Allow job retries for rollback deployments
Allow job retries even if the deployment job is outdated. ?
- Use separate caches for protected branches
Unprotected branches will not have separate caches.

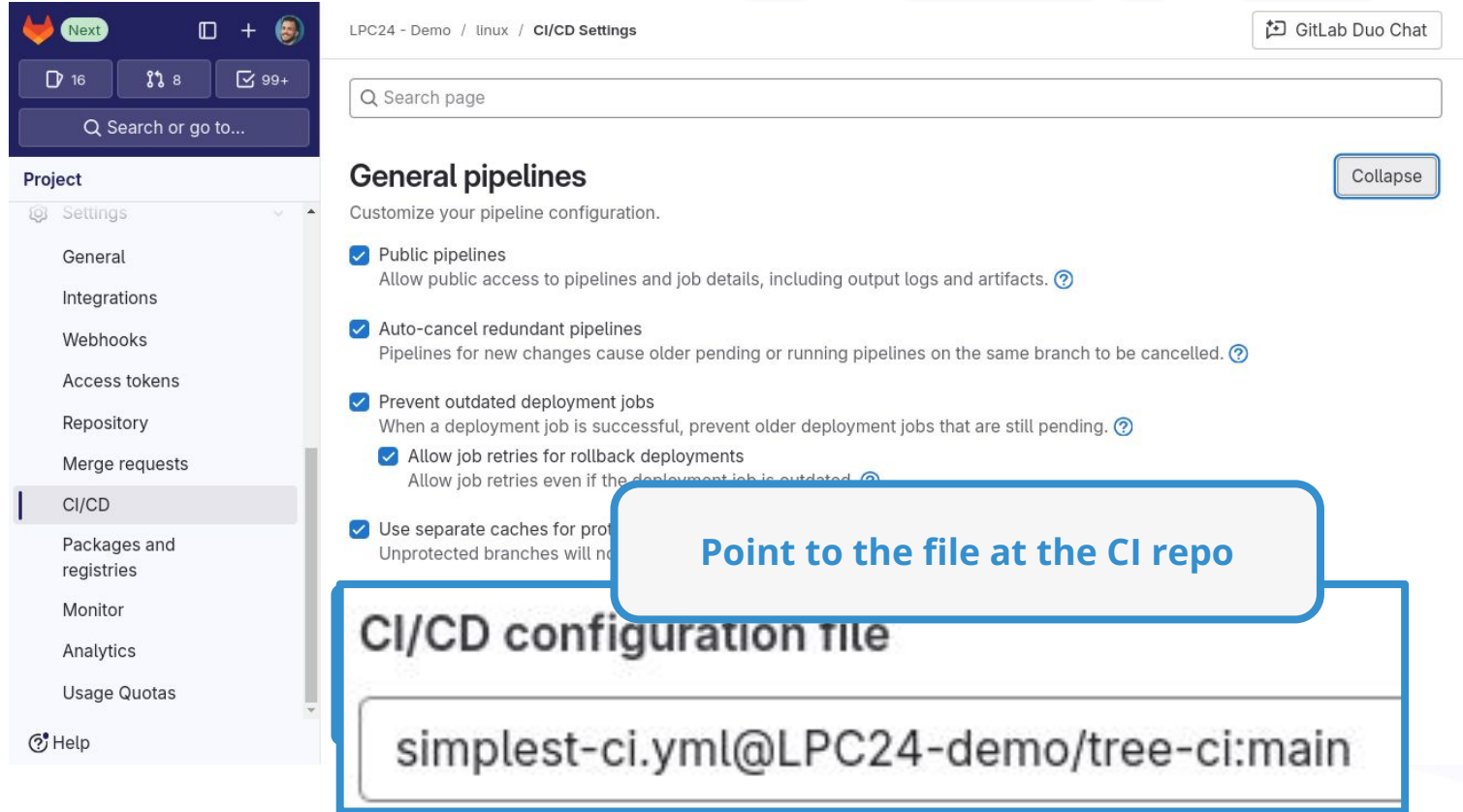
CI/CD configuration file

simplest-ci.yml@LPC24-demo/tree-ci:main

The name of the CI/CD configuration file. A path relative to the root directory is optional (for example `my/path/.myfile.yml`). ?

Point to the file at the CI repo

Hooking a tree! Option b: mirror it



LPC24 - Demo / linux / CI/CD Settings

Search page

General pipelines

Customize your pipeline configuration.

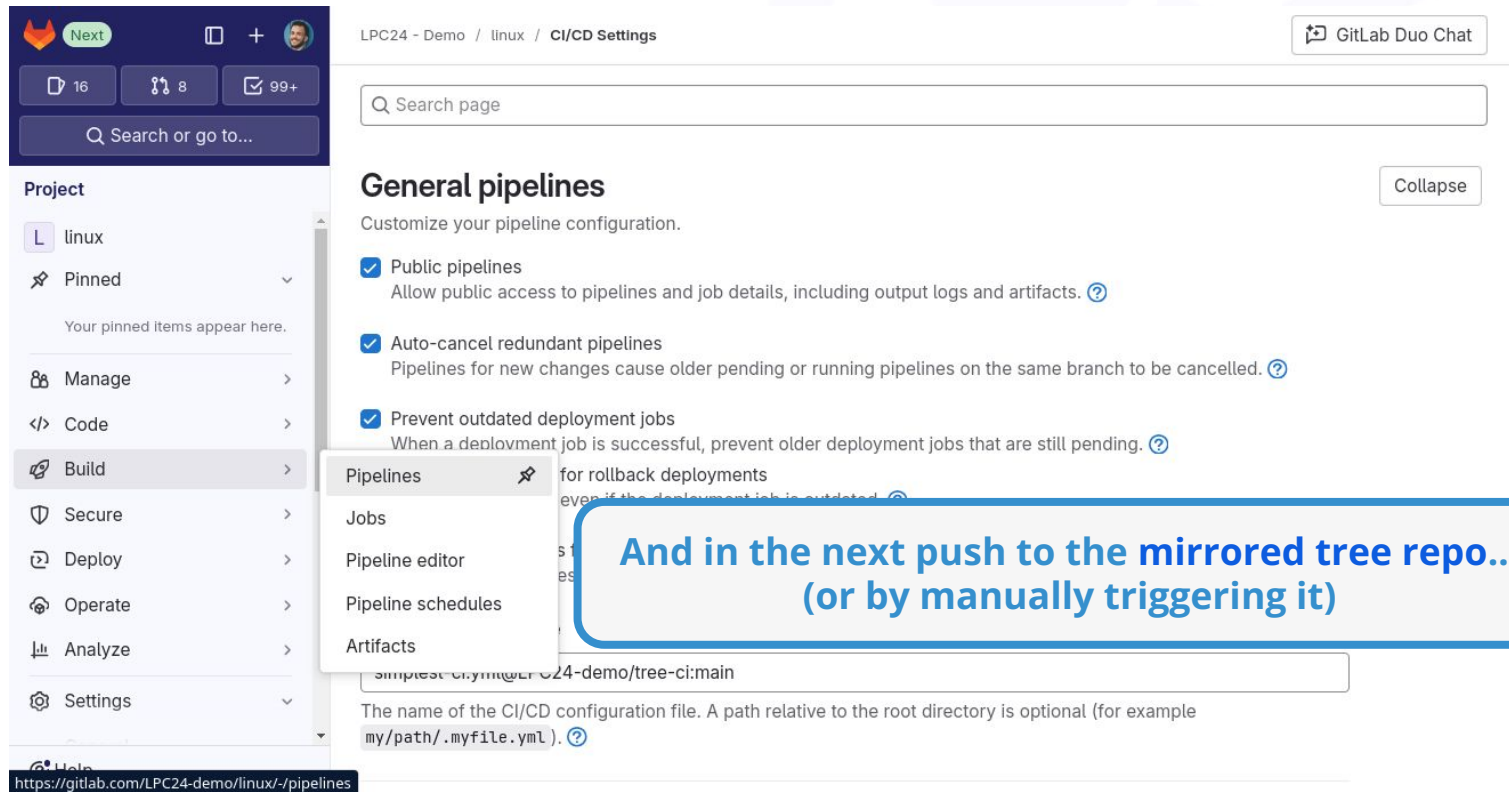
- Public pipelines
Allow public access to pipelines and job details, including output logs and artifacts. ?
- Auto-cancel redundant pipelines
Pipelines for new changes cause older pending or running pipelines on the same branch to be cancelled. ?
- Prevent outdated deployment jobs
When a deployment job is successful, prevent older deployment jobs that are still pending. ?
- Allow job retries for rollback deployments
Allow job retries even if the deployment job is outdated. ?
- Use separate caches for protected branches
Unprotected branches will not use caches.

CI/CD configuration file

simplest-ci.yml@LPC24-demo/tree-ci:main

Point to the file at the CI repo

Hooking a tree! Option b: mirror it



LPC24 - Demo / linux / CI/CD Settings

Search page

GitLab Duo Chat

General pipelines

Customize your pipeline configuration.

- Public pipelines
Allow public access to pipelines and job details, including output logs and artifacts. ?
- Auto-cancel redundant pipelines
Pipelines for new changes cause older pending or running pipelines on the same branch to be cancelled. ?
- Prevent outdated deployment jobs
When a deployment job is successful, prevent older deployment jobs that are still pending. ?

Pipelines

Jobs

Pipeline editor

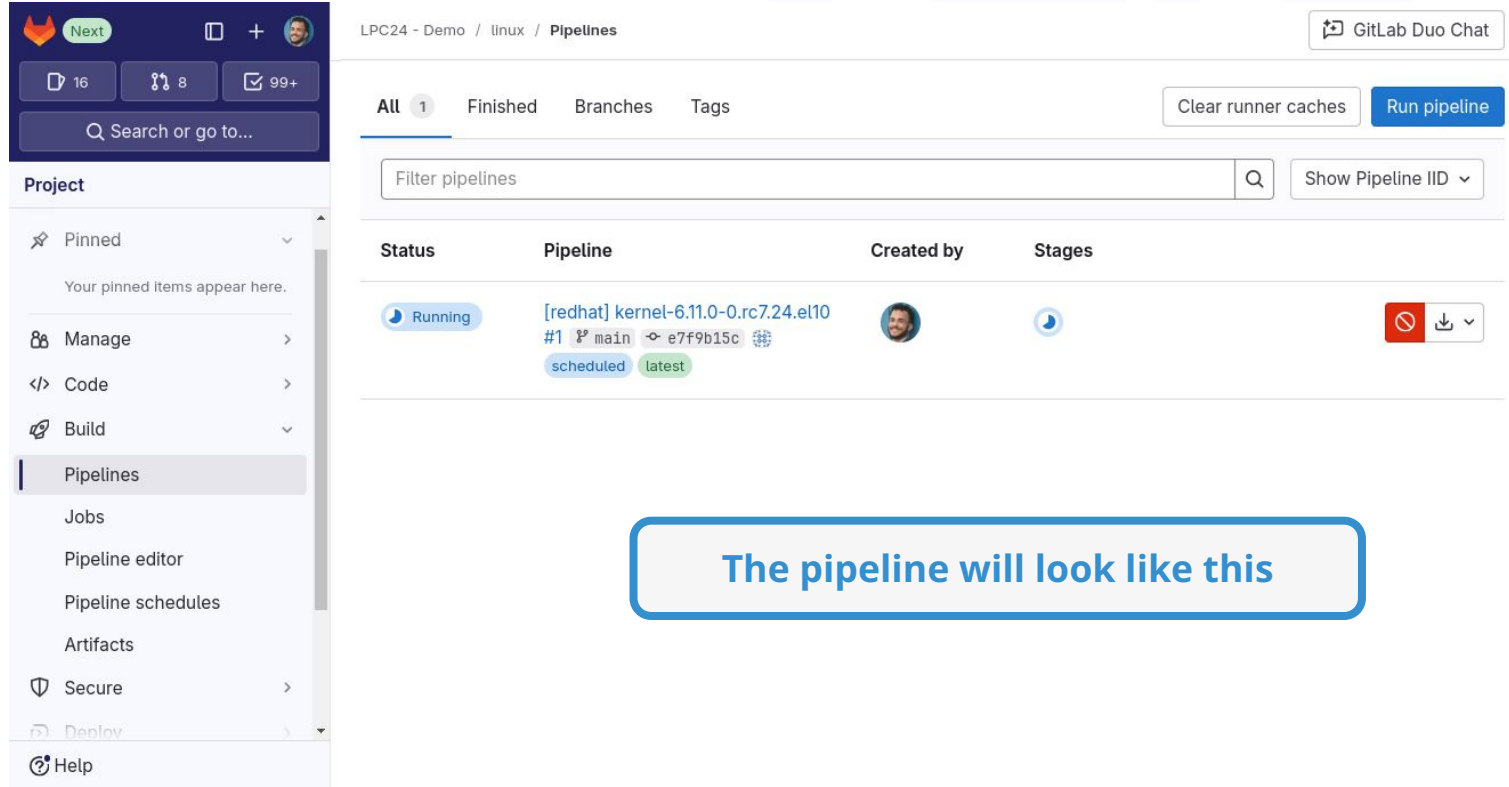
Pipeline schedules

Artifacts



And in the next push to the mirrored tree repo...
(or by manually triggering it)

https://gitlab.com/LPC24-demo/linux/-/pipelines

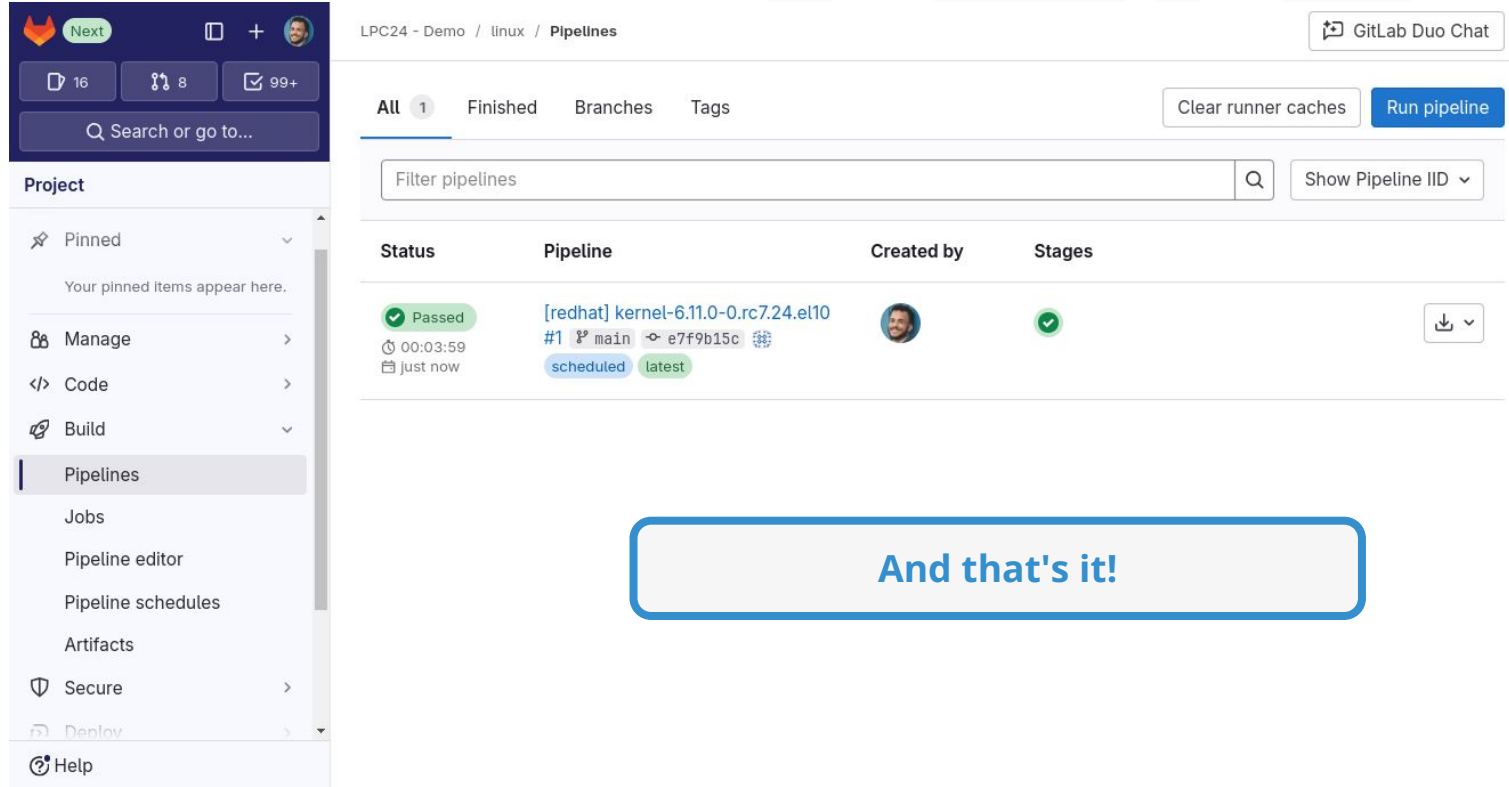
Hooking a tree! Option b: mirror it



The screenshot shows the GitLab Pipelines interface for the project 'LPC24 - Demo / linux'. The left sidebar contains navigation options: Project, Pinned, Manage, Code, Build, Pipelines (selected), Jobs, Pipeline editor, Pipeline schedules, Artifacts, Secure, Deploy, and Help. The main content area shows a table of pipelines with the following columns: Status, Pipeline, Created by, and Stages. A single pipeline is listed with a 'Running' status, ID '#1', and a 'scheduled' stage. A blue callout box at the bottom center contains the text: 'The pipeline will look like this'.

| Status | Pipeline | Created by | Stages |
|---------|--|---|---|
| Running | [redhat] kernel-6.11.0-rc7.24.el10 #1 main e7f9b15c scheduled latest |  |  |

Hooking a tree! Option b: mirror it



LPC24 - Demo / linux / Pipelines



GitLab Duo Chat

All 1 Finished Branches Tags

Clear runner caches Run pipeline

Filter pipelines

Show Pipeline IID

| Status | Pipeline | Created by | Stages |
|--------------------------------|--|---|---|
| Passed 00:03:59 Just now | [redhat] kernel-6.11.0-0.rc7.24.el10 #1 main e7f9b15c scheduled latest |  |  |

And that's it!

And what about tests?

KernelCI Boot test

Booting in **QEMU** can be facilitated with
github.com/arighi/virtme-ng written by Andrea Righi (Canonical),
based on **virtme**, written by Andy Lutomirski



KernelCI Boot test

```
1 compile:
2 image: docker.io/debian:trixie-slim
3 variables:
4 ARTIFACTS_PATH: "${CI_PROJECT_DIR:-/tmp}/artifacts"
5 BUILD_PATH: "${ARTIFACTS_PATH}/build"
6 INSTALL_PATH: "${ARTIFACTS_PATH}/kernel-install"
7 ARCH: "x86_64"
8 KSELFTEST_TARGETS: "size"
9 COMMAND: |
10     echo 'Successful boot!'
11     cat /proc/version
12     ${INSTALL_PATH}/run_kselftest.sh
13 script:
14 - |
15     apt update && apt install -y --no-install-recommends \
16         bash bc bison build-essential cpio flex gcc git iproute2 \
17         libelf-dev libssl-dev make pahole pkg-config python3 udev \
18         qemu-system-x86 systemd-sysv virtme-ng rsync
19 - |
```

We'll need some new dependencies

KernelCI Boot test

```
1 compile:
2 image: docker.io/debian:trixie-slim
3 variables:
4   ARTIFACTS_PATH: "${CI_PROJECT_DIR:-/tmp}/artifacts"
5   BUILD_PATH: "${ARTIFACTS_PATH}/build"
6   INSTALL_PATH: "${ARTIFACTS_PATH}/kernel-install"
7   ARCH: "x86_64"
8   KSELFTEST_TARGETS: "size"
9   COMMAND: |
10    echo 'Successful boot!'
11    cat /proc/version
12    ${INSTALL_PATH}/run_kselftest.sh
13 script:
14   - |
15     apt update && apt install -y --no-install-recommends \
16       bash bc bison build-essential cpio flex gcc git iproute2 \
17       libelf-dev libssl-dev make pahole pkg-config python3 udev \
18       qemu-system-x86 systemd-sysv virtme-ng rsync
19   - |
```

We can define a basic boot check

KernelCI Boot test

```
13 script:
14 - |
15 apt update && apt install -y --no-install-recommends \
16     bash bc bison build-essential cpio flex gcc git iproute2 \
17     libelf-dev libssl-dev make pahole pkg-config python3 udev \
18     qemu-system-x86 systemd-sysv virtme-ng rsync
19 - |
20 if [ "$(head -n1 README 2>/dev/null)" != "Linux kernel" ]; then
21     git clone --depth 1 \
22         https://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git
23     cd linux
24     fi
25 - mkdir -p "${ARTIFACTS_PATH}"
26 - mkdir -p "${BUILD_PATH}"
27 - mkdir -p "${INSTALL_PATH}"
28 # Create a basic .config supporting virtme
29 - virtme-configkernel --defconfig --arch "${ARCH}" O="${BUILD_PATH}"
30 # Build the kernel
31 - make O="${BUILD_PATH}" -j$(nproc)
```

And a new kind of .config

KernelCI Boot test

```
25 - mkdir -p "${ARTIFACTS_PATH}"
26 - mkdir -p "${BUILD_PATH}"
27 - mkdir -p "${INSTALL_PATH}"
28 # Create a basic .config supporting virtme
29 - virtme-configkernel --defconfig --arch "${ARCH}" O="${BUILD_PATH}"
30 # Build the kernel
31 - make O="${BUILD_PATH}" -j$(nproc)
32 # Build kselftests
33 - make O="${BUILD_PATH}" headers
34 - |
35   make O="${BUILD_PATH}" -C "./tools/testing/selftests" \
36     TARGETS="${KSELFTEST_TARGETS}"
37 # install the kselftests
38 - |
39   make O="${BUILD_PATH}" -C "./tools/testing/selftests" \
40     TARGETS="${KSELFTEST_TARGETS}" install INSTALL_PATH="${INSTALL_PATH}"
41 # Boot test
42 - cd $BUILD_PATH
43 - vng --verbose --rwdir=/tmp="${ARTIFACTS_PATH}" --exec "${COMMAND}"
```

Compile everything that we'll need

KernelCI Boot test

```
25 - mkdir -p "${ARTIFACTS_PATH}"
26 - mkdir -p "${BUILD_PATH}"
27 - mkdir -p "${INSTALL_PATH}"
28 # Create a basic .config supporting virtme
29 - virtme-configkernel --defconfig --arch "${ARCH}" O="${BUILD_PATH}"
30 # Build the kernel
31 - make O="${BUILD_PATH}" -j$(nproc)
32 # Build kselftests
33 - make O="${BUILD_PATH}" headers
34 - |
35   make O="${BUILD_PATH}" -C "./tools/testing/selftests" \
36     TARGETS="${KSELFTEST_TARGETS}"
37 # install the kselftests
38 - |
39   make O="${BUILD_PATH}" -C "./tools/testing/selftests" \
40     TARGETS="${KSELFTEST_TARGETS}" install INSTALL_PATH="${INSTALL_PATH}"
41 # Boot test
42 - cd $BUILD_PATH
43 - vng --verbose --rwdir=/tmp="${ARTIFACTS_PATH}" --exec "${COMMAND}"
```

And we can already boot!

KernelCI Boot test

Next

16 15 99+

Search or go to...

Project

Your pinned items appear here.

- Manage
- Code
- Build
- Pipelines
- Jobs**
- Pipeline editor
- Pipeline schedules
- Artifacts
- Secure
- Deploy
- Operate
- Analyze
- Help

LPC24 - Demo / linux / Jobs / #7824220490

GitLab Duo Chat

Search visible log output

```
7588 $ cd $BUILD_PATH
7589 $ vng --verbose --rwdir=/tmp="{ARTIFACTS_PATH}" --exec "${COMMAN
D}"
7590 early console in setup code
7591 No EFI environment detected.
7592 early console in extract_kernel
7593 input_data: 0x0000000029d92c4
7594 input_len: 0x00000000b46c27
7595 output: 0x000000001000000
7596 output_len: 0x0000000024da014
7597 kernel_total_size: 0x000000002230000
7598 needed_size: 0x000000002600000
7599 trampoline_32bit: 0x000000000000000
7600 Physical KASLR using RDTSC...
7601 Virtual KASLR using RDTSC...
7602 Decompressing Linux... Parsing ELF... Performing relocations... d
one.
7603 Booting the kernel (entry_offset: 0x000000000000000).
7604 [ 0.000000] Linux version 6.11.0-rc7+ (root@runner-rdbuk-d--pr
oject-61669785-concurrent-0) (gcc (Debian 14.2.0-3) 14.2.0, GNU l
d (GNU Binutils for Debian) 2.43.1) #1 SMP PREEMPT_DYNAMIC Sat Se
p 14 01:42:03 UTC 2024
7605 [ 0.000000] Command line: virtme_hostname=virtme-ng nr_open=10
73741816 virtme_link_mods=/artifacts/build/.virtme_mods/lib/modul
es/0.0.0 virtme_initmount0=/tmp virtme_rw_overlay0=/etc virtme_rw
_overlay1=/lib virtme_rw_overlay2=/home virtme_rw_overlay3=/opt v
irtme_rw_overlay4=/srv virtme_rw_overlay5=/usr virtme_rw_overlay6
=/var virtme_rw_overlay7=/tmp console=ttyS0 earlyprintk=serial,tt
yS0,115200 panic=-1 virtme.exec='ZWNobyAnU3VjY2Vzc2Z1bCBib290ISck
Y2F0IC9wcm91I3Z1cnNpb24KI2FvdG1mYWN0cV9r7XJuZWRtaW5zd6F6shC9yvdW5fa
```

Duration: 10 minutes 52 seconds
Finished: 42 minutes ago

Look at that green!

Commit e936e7d4
Merge tag 'spi-fix-v6.11-rc7' of git://git.kernel.org/pub/scm/linux/kernel/git/broonie/spi

Pipeline #1453243342 Passed for master

test

Related jobs

→ Passed compile

KernelCI Boot test

Next

16 15 99+

Search or go to...

Project

Your pinned items appear here.

- Manage
- Code
- Build
- Pipelines
- Jobs**
- Pipeline editor
- Pipeline schedules
- Artifacts
- Secure
- Deploy
- Operate
- Analyze
- Help

LPC24 - Demo / linux / Jobs / #7824220490

GitLab Duo Chat

Search visible log output

```
8020 [ 9.592501] virtme-init: starting script
8021 Successful boot!
8022 Linux version 6.11.0-rc7+ (root@runner-rdbuk-d--project-61669785-
concurrent-0) (gcc (Debian 14.2.0
for Debian) 2.43.1) #1 SMP PREEMP
C 2024
8023 [ 9.832545] kselftest: Running
8024 TAP version 13
8025 1..1
8026 # timeout set to 45
8027 # selftests: size: get_size
8028 # TAP version 13
8029 # # Testing system size.
8030 # ok 1 get runtime memory use
8031 # # System runtime memory report (units in Kilobytes):
8032 # ---
8033 # Total: 995680
8034 # Free: 926604
8035 # Buffer: 0
8036 # In use: 69076
8037 # ...
8038 # 1..1
8039 ok 1 selftests: size: get_size
8040 [ 10.775345] virtme-init: script returned {0}
8041 [ 10.924650] ACPI: PM: Preparing to enter system sleep state S5
8042 [ 10.925867] kvm: exiting hardware virtualization
8043 [ 10.926299] reboot: Power down
8044 Cleaning up project directory and file based variables
8045 Job succeeded
```

It actually booted and tested!

Duration: 10 minutes 52 seconds
Finished: 33 minutes ago

Commit e936e7d4
Merge tag 'spi-fix-v6.11-rc7' of git://git.kernel.org/pub/scm/linux/kernel/git/broonie/spi

Pipeline #1453243342 Passed for master

test

Related jobs

→ Passed compile

```
Successful boot!
```

```
Linux version 6.11.0-rc7+ (root@n  
concurrent-0) (gcc (Debian 14.2.0-3) 14.2.0, GNU ld (GNU Binutils  
for Debian) 2.43.1) #1 SMP PREEMPT_DYNAMIC Sat Sep 14 01:42:03 UT  
C 2024
```

It actually booted and tested!

```
[ 9.832545] kselftest: Running tests in size
```

```
TAP version 13
```

```
1..1
```

```
# timeout set to 45
```

```
# selftests: size: get_size
```

```
# TAP version 13
```

Some real examples

Intel Xe DRM driver

☰ Intel Xe

🗺 8 languages ▾

Article [Talk](#)

[Read](#) [Edit](#) [View history](#) [Tools](#) ▾

From Wikipedia, the free encyclopedia

Not to be confused with [Intel Parallel Studio XE](#) or [Intel Xeon](#).

Intel Xe (stylized as **X^e** and pronounced as two separate letters,^[1] abbreviation for "eXascale for everyone"^[2]), earlier known unofficially as **Gen12**,^{[3][4]} is a [GPU architecture](#) developed by [Intel](#).^[5]

Intel Xe includes a new [instruction set architecture](#). The Xe GPU family consists of a series of microarchitectures, ranging from integrated/low power (Xe-LP),^[6] to enthusiast/high performance gaming (Xe-HPG), datacenter/high performance (Xe-HP) and high performance computing (Xe-HPC).^{[7][8]}

History [\[edit\]](#)

Intel Xe



June 2024 Archives by thread

Developed on a maillist

- Messages sorted by: [\[subject \]](#) [\[author \]](#) [\[date \]](#)
- [More info on this list...](#)

Starting: Sat Jun 1 18:19:38 UTC 2024

Ending: Tue Jun 11 14:52:54 UTC 2024

Messages: 1116

- [\[drm-xe:drm-xe-next\] BUILD SUCCESS 877517f2dcha58867b64e3e0c616f26c62d4a8db](#) *kernel test robot*
- [\[PATCH v2\] MAINTAINERS: Update Xe driver maintainers](#) *Thomas Hellström*
 - [✓ CI.Patch applied: success for MAINTAINERS: Update Xe driver maintainers \(rev2\)](#) *Patchwork*
 - [✓ CI.checkpatch: success for MAINTAINERS: Update Xe driver maintainers \(rev2\)](#) *Patchwork*
 - [✓ CI.KUnit: success for MAINTAINERS: Update Xe driver maintainers \(rev2\)](#) *Patchwork*
 - [✓ CI.Build: success for MAINTAINERS: Update Xe driver maintainers \(rev2\)](#) *Patchwork*
 - [✗ CI.Hooks: failure for MAINTAINERS: Update Xe driver maintainers \(rev2\)](#) *Patchwork*
 - [✓ CI.checksparse: success for MAINTAINERS: Update Xe driver maintainers \(rev2\)](#) *Patchwork*
 - [✓ CI.BAT: success for MAINTAINERS: Update Xe driver maintainers \(rev2\)](#) *Patchwork*
 - [✗ CI.FULL: failure for MAINTAINERS: Update Xe driver maintainers \(rev2\)](#) *Patchwork*
 - [\[PATCH v2\] MAINTAINERS: Update Xe driver maintainers](#) *Dave Airlie*
 - [\[PATCH v2\] MAINTAINERS: Update Xe driver maintainers](#) *Jani Nikula*
 - [\[PATCH v2\] MAINTAINERS: Update Xe driver maintainers](#) *Lucas De Marchi*
- [\[PATCH 2/2\] drm/xe: Fix xe force wake assert held for enum XE_FORCEWAKE_ALL](#) *Ghimiray, Himal Prasad*
- [\[PATCH 1/2\] drm/xe: Add member supported domains to xe force wake](#) *Ghimiray, Himal Prasad*



Normally uses Intel GFX CI

Intel GFX CI

What Is It About?

We are continuously testing [i915](#) and Intel Xe (a Linux kernel device drivers for Intel Graphics) in an automated fashion, with a goal of having production ready upstream.

Hardware List

Our CI system is composed of multiple Intel machines spanning many generations and display types. You can find our full hardware list [here](#).

Pre-Merge Testing

This is the crux of this CI system. We test each patch that goes in our driver ([i915](#)), Intel Xe or in the DRM drivers test suite we use ([IGT GPU Tools](#)) before it lands in the repository and compare the results with the [post-merge baseline](#) ([we filter out known bugs](#)). This shifts the cost of integration on the people making the change and helps us avoid time-consuming bisection and reverts.

Since we accept patches through mailing lists, this is where you can find the results - they are sent out as a replies to the original mail. We run [BAT](#) and [FULL IGT](#) (if BAT is successful). On a usual day you can expect result emails for a BAT within 1 hour and for FULL IGT within 6 hours. You will receive the emails even if the run is successful.

TABLE OF CONTENTS

- Intel GFX CI
 - > What Is It About?
 - > Hardware List
 - > Pre-Merge Testing
 - > Trybot - available only for i915
 - > Queues
 - > Forcing Tests In BAT And Changing Configuration
 - > Testing Combined IGT And Kernel Changes - available only for i915
 - > Git Trees Tested Post-Merge
 - > Repositories With CI Tags
 - > Results Filtering And Bug Tracking
 - > The Kinds Of Runs
 - > Basic Acceptance Tests (aka BAT)
 - > Full IGT (aka sharded runs)
 - > Idle Runs
 - > Other Runs
 - > Contacts



Patchwork Intel Xe Series Login Register Mail settings

Which posts results to Patchwork

Series

Filter by: Status ▾ Date ▾ Submitter ▾ Reviewer ▾ Tests ▾

Showing 1821 series with status: 'new', 'in progress', 'incomplete' [reset filters](#) « 1 2 ... 19 »

| ID | Series | Tests | Status | Patches | Submitter | Reviewer | Updated ▾ |
|--------|---|---------|--------|---------|---------------------------|----------|------------|
| 134722 | Promote GuC ABI headers to shared location | | New | 7 | Michal Wajdeczko | None | 2024-06-11 |
| 134690 | Prepare Xe force-wake code for VFs | failure | New | 4 | Michal Wajdeczko | None | 2024-06-11 |
| 134684 | series starting with [v5,1/2] devcoredump: Add dev_coredumpm_timeout() | failure | New | 2 | Souza, Jose | None | 2024-06-11 |
| 134695 | drm/xe/guc: Improve quality and robustness of GuC log dumping | failure | New | 7 | john.c.harrison@intel.com | None | 2024-06-11 |
| 134694 | series starting with [1/2] drm/xe: Fix missing workqueue destroy in xe_gt_pagefault | failure | New | 2 | Stuart Summers | None | 2024-06-11 |



KernelCI Intel Xe DRM driver

June 2024 Archives by thread

Which then reports to the maillist

- Messages sorted by: [\[subject \]](#) [\[author \]](#) [\[date \]](#)
- [More info on this list...](#)

Starting: Sat Jun 1 18:19:38 UTC 2024

Ending: Tue Jun 11 14:52:54 UTC 2024

Messages: 1116

- [\[drm-xe:drm-xe-next\] BUILD SUCCESS 877517f2dcbaf59367b64e3e0c616f26c62d4a8db](#) *kernel test robot*
- [\[PATCH v2\] MAINTAINERS: Update Xe driver maintainers](#) *Thomas Hellström*
 - [✓ CI.Patch applied: success for MAINTAINERS: Update Xe driver maintainers \(rev2\)](#) *Patchwork*
 - [✓ CI.checkpatch: success for MAINTAINERS: Update Xe driver maintainers \(rev2\)](#) *Patchwork*
 - [✓ CI.KUnit: success for MAINTAINERS: Update Xe driver maintainers \(rev2\)](#) *Patchwork*
 - [✓ CI.Build: success for MAINTAINERS: Update Xe driver maintainers \(rev2\)](#) *Patchwork*
 - [✗ CI.Hooks: failure for MAINTAINERS: Update Xe driver maintainers \(rev2\)](#) *Patchwork*
 - [✓ CI.checksparse: success for MAINTAINERS: Update Xe driver maintainers \(rev2\)](#) *Patchwork*
 - [✓ CI.BAT: success for MAINTAINERS: Update Xe driver maintainers \(rev2\)](#) *Patchwork*
 - [✗ CI.FULL: failure for MAINTAINERS: Update Xe driver maintainers \(rev2\)](#) *Patchwork*
 - [\[PATCH v2\] MAINTAINERS: Update Xe driver maintainers](#) *Dave Airlie*
 - [\[PATCH v2\] MAINTAINERS: Update Xe driver maintainers](#) *Jani Nikula*
 - [\[PATCH v2\] MAINTAINERS: Update Xe driver maintainers](#) *Lucas De Marchi*
- [\[PATCH 2/2\] drm/xe: Fix xe force wake assert held for enum XE_FORCEWAKE_ALL](#) *Ghimiray, Himal Prasad*
- [\[PATCH 1/2\] drm/xe: Add member supported domains to xe force wake](#) *Ghimiray, Himal Prasad*



drm / xe / xe kernel driver

But has the repo on GitLab



xe kernel driver



☆ Star 20

🍴 Fork 43



Project information

Kernel repository for drm/xe

🔗 1,268,077 Commits 🌿 15 Branches 🏷️ 63 Tags

📄 README 📄 LICENSE

Created on

January 24, 2022

🍴 drm-xe-next

kernel /

+

History

Find file

Edit

Code



drm / xe / xe kernel driver / Pipelines / #974319

Which has CI enabled

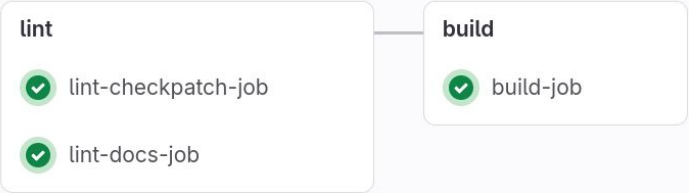
drm/xe: Convert remaining instances of ttm_eu_reserve_buffers to drm_exec

Passed Thomas Hellström created pipeline for commit `fcdfc967` 9 months ago, finished 9 months ago

Related merge request [!355](#) to merge [xe_drm_exec](#)

latest [merge request](#) 3 jobs 8 minutes 17 seconds, queued for 8 seconds

Pipeline Needs Jobs 3 Tests 0



drm / xe / ci

Implemented in a separate repo

C ci 



☆ Star

0

🍴 Fork

17



Project information


CI configuration for gitlab for xe-related repositories

🔗 120 Commits  1 Branch  0 Tags

 README

Created on

July 28, 2022

 main 

ci /

History

Find file

Edit 

Code 

📁 drm / xe / ci

Implemented in a separate repo

| Name | Last commit | Last update |
|----------------|--|--------------|
| 📁 hooks | hooks: Fix build after 6.10 | 5 days ago |
| 📁 kernel | Merge branch 'pr_fault-injection-r... | 3 weeks ago |
| 📄 README.md | config: Use minimized distro confi... | 4 months ago |
| 📄 re-config.sh | re-config: Allow to use different b... | 3 weeks ago |
| 📄 run-hooks.sh | run-hooks: Print message at the e... | 1 year ago |

📄 README.md

Xe CI

CI configuration for Xe-related repositories.



Running a few basic steps

drm/xe: Convert remaining instances of ttm_eu_reserve_buffers to drm_exec

✓ Passed Thomas Hellström created pipeline for commit `fcdfc967` 9 months ago, finished 9 months ago

Related merge request [!355](#) to merge [xe_drm_exec](#)

latest [merge request](#) 3 jobs ⌚ 8 minutes 17 seconds, queued for 8 seconds

Pipeline

Needs

Jobs **3**

Tests **0**

lint

✓ lint-checkpatch-job

✓ lint-docs-job

build

✓ build-job



drm / xe / xe kernel driver / Pipelines / #974319

checkpatch

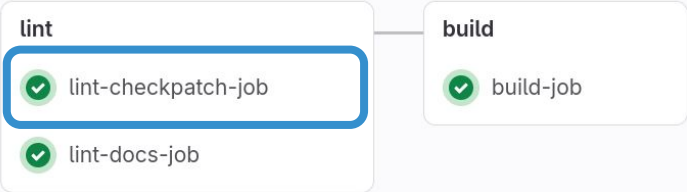
drm/xe: Convert remaining instances of ttm_eu_reserve_buffers to drm_exec

Passed Thomas Hellström created pipeline for commit `fcdfc967` 9 months ago, finished 9 months ago

Related merge request [!355](#) to merge [xe_drm_exec](#)

latest [merge request](#) 3 jobs 8 minutes 17 seconds, queued for 8 seconds

Pipeline Needs Jobs **3** Tests **0**





drm/xe: Convert remaining instances of ttm_eu_reserve_buffers to drm_exec

Passed Thomas Hellström created pipeline for commit fcdfc967 9 months ago, finished 9 months ago

```
17 Executing "step_script" stage of the job script 00:59
18 Using docker image sha256:01f29b872827fa6f9aed0ea0b2ede53aea4ad9d66c
7920e81a8db6d1fd9ab7f9 for ubuntu:22.04 with digest ubuntu@sha256:ec
050c32e4a6085b423d36ecd025c0d3fff00c38ab93a3d71a460ff1c44fa6d77 ...
19 $ echo -e "\e[0Ksection_start:${(date +%s)}:install_dependencies[collap
sed=true]\r\e[0KInstall dependencies"
> 20 Install dependencies 00:52
888 $ echo "checkpatch code ${CI_MERGE_REQUEST_DIFF_BASE_SHA}..HEAD..."
889 checkpatch code 72da4b45f58f2a95d45743801a10e1f1e1dcce05..HEAD...
890 $ ./scripts/checkpatch.pl -q --emacs --strict --show-types --max-lin
e-length=100 --ignore=BIT_MACRO,SPLIT_STRING,LONG_LINE_STRING,BOOL_M
EMBER -g ${CI_MERGE_REQUEST_DIFF_BASE_SHA}..HEAD
> 891 Cleaning up project directory and file based variables 00:00
892 Job succeeded
```



kernel-doc

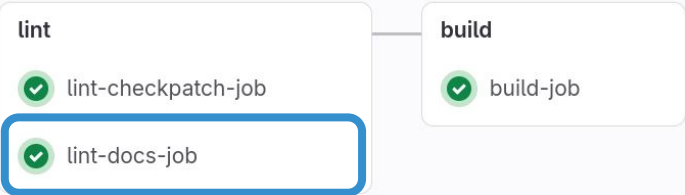
drm/xe: Convert remaining instances of ttm_eu_reserve_buffers to drm_exec

Passed Thomas Hellström created pipeline for commit `fcdfc967` 9 months ago, finished 9 months ago

Related merge request [!355](#) to merge [xe_drm_exec](#)

latest [merge request](#) 3 jobs 8 minutes 17 seconds, queued for 8 seconds

Pipeline Needs Jobs 3 Tests 0





drm/xe: Convert remaining instances of ttm_eu_reserve_buffers to drm_exec



Passed

Thomas Hellström created pipeline for commit `fcdfc967` 9 months ago, finished 9 months ago

Rel:

lat

P

```
15 Executing "step_script" stage of the job script 00:52
16 Using docker image sha256:01f29b872827fa6f9aed0ea0b2ede53aea4ad9d66c
7920e81a8db6d1fd9ab7f9 for ubuntu:22.04 with digest ubuntu@sha256:ec
050c32e4a6085b423d36ecd025c0d3ff00c38ab93a3d71a460ff1c44fa6d77 ...
17 $ echo -e "\e[0Ksection_start:$(date +%s):install_dependencies[collap
sed=true]\r\e[0KInstall dependencies"
18 Install dependencies 00:51
886 $ echo "kernel-doc lint..."
887 kernel-doc lint...
888 $ find drivers/gpu/drm/xe/ -name '*.[ch]' -not -path 'drivers/gpu/dr
m/xe/display/*' -not -path drivers/gpu/drm/xe/i915_utils.h | xargs
./scripts/kernel-doc -Werror -none
889 Cleaning up project directory and file based variables 00:01
890 Job succeeded
```



drm / xe / xe kernel driver / Pipelines / #974319

Build

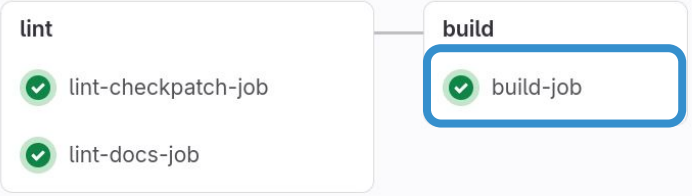
drm/xe: Convert remaining instances of ttm_eu_reserve_buffers to drm_exec

Passed Thomas Hellström created pipeline for commit `fcdfc967` 9 months ago, finished 9 months ago

Related merge request [!355](#) to merge [xe_drm_exec](#)

latest [merge request](#) 3 jobs 8 minutes 17 seconds, queued for 8 seconds

Pipeline Needs Jobs **3** Tests **0**





drm/xe: Convert remaining instances of ttm_eu_reserve_buffers to drm_exec

Passed Thomas Hellström created pipeline for commit `fcdfc967` 9 months ago, finished 9 months ago

```
Rel
lat
P

> 908 Build x86-64 03:52
8875 $ echo -e "\e[0Ksection_start:$(date +%s):build_x86_64_warnings[co
lapsed=true]\r\e[0KBuild x86-64 - xe with W=1"
> 8876 Build x86-64 - xe with W=1 05:25
✓ 9137 Running after_script 00:00
9138 Running after script...
9139 $ echo -e "\e[0Ksection_start:$(date +%s):ccache_after[collapsed=tr
ue]\r\e[0Kccache stats after build"
> 9140 ccache stats after build 00:00
✓ 9156 Cleaning up project directory and file based variables 00:01
9157 Job succeeded
```




The whole of CI YAML

```
1 workflow:
2   rules:
3     - if: $CI_PIPELINE_SOURCE == 'merge_request_event'
4
5 default:
6   tags:
7     - xe
8   before_script:
9     - echo -e "\e[0Ksection_start:${date +%s}:install_dependencies[collapsed=true]\r\e[0KInstall dependencies"
10    - apt update
11    - apt install --yes
12      git perl-doc
13      build-essential ccache
14      bc gawk flex bison libelf-dev libpci-dev libiberty-dev autoconf xz-utils
15    - echo -e "\e[0Ksection_end:${date +%s}:install_dependencies\r\e[0K"
16
17 stages:
18   - lint
19   - build
20
21 lint-checkpatch-job:
22   stage: lint
23   allow_failure: true
24   # TODO: move to using dim from maintainer-tools
25   script:
26     - echo "checkpatch code ${CI_MERGE_REQUEST_DIFF_BASE_SHA}..HEAD..."
27     - ./scripts/checkpatch.pl
28       -q --emacs --strict --show-types
29       --max-line-length=100
30       --ignore=BIT_MACRO,SPLIT_STRING,LONG_LINE_STRING,BOOL_MEMBER
31     - g ${CI_MERGE_REQUEST_DIFF_BASE_SHA}..HEAD
32
33 lint-docs-job:
34   stage: lint
35   script:
36     - echo "kernel-doc lint..."
37     - find drivers/gpu/drm/xe/ -name '*.ch'
38       -not -path 'drivers/gpu/drm/xe/display/*'
39       -not -path drivers/gpu/drm/xe/i915_utils.h |
40     xargs ./scripts/kernel-doc -Werror -none
41
```

```
42 .ccache-setup:
43   variables:
44     CCACHE_COMPILERCHECK: "content"
45     CCACHE_COMPRESS: "true"
46     CCACHE_DIR: /cache/xe-kernel/ccache
47   # Use ccache transparently, and print stats before/after
48   before_script:
49     - !reference [default, before_script]
50     - export PATH="/usr/lib/ccache:$PATH"
51     - export CCACHE_BASEDIR="$PWD"
52     - echo -e "\e[0Ksection_start:${date +%s}:ccache_before[collapsed=true]\r\e[0Kccache stats before build"
53     - ccache --show-stats
54     - echo -e "\e[0Ksection_end:${date +%s}:ccache_before\r\e[0K"
55   after_script:
56     - echo -e "\e[0Ksection_start:${date +%s}:ccache_after[collapsed=true]\r\e[0Kccache stats after build"
57     - ccache --show-stats
58     - echo -e "\e[0Ksection_end:${date +%s}:ccache_after\r\e[0K"
59
60 build-job:
61   extends: .ccache-setup
62   stage: build
63   script:
64     - git clone https://gitlab-ci-token:${CI_JOB_TOKEN}@gitlab.freedesktop.org/drm/xe/ci.git .ci
65
66     - echo -e "\e[0Ksection_start:${date +%s}:build_x86_64[collapsed=true]\r\e[0KBuild x86-64"
67     - mkdir -p build64
68     - cat .ci/kernel/kconfig > build64/.config
69     - make O=build64 olddefconfig
70     - make O=build64 -j$(nproc)
71     - echo -e "\e[0Ksection_end:${date +%s}:build_x86_64\r\e[0K"
72
73     - echo -e "\e[0Ksection_start:${date +%s}:build_x86_64_warnings[collapsed=true]\r\e[0KBuild x86-64 - xe with W=1"
74     # CONFIG_DRM_XE_DISPLAY currently breaks build with W=1. Just disable it for now
75     ./scripts/config --file build64/.config --disable CONFIG_DRM_XE_DISPLAY
76     - make O=build64 modules_prepare
77     - make O=build64 M=drivers/gpu/drm/xe W=1 -j$(nproc)
78     - echo -e "\e[0Ksection_end:${date +%s}:build_x86_64\r\e[0K"
79
```

Multimedia and Television Support



The screenshot shows the LinuxTV website with a dark theme. At the top, there's a navigation bar with a yellow and black gradient. The main content area features the 'LINUX TV' logo in white. Below the logo, the title 'Multimedia and Television Support on Linux' is displayed in yellow. The text describes the LinuxTV community's role in developing and maintaining Linux Kernel Media Subsystems and userspace libraries. A sidebar on the left contains a navigation menu with items like Home, News, Documentation, Projects, Mailing Lists, Repositories, Downloads, Wiki pages, and Links, each with sub-items.

LINUX TV

Multimedia and Television Support on Linux

The LinuxTV community develops and maintains the Linux Kernel Media Subsystems and several userspace libraries and applications.

The Linux Kernel Media Subsystems provide support for devices like webcams, streaming capture and output, analog TV, digital TV, AM/FM radio, Software Digital Radio (SDR), remote controllers and encoders/decoders for compressed video formats. It offers native support for a large number of drivers for commonly available PCI cards and USB devices, but the subsystems are also targeted

- Home
- News
- Documentation
- Projects
- Mailing Lists
- Repositories
- Downloads
- Wiki pages
 - V4L-DVB
 - VDR
- Links
 - GIT trees
 - Patchwork
 - Stats



Linux Media

Developed on a maillist

- [Date Index](#)

[\[Prev Page\]](#)[\[Next Page\]](#)

-
- [\[PATCH\] media: dvb-frontends: add missing MODULE_DESCRIPTION\(\) macros](#), *Jeff Johnson*
 - [\[PATCH v9 0/3\] media: i2c: Add support for GC08A3 sensor](#), *Zhi Mao*
 - [\[PATCH v9 1/3\] media: dt-bindings: i2c: add GalaxyCore GC08A3 image sensor](#), *Zhi Mao*
 - [\[PATCH v9 2/3\] media: i2c: Add GC08A3 image sensor driver](#), *Zhi Mao*
 - [\[PATCH v9 3/3\] MAINTAINERS: Add entry for GC08A3 image sensor](#), *Zhi Mao*
 - [\[PATCH v3 0/3\] media: i2c: Add support for GT97xx VCM](#), *Zhi Mao*
 - [\[PATCH v3 1/3\] media: dt-bindings: i2c: add Giantec GT97xx VCM](#), *Zhi Mao*
 - [Re: \[PATCH v3 1/3\] media: dt-bindings: i2c: add Giantec GT97xx VCM](#), *AngeloGioacchino Del Regno*
 - [\[PATCH v3 2/3\] media: i2c: Add GT97xx VCM driver](#), *Zhi Mao*
 - [Re: \[PATCH v3 2/3\] media: i2c: Add GT97xx VCM driver](#), *AngeloGioacchino Del Regno*
 - [\[PATCH v3 3/3\] MAINTAINERS: Add entry for GT97xx VCM driver](#), *Zhi Mao*
 - [\[GIT PULL FOR v6.11\] Convert mtk-cir binding](#), *Sean Young*



LinuxTV Patchwork Linux Media kernel patches

Tracked on Patchwork

[Login](#) [Register](#) [Mail settings](#)

Show patches with: State = **Action Required** | Archived = **No** | 1269 patches

« 1 2 3 4 ... 6 7 »

| Patch | Series | A/C/F/R/T | S/W/F | ▲ Date | Submitter |
|--|---|-----------|-------|------------|--------------|
| media: dvb-frontends: add missing MODULE_DESCRIPTION() macros | media: dvb-frontends: add missing MODULE_DESCRIPTION() macros | - - - - - | --- | 2024-06-12 | Jeff Johnson |
| [v9,3/3] MAINTAINERS: Add entry for GC08A3 image sensor | media: i2c: Add support for GC08A3 sensor | - - - - - | --- | 2024-06-12 | Zhi Mao |
| [v9,2/3] media: i2c: Add GC08A3 image sensor driver | media: i2c: Add support for GC08A3 sensor | - - - 1 - | --- | 2024-06-12 | Zhi Mao |
| [v9,1/3] media: dt-bindings: i2c: add GalaxyCore GC08A3 image sensor | media: i2c: Add support for GC08A3 sensor | - - - 3 - | --- | 2024-06-12 | Zhi Mao |
| [v3,3/3] MAINTAINERS: Add entry for GT97xx VCM driver | media: i2c: Add support for GT97xx VCM | - - - - - | --- | 2024-06-12 | Zhi Mao |
| [v3,2/3] media: i2c: Add GT97xx VCM driver | media: i2c: Add support for GT97xx VCM | - - - - - | --- | 2024-06-12 | Zhi Mao |
| [v3,1/3] media: dt-bindings: i2c: add Giantec | media: i2c: Add support for | - - - 1 - | --- | 2024-06-12 | Zhi Mao |



LINUX TV

And using Jenkins

Dashboard >

- Build History
- Project Relationship
- Check File Fingerprint
- Open Blue Ocean

Build Queue ▼

No builds in the queue.

Build Executor Status ▼

slave0

- 1 Idle
- 2 Idle

Builds for the main projects under <https://linuxtv.org>. Please notice that other projects like ZBar and libcamera use other CI automation.

All
Coverity
Kernel
Userspace

| W | Name ↓ | Last Success | Last Failure | Last Duration | # Issues |
|---|-----------------------------------|--|---|---------------|----------|
| ✔ | camorama | 5 mo 2 days #59 | N/A | 1 min 23 sec | - |
| ✔ | camorama-coverity | 4 mo 29 days #25 | N/A | 1 min 9 sec | - |
| ✔ | dtv-scan-tables | 1 mo 9 days #30 | 2 yr 1 mo #23 | 1 min 1 sec | - |
| ✔ | edid-decode | 5 days 3 hr #326 | 1 mo 2 days #322 | 9 sec | - |
| ✔ | kaffeine-coverity | 2 days 20 hr #129 | N/A | 6 min 39 sec | - |

KernelCI Multimedia and Television Support

linux-media

Yet has a presence on GitLab

| U users | | 0 | 5 | 1 |
|---------|---|---|---|--------------|
| J | jmondi | 0 | | 6 days ago |
| P | patchwork CI project for patchwork series | 0 | | 1 month ago |
| P | playground Multi-owned kernel fork. Linux-media developers can upload t... | 0 | | 1 day ago |
| R | ribalda | 0 | | 2 weeks ago |
| S | sebastianfricke | 0 | | 20 hours ago |
| M | media-ci | 3 | | 1 week ago |
| M | media-staging | 1 | | 1 day ago |





And a sophisticated CI setup in a separate repo

linux-media / media-ci

M media-ci

main media-ci / +

History Find file Edit Code


testdata/static: Update allow list ⋮
 Ricardo Ribalda Delgado authored 2 weeks ago ✓ 20605854 

| Name | Last commit | Last update |
|------------|--------------------------------|--------------|
| ci | gitlab/media-ci.yml: Use f... | 2 months ago |
| docker | docker/virtme: Remove ha... | 1 month ago |
| gitlab | gitlab-scheduler: Add lign... | 2 weeks ago |
| lib | uploaders: Rename as co... | 1 month ago |
| testdata | testdata/static: Update all... | 2 weeks ago |
| testsuites | lib/patches: Refactor no-w... | 1 month ago |

Project information

- 295 Commits
- 2 Branches
- 0 Tags

- README
- Apache License 2.0

Created on
January 24, 2024



linux-media / media-ci

Seriously, check out the README.md there!

Linux-media CI

This is a set of scripts to test and validate the media subsystem of the Linux Kernel. It is meant to help contributors, committers and maintainers of our beloved subsystem.

- [Linux-media CI](#)
 - [Preparation](#)
 - [Gitlab](#)
 - [Public container](#)
 - [Self generated container](#)
 - [Locally](#)
 - [Tests](#)
 - [ABI testsuite](#)
 - [Build testsuite](#)
 - [LLVM testsuite](#)
 - [Build ancient testsuite](#)
 - [Bisect testsuite](#)
 - [Checkpatch testsuite](#)
 - [Doc testsuite](#)
 - [Static testsuite](#)
 - [Virtme testsuite](#)
 - [Trust testsuite](#)

295 Commits

2 Branches

0 Tags

README

Apache License 2.0

Created on

January 24, 2024



linux-media / media-staging / Pipelines / #1190886

Some pipeline highlights

media: imon: Fix race getting ictx->lock

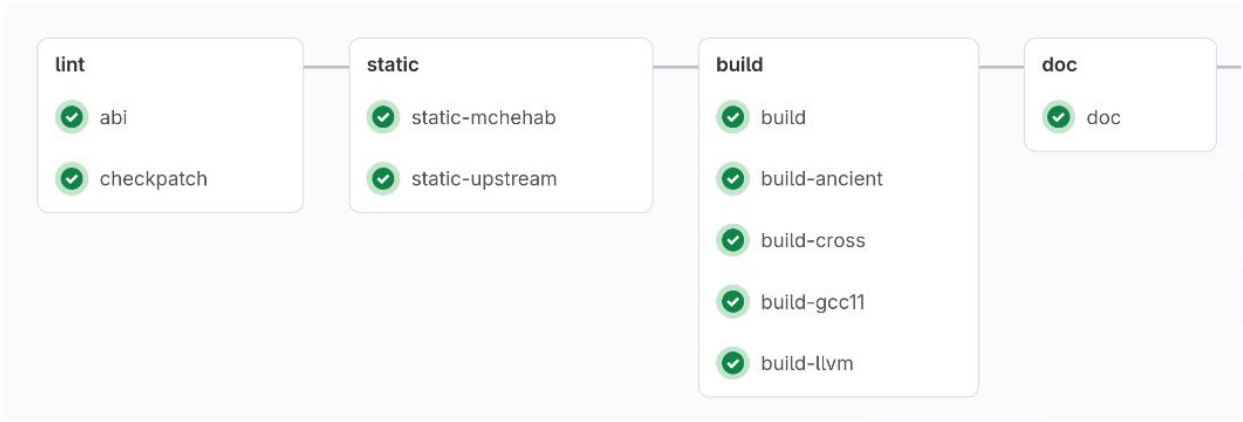
✓ Passed media-sync created pipeline for commit `24147897` 1 week ago, finished 1 week ago

For `master`

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72

Group jobs by





linux-media / media-staging / Pipelines / #1190886

Some pipeline highlights

media: imon: Fix race getting ictx->lock

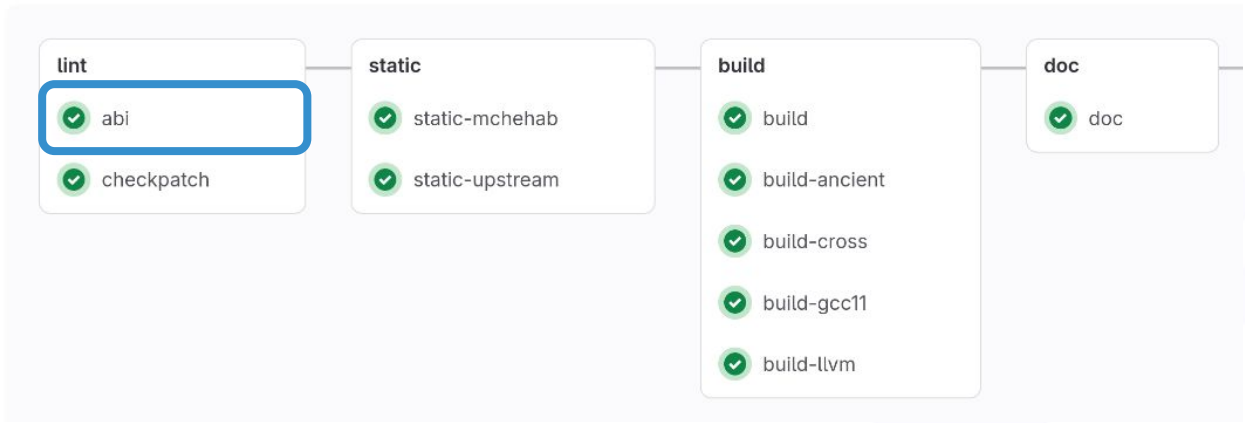
✓ Passed media-sync created pipeline for commit `24147897` 1 week ago, finished 1 week ago

For `master`

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72

Group jobs by





linux-media / media-staging / Pipelines / #1190886

Some pipeline highlights

media: imon: Fix race getting ictx->lock

✓ Passed media-sync created pipeline for commit `24147897` 1 week ago, finished 1 week ago

ABI testsuite

It validates that the ABI has not changed. It contains three tests:

- `test-compile-all.sh` :
 - Makes sure that all the media code is compiled.
- `test-pahoLe.sh` :
 - Compiles `pahoLe/pahoLe.c` for all the supported arches.
 - It checks that there are not holes or padding.
 - It checks that arm32 and x86 are identical to arm64 and x86_64 respectively.
- `test-abi-dumper.sh` :
 - Autogenerates a C file that contains all the media structures.
 - Use `abi-compliance-checker` (from `abi-dumper`) to validate that there is no ABI breakage.

✓ build-llvm



linux-media / media-staging / Pipelines / #1190886

Some pipeline highlights

media: imon: Fix race getting ictx->lock

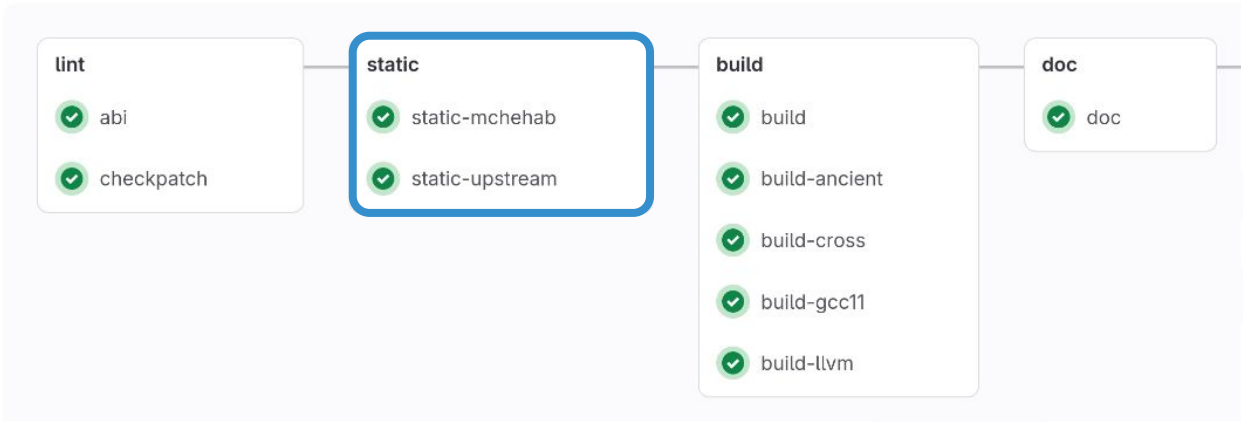
✓ Passed media-sync created pipeline for commit [24147897](#) 1 week ago, finished 1 week ago

For [master](#)

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72

Group jobs by





linux-media / media-staging / Pipelines / #1190886

Some pipeline highlights

media: imon: Fix race getting ictx->lock

Passed media-sync created pipeline for commit 24147897 1 week ago, finished 1 week ago

For master

15 jobs 68 minutes

Pipeline Needs

Group jobs by Stage

lint

abi

checkpatch

build-llvm

Static testsuite

Kernel static analyzers do not introduce new warnings.

- `test-compile-all.sh` :
 - Checks that all the media code can be compile tested.
- `test-sparse.sh` :
 - Use the sparse static analyzer building x86_64 in allyesconfig.
- `test-smatch.sh` :
 - Use the smatch static analyzer building x86_64 in allyesconfig.
- `test-coccinelle.sh` :
 - Use the coccinelle static analyzer.



linux-media / media-staging / Pipelines / #1190886

Some pipeline highlights

media: imon: Fix race getting ictx->lock

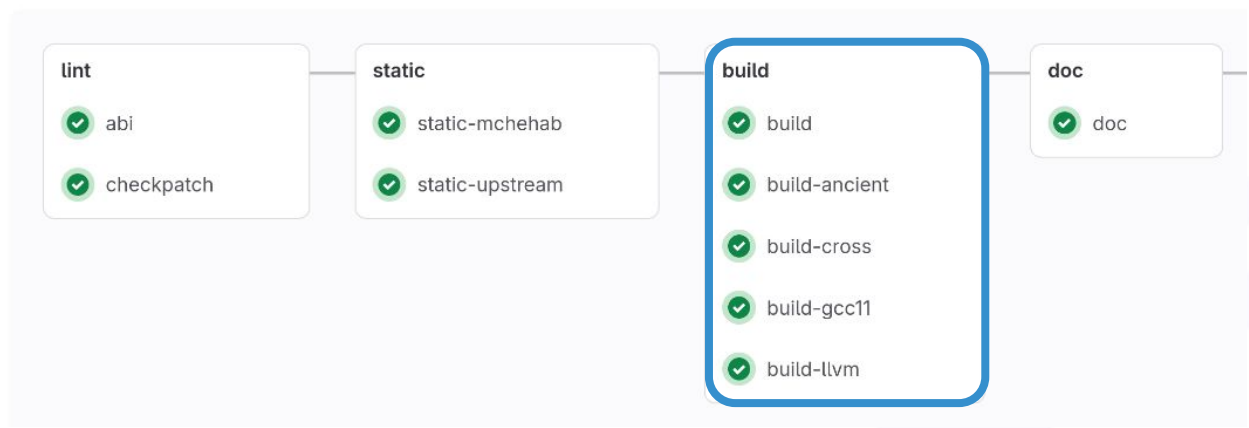
✓ Passed media-sync created pipeline for commit `24147897` 1 week ago, finished 1 week ago

For `master`

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72

Group jobs by





linux-media / media-staging / Pipelines / #1190886

Some pipeline highlights

media: imon: Fix race getting ictx->lock

✓ Passed media-sync created pipeline for commit `24147897` 1 week ago, finished 1 week ago

For `master`

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72

Group jobs by Stage Job dependencies

lint

✓ abi

✓ checkpatch

LLVM testsuite

Similar to the build testsuite but using the clang compiler instead of gcc. It builds for arm, arm64, x86, x86_64, and powerpc with the `allyesconfig` option

✓ build-gcc11

✓ build-llvm



linux-media / media-staging / Pipelines / #1190886

Some pipeline highlights

media: imon: Fix race getting ictx->lock

✓ Passed media-sync created pipeline for commit `24147897` 1 week ago, finished 1 week ago

For `master`

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72

Group jobs by Stage Jobs

lint

✓ abi

✓ checkpatch

Build testsuite

It validates that the code from the media subsystem can be built. It contains one test:

- `test-build.sh` :
 - Builds the code using the provided options

The build testsuite builds for x86 and x86_64 using the allyesconfig. It also builds using manually created config files under the `testdata/configs/` folder.



linux-media / media-staging / Pipelines / #1190886

Some pipeline highlights

media: imon: Fix race getting ictx->lock

✓ Passed media-sync created pipeline for commit `24147897` 1 week ago, finished 1 week ago

For `master`

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72

Group jobs by Stage Job dependencies

lint

✓ abi

✓ checkpatch

Build ancient testsuite

Similar to the build testsuite but using the oldest toolchain supported by the kernel, as per Documentation/process/changes.rst.

In this case we only build for x86_64 with the `alltesconfig` option.

✓ build-gcc11

✓ build-llvm



linux-media / media-staging / Pipelines / #1190886

Wait, there's more!

media: imon: Fix race getting ictx->lock

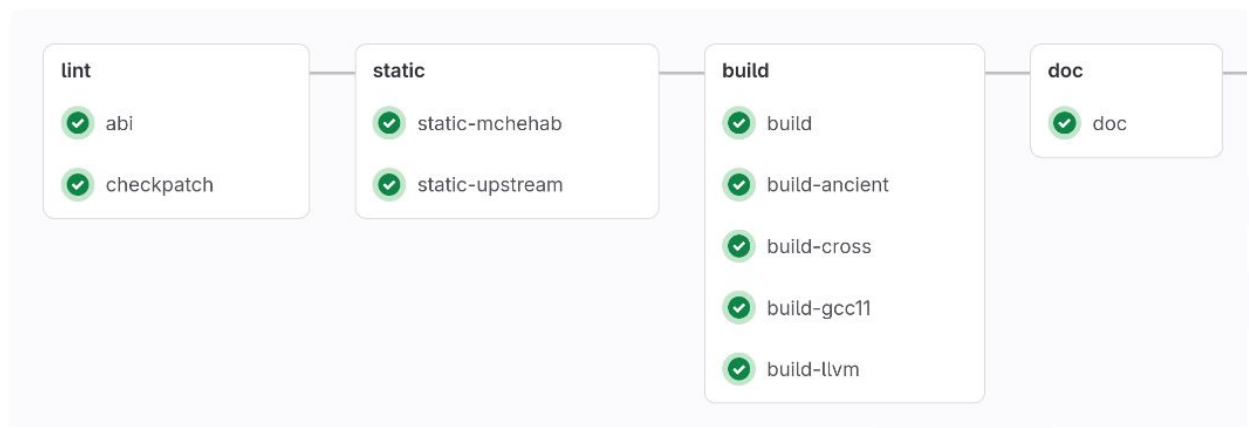
Passed media-sync created pipeline for commit 24147897 1 week ago, finished 1 week ago

For master

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72

Group jobs by Stage Job dependencies





linux-media / media-staging / Pipelines / #1190886

Wait, there's more!

media: imon: Fix race getting ictx->lock

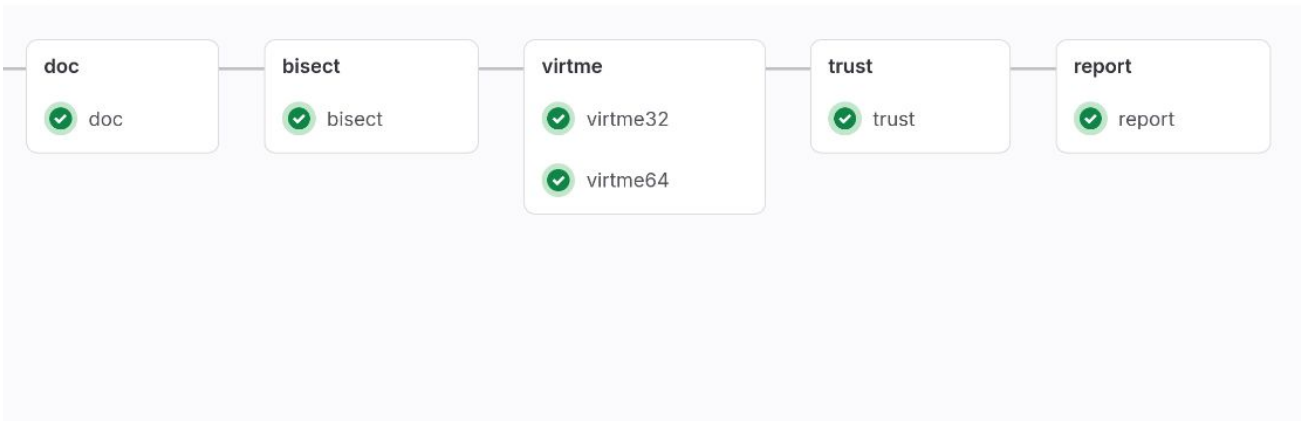
✓ Passed media-sync created pipeline for commit [24147897](#) 1 week ago, finished 1 week ago

For [master](#)

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72

Group jobs by





linux-media / media-staging / Pipelines / #1190886

Wait, there's more!

media: imon: Fix race getting ictx->lock

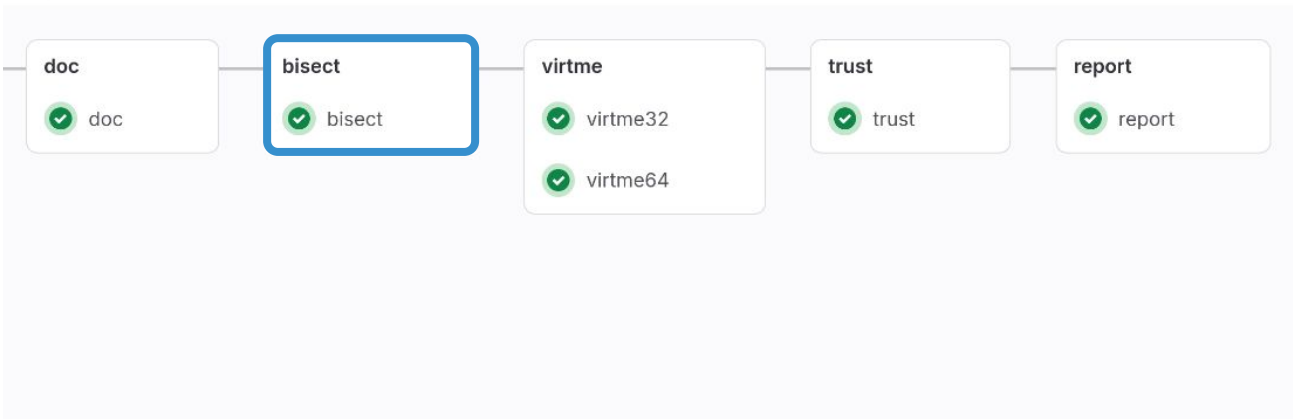
✓ Passed media-sync created pipeline for commit [24147897](#) 1 week ago, finished 1 week ago

For [master](#)

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72

Group jobs by





linux-media / media-staging / Pipelines / #1190886

Wait, there's more!

media: imon: Fix race getting ictx->lock

✓ Passed media-sync created pipeline for commit `24147897` 1 week ago, finished 1 week ago

For `master`

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline

Group jobs b

doc

✓ doc

Bisect testsuite

It validates that a patchset can be bisectable. For every patch the following tests are executed to evaluate its bisectability:

- `test-build.sh`:
 - Building allyesconfig ignoring warnings
- `test-misc.sh`:
 - Checks for unsafe strcpy and family



linux-media / media-staging / Pipelines / #1190886

Wait, there's more!

media: imon: Fix race getting ictx->lock

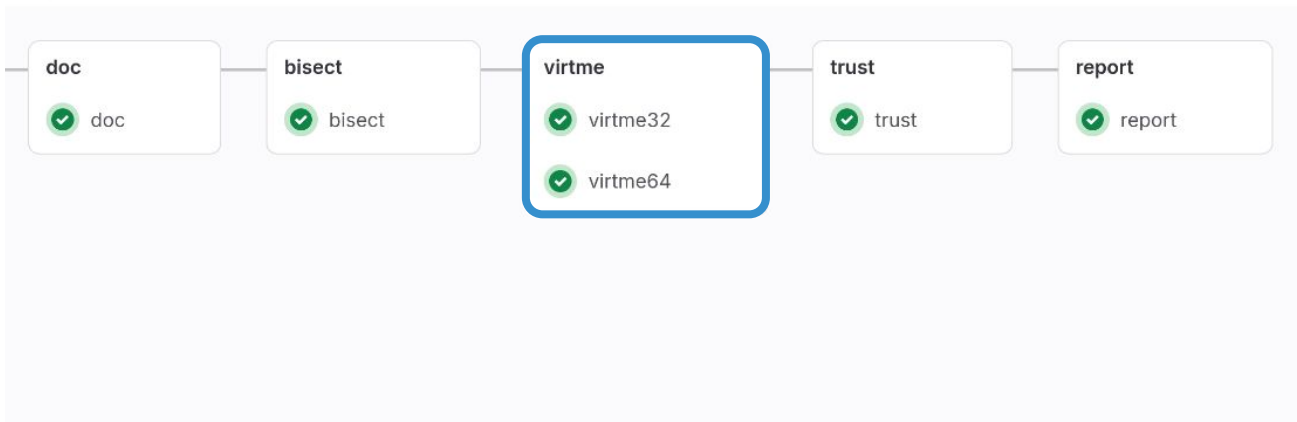
Passed media-sync created pipeline for commit 24147897 1 week ago, finished 1 week ago

For master

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72

Group jobs by Stage Job dependencies





linux-media / media-staging / Pipelines / #1190886

Wait, there's more!

media: imon: Fix race getting ictx->lock

Passed media-sync created pipeline for commit 24147897 1 week ago, finished 1 week ago

For master

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72

Group jobs by Stage Job dependencies

doc

Passed doc

Virtme testsuite

Runs the `test-media` script in a virtual machine using virtme. It runs the test twice, in 64 bit and 32 bit compatibility mode.



linux-media / media-staging / Pipelines / #1190886

Wait, there's more!

media: imon: Fix race getting ictx->lock

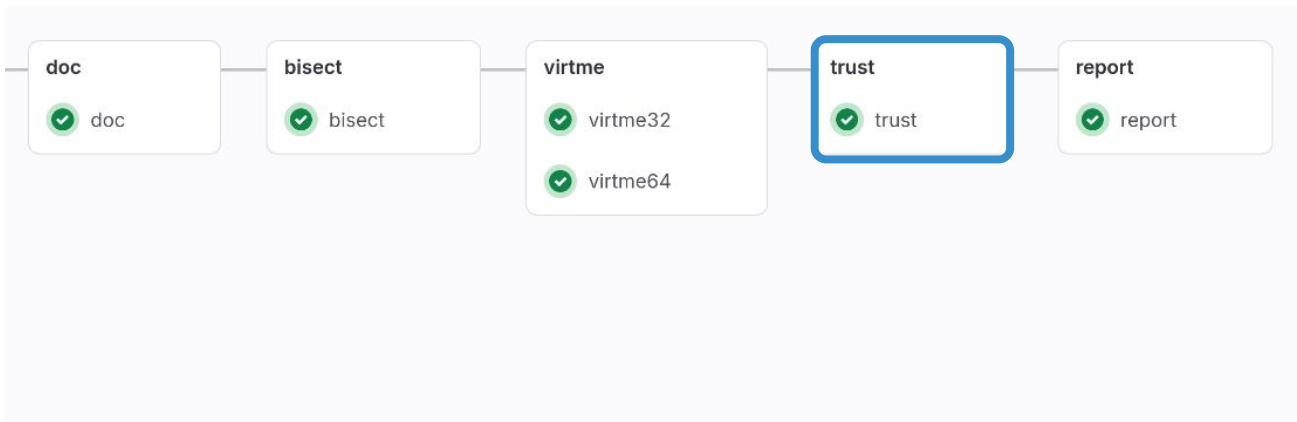
Passed media-sync created pipeline for commit 24147897 1 week ago, finished 1 week ago

For master

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72

Group jobs by Stage Job dependencies





linux-media / media-staging / Pipelines / #1190886

Wait, there's more!

media: imon: Fix race getting ictx->lock

✓ Passed media-sync created pipeline for commit `24147897` 1 week ago, finished 1 week ago

For `master`

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72

Group jobs by Stage Job dependencies

doc

✓ doc

Trust testsuite

Validates that at least two trusted reviewers has signed-off or reviewed each patch. The list of trusted reviewers is at the `/committers.txt` file.



linux-media / media-staging / Pipelines / #1190886

Wait, there's more!

media: imon: Fix race getting ictx->lock

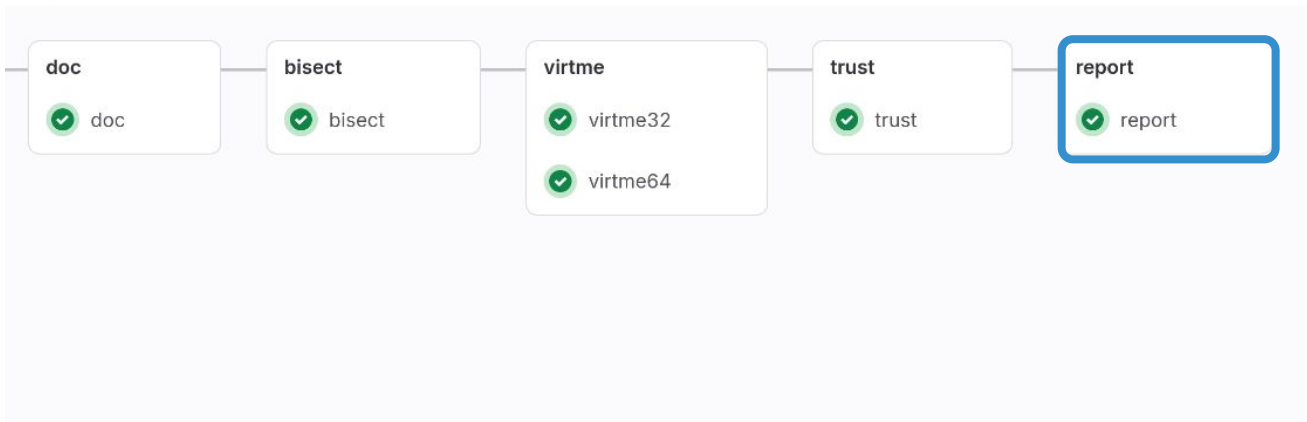
Passed media-sync created pipeline for commit 24147897 1 week ago, finished 1 week ago

For master

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72

Group jobs by Stage Job dependencies





linux-media / media-staging / Pipelines / #1190886

media: imon: Fix race getting ictx->lock

Passed media-sync c

For `master`

15 jobs 68 minutes

Pipeline Needs Job

Group jobs by Stage

doc

Passed doc

Wait, there's more!

Media-CI report

[Gitlab Link](#)

- **Job triggered by:** [project_22111_bot_4509888e9121619039279dbb1122ac29](#)

Branch Head:

- **Commit Author:** Ricardo Ribalda ribalda@chromium.org
- **Commit:** [24147897507cd3a7d63745d1518a638bf4132238](#)
- **Subject:** media: imon: Fix race getting ictx->lock



LINUX TV Patchwork Linux Media kernel patches ☰

Show patches with: State = Action Required

Results submitted to patchwork

| Patch | Series | A/C/I/F/R/T | S/W/F | ▲ Date | Submitter | Delegate |
|---|--------------------------------------|-------------|-------|------------|-----------------|-----------|
| [5/5] media: drivers/media/dvb-core: Refactor dvb_frontend_open | media: Fix some cocci locks warnings | ----- | 71- | 2024-05-06 | Ricardo Ribalda | |
| [4/5] media: go7007: Refactor Adlink PCI-MPG24 i2c mutex | media: Fix some cocci locks warnings | ----- | 71- | 2024-05-06 | Ricardo Ribalda | |
| [3/5] media: dvb-frontends/stv090x: Refactor tuner i2c lock | media: Fix some cocci locks warnings | ----- | 71- | 2024-05-06 | Ricardo Ribalda | |
| [2/5] media: imon: Fix race getting ictx->lock | media: Fix some cocci locks warnings | -- 1 -- | 71- | 2024-05-06 | Ricardo Ribalda | seanyoung |
| [1/5] media: ivtv: Factor out schedule functions | media: Fix some cocci locks warnings | ----- | 71- | 2024-05-06 | Ricardo Ribalda | |



LINUX TV Patchwork Linux Media kernel patches

[2/5] media: imon: Fix race condition in try_lock

Message ID: 20240506-cocci-locks-v1
 State: New
 Delegated to: Sean Young
 Headers: [show](#)
 Series: [media: Fix some cocci locks warnings](#) | [expand](#)

Results submitted to patchwork

Checks

| Context | Check | Description |
|--------------------------|---------|----------------------|
| mediaci/HTML_report | success | Link |
| mediaci/report | success | Link |
| mediaci/bisect | success | Link |
| mediaci/doc | success | Link |
| mediaci/build | success | Link |
| mediaci/static-upstreams | success | Link |
| mediaci/abi | success | Link |
| mediaci/checkpatch | warning | Link |



LINUX TV Patchwork Linux Media kernel patches

[2/5] media: imon: Fix race getting ictx->lock

Message ID: 20240506-cocci-locks-v1
 State: New
 Delegated to: Sean Young
 Headers: [show](#)
 Series: [media: Fix some cocci locks](#)

Checks

| Context | Check | Description |
|--------------------------|---------|----------------------|
| mediaci/HTML_report | success | Link |
| mediaci/report | success | Link |
| mediaci/bisect | success | Link |
| mediaci/doc | success | Link |
| mediaci/build | success | Link |
| mediaci/static-upstreams | success | Link |
| mediaci/abi | success | Link |
| mediaci/checkpatch | warning | Link |

Which will be the entrypoint for those reports

Media-CI report

[Gitlab Link](#)

- Job triggered by: [project_22111_bot_4509888e9121619039279dbb1122ac29](#)

Branch Head:

- Commit Author: Ricardo Ribalda ribalda@chromium.org
- Commit: [24147897507cd3a7d63745d1518a638bf4132238](#)
- Subject: media: imon: Fix race getting ictx->lock

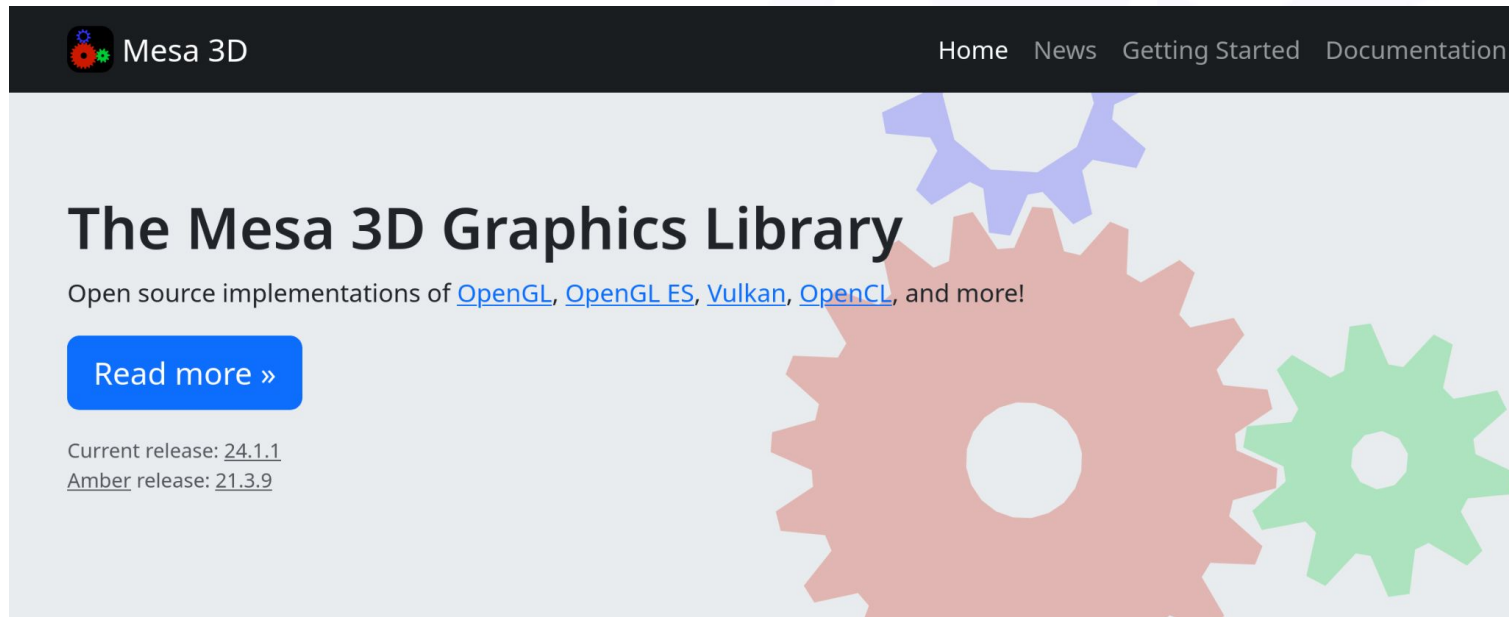


linux-media / media-ci / Repository

```
21 stages:
22   - prep
23   - lint
24   - docker
25   - integration
26   - deploy
27
28 # Do not trigger CI for unchanged branches
29 workflow:
30   rules:
31     - if: $CI_COMMIT_BRANCH == $CI_DEFAULT_BRANCH
32       when: always
33     - if: $CI_COMMIT_BRANCH
34       changes:
35         paths:
36           - '*'
37           - '**/*'
38         compare_to: refs/heads/main
39       when: always
40
```

But used via pushes and patches,
not merge requests

Mesa3D



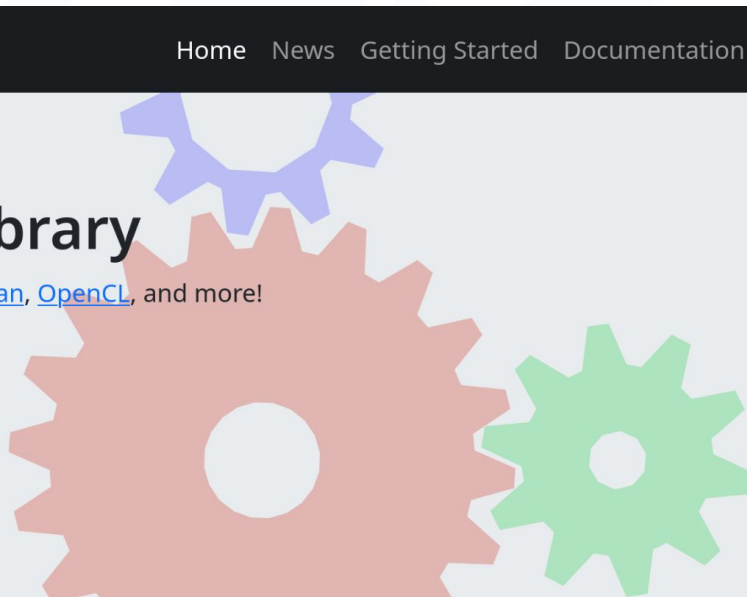
Mesa 3D Home News Getting Started Documentation

The Mesa 3D Graphics Library

Open source implementations of [OpenGL](#), [OpenGL ES](#), [Vulkan](#), [OpenCL](#), and more!

[Read more »](#)

Current release: [24.1.1](#)
Amber release: [21.3.9](#)



Featured APIs ∨

Supported Drivers ∨

Mesa / mesa / Merge requests

Open 1,203 Merged 25,405 Closed 3,057 All 29,665

Developed fully on GitLab

Search or filter results... Updated date

ci: run_n_monitor, collect and summarize
!29419 · created 2 weeks ago by Sergi Blanch Torné
CI Merged 4 updated 40 minutes ago

khronos-update: Add ANDROID guards to vk_android_native_buffer.h
!29621 · created 6 days ago by Konstantin Seurer
maintainer-scripts Merged 5 Approved updated 1 hour ago

radv: use BDA in the DGC prepare shader
!29605 · created 6 days ago by Samuel Pitoiset
RADV Merged 3 updated 1 hour ago

radv: fix incorrect buffer_list advance for multi-planar descriptors
!28816 · created 1 month ago by Samuel Pitoiset
RADV Merged 10 updated 2 hours ago

radeonsi: Fix si_compute_clear_render_target with 422 subsampled formats
!29598 · created 6 days ago by David Rosca
radeonsi Merged 3 updated 5 hours ago

Mesa / mesa / Merge requests

Open 1,203 **Merged 25,405** Closed 3,057 All 29,665

Wait a moment....

| Search or filter results... | Updated date |
|---|---|
| ci: run_n_monitor, collect and summarize !29419 · created 2 weeks ago by Sergi Blanch Torné CI | Merged 4 ✓ updated 40 minutes ago |
| khronos-update: Add ANDROID guards to vk_android_native_buffer.h !29621 · created 6 days ago by Konstantin Seurer maintainer-scripts | Merged 5 ✓ Approved ✓ updated 1 hour ago |
| radv: use BDA in the DGC prepare shader !29605 · created 6 days ago by Samuel Pitoiset RADV | Merged 3 ✓ updated 1 hour ago |
| radv: fix incorrect buffer_list advance for multi-planar descriptors !28816 · created 1 month ago by Samuel Pitoiset RADV | Merged 10 ✓ updated 2 hours ago |
| radeonsi: Fix si_compute_clear_render_target with 422 subsampled formats !29598 · created 6 days ago by David Rosca radeonsi | Merged 3 ✓ updated 5 hours ago |

Merged 25,405

Whaaaaaa?....

ci: run_n_monitor, collect and summarize

!29419 · created 2 weeks ago by Sergi Blanch Torné



Merged  4 

updated 40 minutes ago

khronos-update: Add ANDROID guards to vk_android_native_buffer.h

!29621 · created 6 days ago by Konstantin Seurer

maintainer-scripts

Merged  5  Approved 

updated 1 hour ago

radv: use BDA in the DGC prepare shader

!29605 · created 6 days ago by Samuel Pitoiset

RADV

Merged  3 

updated 1 hour ago

radv: fix incorrect buffer_list advance for multi-planar descriptors

!28816 · created 1 month ago by Samuel Pitoiset

RADV

Merged  10 

updated 2 hours ago

radeonsi: Fix si_compute_clear_render_target with 422 subsampled formats

!29598 · created 6 days ago by David Rosca

radeonsi

Merged  3 

updated 5 hours ago

One example

Fix compositor alpha-blending with EGL on X11

Code ▾

Robert Mader requested to merge [rmader/mesa:egl-transpar...](#) into [main](#) 3 years ago

2 unresolved threads ^ ▾ ⋮

Add a to do

⏪ Expand

Overview

159

Commits

5

Pipelines

81

Changes

8

Why?

Because an application using **EGL on the X11** platform currently **cannot request alpha-blended config/visuals**.

This impacts multiple apps, but most notably everything based on **GTK** toolkit and **Firefox browser**. Applications usually resolve situations in three ways:

- staying on **GLX instead of leveraging EGL**
- **giving up** on alpha-blended behavior under X11
- **querying through old GLX**, which is a valid thing to do, but introduces dependency on technology which gets disabled and may be removed at some point

One example

Fix compositor alpha-blending with EGL on X11

Code ▾



Merged Robert Mader requested to merge [rmader/mesa:egl-transpar...](#) into [main](#) 3 years ago

2 unresolved threads ^ ▾ ⋮

Add a to do

⏪ Expand

Overview 159

Commits 5

Pipelines 81

Changes 8

Why?

Because an application using **EGL on the X11** platform currently **cannot request alpha-blended config/visuals**.

This impacts multiple apps, but most notably everything based on **GTK** toolkit and **Firefox browser**. Applications usually resolve situations in three ways:

- staying on **GLX instead of leveraging EGL**
- **giving up** on alpha-blended behavior under X11
- **querying through old GLX**, which is a valid thing to do, but introduces dependency on technology which gets disabled and may be removed at some point

One example

Fix compositor alpha-blending with EGL on X11

Code ▾



Merged

Robert Mader requested to merge [rmader/ mesa:egl-transpar...](#) into [main](#) 3 years ago

◀ Expand

Overview 159

changes 8

Because an application using **EGL on the X11** platform currently **cannot request alpha-blended config/visuals**.

This impacts multiple apps, but most notably everything based on **GTK** toolkit and **Firefox browser**. Applications usually resolve situations in three ways:

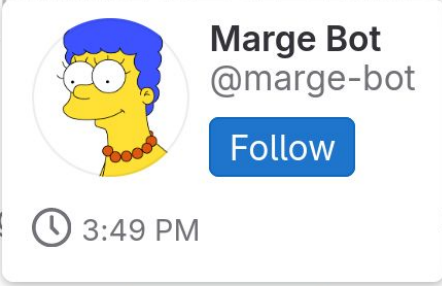
- staying on **GLX** instead of leveraging **EGL**
- **giving up** on alpha-blended behavior under X11
- **querying through** old **GLX**, which is a valid thing to do, but introduces dependency on technology which gets disabled and may be removed at some point

Tended to by Marge Bot

• David Heidelberg added 51 commits 1

- [3fb88e40...9f42a346](#) - 46 commits from branch mesa:main
- [5888db2b](#) - egl: Implement EGL_EXT_config_select_group
- [608cbbbed](#) - egl/x11

✓ Toggle commit list



Marge Bot
@marge-bot
Follow

3:49 PM ago

• David Heidelberg changed

• David Heidelberg assigned to @marge-bot and unassigned @rmader 1 month ago

• David Heidelberg mentioned in commit [rmader/mesa@3736c999](#) 1 month ago

Tended to by Marge Bot

- **Marge Bot** added 6 commits 1 month ago
 - [8b6b327d](#) - 1 commit from branch `mesa:main`
 - [0d904156](#) - egl: Implement EGL_EXT_config_select_group
 - [3736c999](#) - egl/x11: Move RGBA visuals in the second config selection group

✓ [Toggle commit list](#)



Marge Bot merged 1 month ago

Tended to by Marge Bot

 Merged by  [Marge Bot](#) 1 month ago

Merge details

- Changes merged into main with [74ea0d00](#).
- Deleted the source branch.
- Closed [#149 \(closed\)](#) and [#5494 \(closed\)](#)

One example

Fix compositor alpha-blending with EGL on X11

Code ▾

Robert Mader requested to merge [rmader/mesa:egl-transpar...](#) into [main](#) 3 years ago

2 unresolved threads ^ ▾ ⋮

Add a to do

⏪ Expand

Overview 159

Commits 5

Pipelines 81

Changes 8

Why?

Because an application using **EGL on the X11** platform currently **cannot request alpha-blended config/visuals**.

This impacts multiple apps, but most notably everything based on **GTK** toolkit and **Firefox browser**. Applications usually resolve situations in three ways:

- staying on **GLX instead of leveraging EGL**
- **giving up** on alpha-blended behavior under X11
- **querying through old GLX**, which is a valid thing to do, but introduces dependency on technology which gets disabled and may be removed at some point

One example

Fix compositor alpha-blending with EGL on X11

Code ▾



Merged

to main 3 years ago

2 unreso

Overview

Pipelines 81

◀ Expand

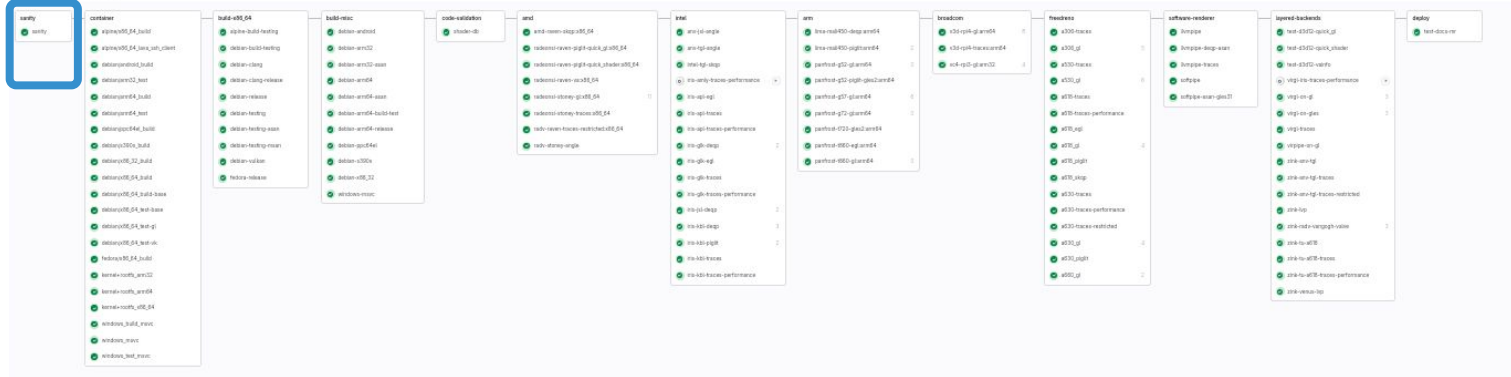
Why?

Because an application using **EGL on the X11** platform currently **cannot request alpha-blended config/visuals**.

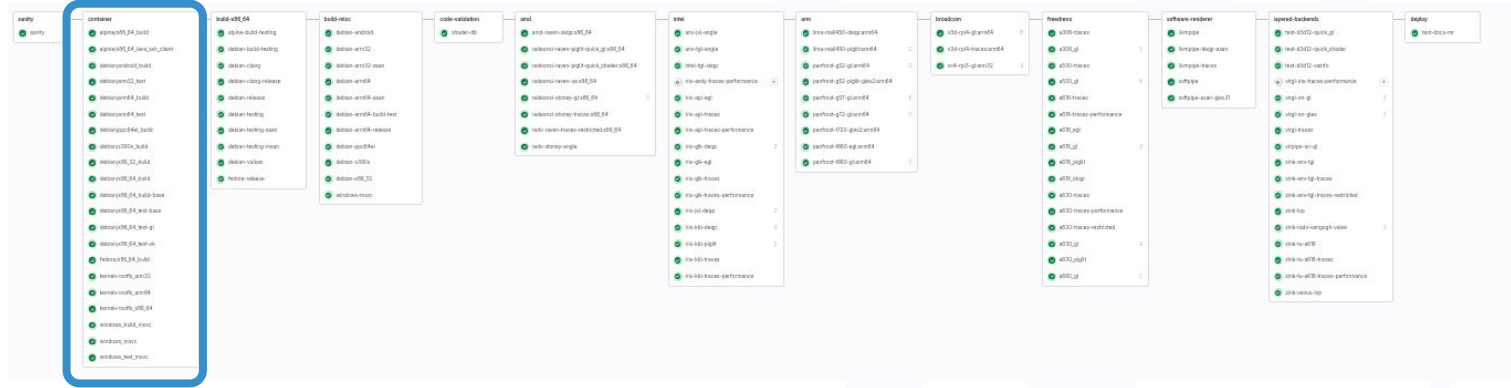
This impacts multiple apps, but most notably everything based on **GTK** toolkit and **Firefox browser**. Applications usually resolve situations in three ways:

- staying on **GLX instead of leveraging EGL**
- **giving up** on alpha-blended behavior under X11
- **querying through old GLX**, which is a valid thing to do, but introduces dependency on technology which gets disabled and may be removed at some point

Check if pipeline can run



Prepare builders



Publish results

The screenshot displays a GitLab CI pipeline dashboard for the 'mesa/mesa' project. The pipeline is organized into several stages, each containing multiple jobs. The 'publish' stage is highlighted with a blue box, indicating it is the current focus. The jobs are represented by green circles with a checkmark, signifying successful completion. The stages and their respective jobs are as follows:

- sanity**: 1 job (sanity)
- container**: 15 jobs (mesa04_build, mesa04_base, mesa04_test, mesa04_release, mesa04_deploy, mesa04_validate, mesa04_publish, mesa04_archive, mesa04_cleanup, mesa04_finalize, mesa04_notify, mesa04_report, mesa04_summary, mesa04_archive)
- build-x86_64**: 10 jobs (mesa04_build, mesa04_base, mesa04_test, mesa04_release, mesa04_deploy, mesa04_validate, mesa04_publish, mesa04_archive, mesa04_cleanup, mesa04_finalize)
- build-misc**: 10 jobs (mesa04_build, mesa04_base, mesa04_test, mesa04_release, mesa04_deploy, mesa04_validate, mesa04_publish, mesa04_archive, mesa04_cleanup, mesa04_finalize)
- code-validation**: 1 job (code-validation)
- amd**: 10 jobs (mesa04_build, mesa04_base, mesa04_test, mesa04_release, mesa04_deploy, mesa04_validate, mesa04_publish, mesa04_archive, mesa04_cleanup, mesa04_finalize)
- arm**: 10 jobs (mesa04_build, mesa04_base, mesa04_test, mesa04_release, mesa04_deploy, mesa04_validate, mesa04_publish, mesa04_archive, mesa04_cleanup, mesa04_finalize)
- broadcom**: 10 jobs (mesa04_build, mesa04_base, mesa04_test, mesa04_release, mesa04_deploy, mesa04_validate, mesa04_publish, mesa04_archive, mesa04_cleanup, mesa04_finalize)
- freedesktop**: 10 jobs (mesa04_build, mesa04_base, mesa04_test, mesa04_release, mesa04_deploy, mesa04_validate, mesa04_publish, mesa04_archive, mesa04_cleanup, mesa04_finalize)
- software-renderer**: 10 jobs (mesa04_build, mesa04_base, mesa04_test, mesa04_release, mesa04_deploy, mesa04_validate, mesa04_publish, mesa04_archive, mesa04_cleanup, mesa04_finalize)
- legacy-backends**: 10 jobs (mesa04_build, mesa04_base, mesa04_test, mesa04_release, mesa04_deploy, mesa04_validate, mesa04_publish, mesa04_archive, mesa04_cleanup, mesa04_finalize)
- publish**: 1 job (publish)

Managing CI Across Multiple Farms for GPU Testing

Managing continuous integration (CI) for a large project can be challenging, but it becomes even more complicated when dealing with multiple diverse farms and various devices running on different configurations.

In this talk, we will discuss the challenges encountered while working on Mesa3D CI infrastructure, and highlight the tasks that may appear simple but require significant effort when working with mixed farms and devices.

We will cover topics such as ensuring best CI performance over time with an increasing number of jobs and devices, maintaining the reliability and stability of the devices, and the importance of collaboration when working on large projects. We will also emphasize the benefits that an efficient CI system can bring to the developers.

Speakers



David Heidelberg

I help projects integrate, optimize performance, and embrace the best OSS practices., Independent

I fell in love with Linux at young age and since then I've been diving in it and enjoying various fields from developing a Linux kernel up to managing front-end application development.



Erico Nunes

Red Hat

[Check out the talk for details](#)

Managing CI Across Multiple Farms for GPU Testing

David Heidelberg
Contractor @ Collabora

Erico Nunes
Red Hat

[Check out the talk for details](#)



DEVCONF.cz

open source community conference

June 16-18, 2023
Brno, Czech Republic

0:01 / 34:55



DRM

**freedesktop.org**[dri/](#) DRM

Edit

Page History

Repo Info

Direct Rendering Manager (DRM)

The DRM is a kernel module that gives direct hardware access to DRI clients.

This module deals with DMA, AGP memory management, resource locking, and secure hardware access. In order to support multiple, simultaneous 3D applications the 3D graphics hardware must be treated as a shared resource. Locking is required to provide mutual exclusion. DMA transfers and the AGP interface are used to send buffers of graphics commands to the hardware. Finally, there must be security to prevent clients from escalating privilege using the graphics hardware.

Where does the DRM reside?

Since internal Linux kernel interfaces and data structures may be changed at any time, DRI kernel modules must be specially compiled for a particular kernel version. The DRI kernel modules reside in the `/lib/modules/.../kernel/drivers/gpu/drm` directory. (The kernel modules were in the `/lib/modules/.../kernel/drivers/char/drm` directory before version 2.6.26.) Normally, the X server automatically loads whatever DRI kernel modules are needed.

For each 3D hardware driver there is a kernel module, each of which requires the generic DRM support code.

The source code is at [git://anongit.freedesktop.org/git/ mesa/drm](https://anongit.freedesktop.org/git/ mesa/drm)



Home > News & Blog > Blog

DRM-CI: A GitLab-CI pipeline for Linux kernel testing



Helen Koike
February 08, 2024



Reading time: 5 minutes

Continuing our [Kernel Integration series](#), we're excited to introduce DRM-CI, a groundbreaking solution that enables developers to test their graphics subsystem patches across numerous devices within the community's shared infrastructure. Released with Linux kernel 6.7, DRM-CI is a GitLab-CI pipeline that runs on the [Freedesktop](#) infrastructure. This setup allows for efficient kernel compilation and dispatches tests across multiple devices available in various community labs.

[Home](#) > [News & Blog](#) > [Blog](#)

DRM-CI: A GitLab-CI pipeline for Linux kernel testing



Helen Koike
February 08, 2024



Reading time: 5 minutes

Continuing our [Kernel Integration series](#), we're excited to introduce DRM-CI, a groundbreaking solution that enables developers to test their graphics subsystem patches across numerous devices within the community's shared infrastructure. Released with Linux kernel 6.7, DRM-CI is a GitLab-CI pipeline that runs on the [Freedesktop](#) infrastructure. This setup allows for efficient kernel compilation and dispatches tests across multiple devices available in various community labs.



COLLABORA

DRM-CI is already upstream

Home > News & Blog > Blog

DRM-CI: A GitLab-CI pipeline for Linux kernel testing



Helen Koike
February 08, 2024



Reading time: 5 minutes

Continuing our [Kernel Integration series](#), we're excited to introduce DRM-CI, a groundbreaking solution that enables development of DRM drivers on shared infrastructure. DRM-CI is available in various community labs.

Released with Linux kernel 6.7

shared
sktop
devices

Quickly Test Your Kernel with GitLab CI - Helen Koike, Collabora



Gitlab is being used by several big projects as a development platform, and now has even more value with its CI/CD feature, that allows not only pre-merge tests on MRs, but also allows developers to easily test their code before even submitting the patch on a MR. The question now is: can the kernel also benefit from this feature? In this talk we'll cover the experience we are having in the DRM subsystem where a Gitlab-CI test pipelines is configured and available for any developer to test their code on several different devices across several labs, but we'll also discuss how this can be made generic enough for other subsystems, without depending too much on a given infrastructure, the challenges involved, share ideas and collect feedback from the community.

Speakers



Helen Koike

Senior Software Engineer, Collabora

Helen Koike is a Senior Software Engineer at Collabora who has made significant contributions to various open-source projects. She began her journey into continuous integration (CI) while working on Mesa3D and has since expanded her expertise to upstream DRM/CI on the graphics subsystem which she currently maintains. Before CI, she also worked contributing specially with Debian and v4l2 kernel subsystem.



[Check out the talk for details](#)

What is DRM-CI

- **Original patch from Tomeu Vizoso**

What is DRM-CI

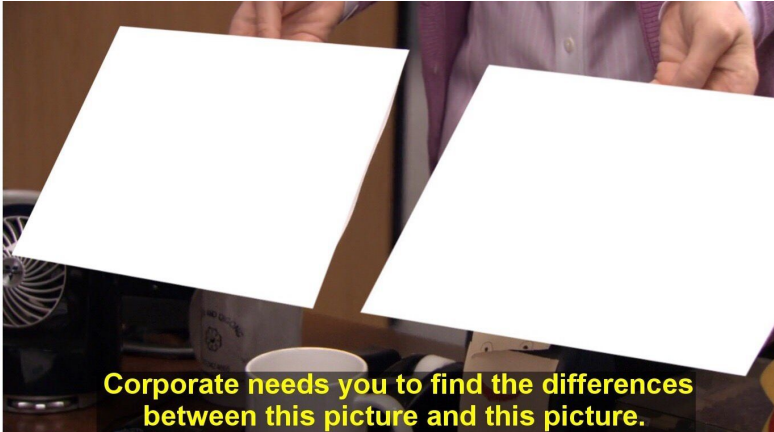
- Original patch from Tomeu Vizoso
- **Used mostly by maintainers to validate patches**

What is DRM-CI

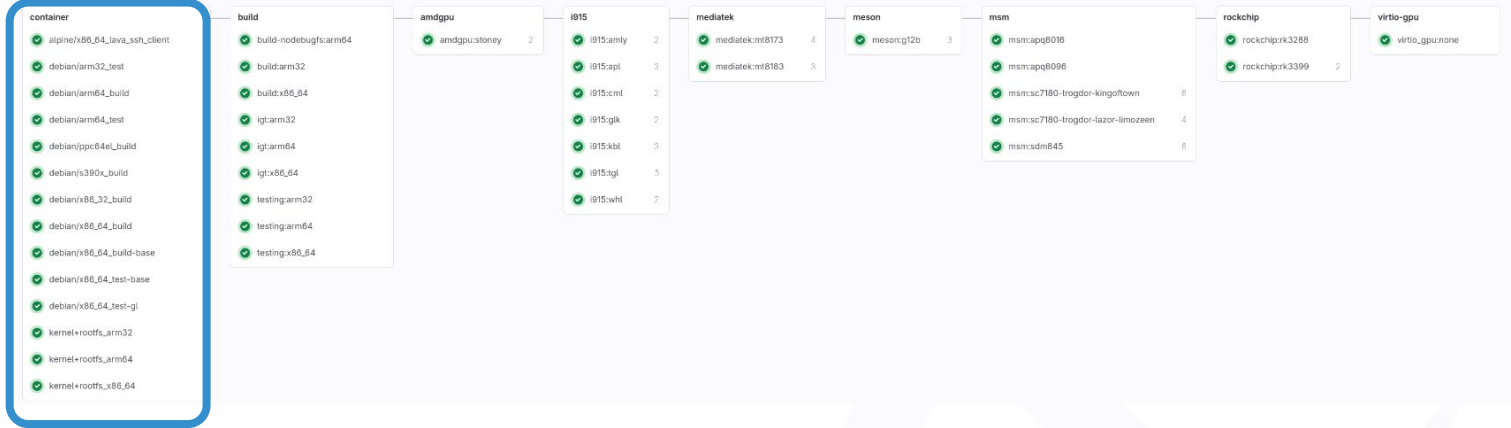
- Original patch from Tomeu Vizoso
- Used mostly by maintainers to validate patches
- **Derives from Mesa-CI project**

let's compare them

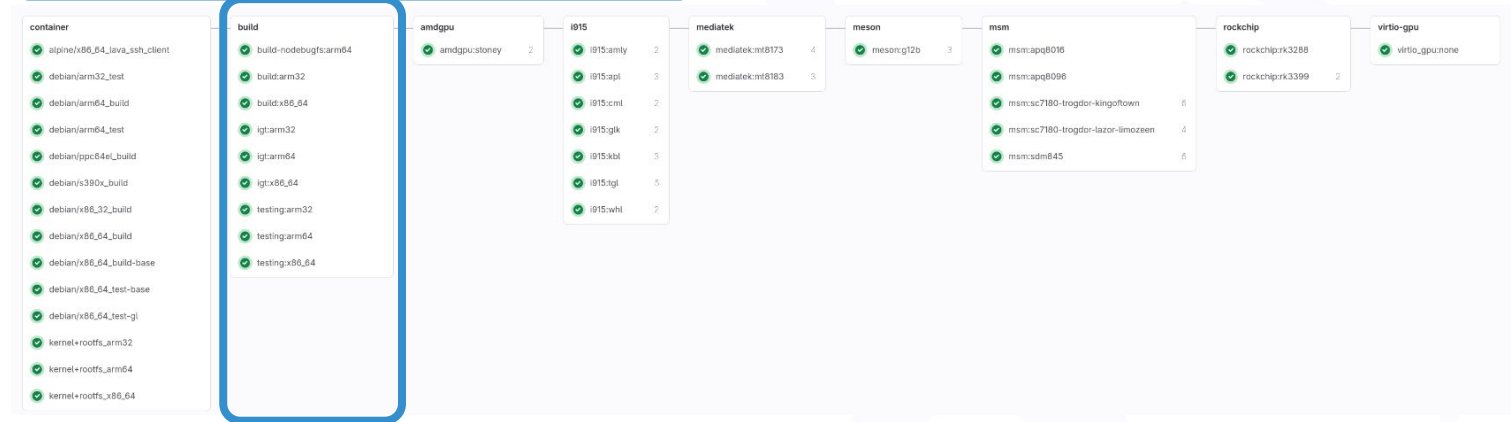
| container | build | amdgpu | i915 | mediatek | meson | msm | rockchip | virtio-gpu |
|--|---|---|---|---|--|--|---|---|
| <ul style="list-style-type: none">alpine/x86_64_java_ssh_clientdebian/arm32_testdebian/arm64_builddebian/arm64_testdebiangppc64el_builddebiang/s390x_builddebiang/x86_32_builddebiang/x86_64_builddebiang/x86_64_build-basedebiang/x86_64_test-basedebiang/x86_64_test-gikernel+rootfs_arm32kernel+rootfs_arm64kernel+rootfs_x86_64 | <ul style="list-style-type: none">build-nodebugfsarm64build:arm32build:x86_64igt:arm32igt:arm64igt:x86_64testing:arm32testing:arm64testing:x86_64 | <ul style="list-style-type: none">amdgpu:atoney 2 | <ul style="list-style-type: none">i915:amly 2i915:apt 3i915:cml 2i915:glk 2i915:skl 3i915:tgl 5i915:whl 2 | <ul style="list-style-type: none">mediatek:mt8173 4mediatek:mt8183 3 | <ul style="list-style-type: none">meson:gl2b 3 | <ul style="list-style-type: none">msm:ape0016msm:ape0086msm:sc7180-trogdor-kingoftown 6msm:sc7180-trogdor-lazor-limezeen 4msm:sdm845 6 | <ul style="list-style-type: none">rockchip:rk3288rockchip:rk3399 2 | <ul style="list-style-type: none">virtio-gpu:none |



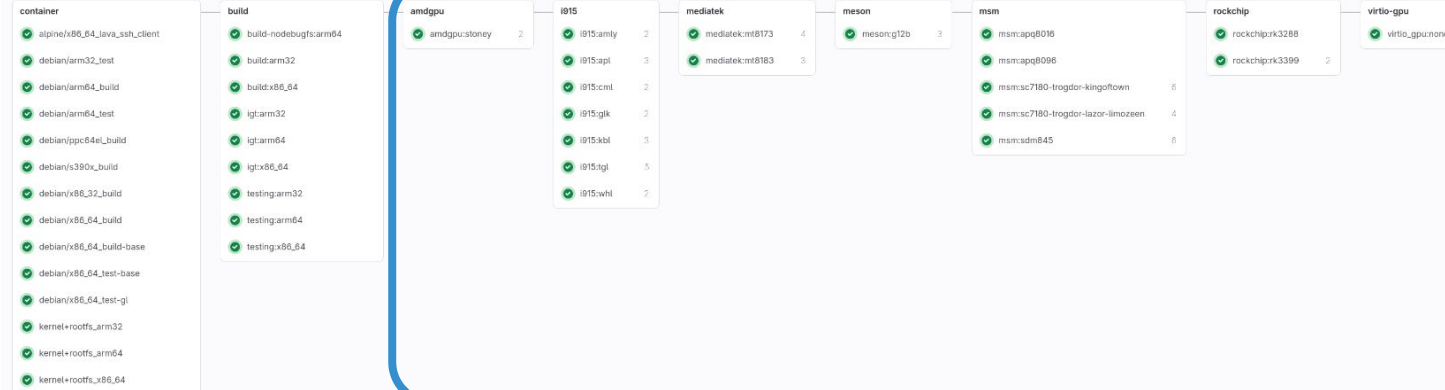
Prepare builders



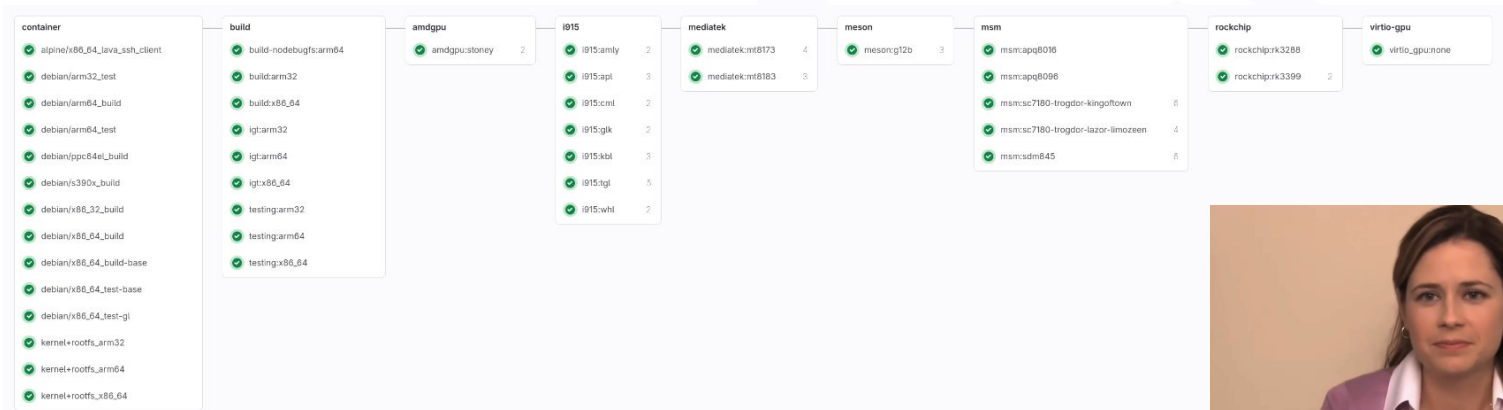
Build the kernel and test suites



Run tests in devices



They are the same picture





how to drm ci

All Images Videos News Maps More

Tools



collabora.com

<https://www.collabora.com> > blog > 2024/02/08 > drm-... ⋮

DRM-CI: A GitLab-CI pipeline for Linux kernel testing - Collabora

Feb 8, 2024 — Introducing **DRM-CI**, a solution that lets you test graphics subsystem patches across numerous devices.

People also ask ⋮

What is DRM CI? 

How do I enable CI? 

Feedback



The Linux Kernel Archives

<https://docs.kernel.org> > gpu > automated_testing ⋮

Automated testing of the DRM subsystem

For testing changes to the scripts in the **drm-ci** repo, change the `DRM_CI_PROJECT_PATH` and `DRM_CI_COMMIT_SHA` variables in `drivers/gpu/drm/ci/gitlab-ci.yml` to ...

Would you look at that



how to drm ci

All Images Videos News Maps More

Tools



collabora.com

<https://www.collabora.com> > blog > 2024/02/08 > drm-... ⋮

DRM-CI: A GitLab-CI pipeline for Linux kernel testing - Collabora

Feb 8, 2024 — Introducing **DRM-CI**, a solution that lets you test graphics subsystem patches across numerous devices.

People also ask ⋮

What is DRM CI?



How do I enable CI?



Feedback



The Linux Kernel Archives

<https://docs.kernel.org> > gpu > automated_testing ⋮

Automated testing of the DRM subsystem

For testing changes to the scripts in the **drm-ci** repo, change the `DRM_CI_PROJECT_PATH` and `DRM_CI_COMMIT_SHA` variables in `drivers/gpu/drm/ci/gitlab-ci.yml` to ...

It's already documented

next-20240613

Quick search

Contents

[Development process](#)

[Submitting patches](#)

[Code of conduct](#)

[Maintainer handbook](#)

[All development-process docs](#)

[Core API](#)

[Driver APIs](#)

Subsystems

[Core subsystems](#)

Human interfaces

[Input Documentation](#)

[Human Interface Devices \(HID\)](#)

[Sound Subsystem Documentation](#)

GPU Driver Developer's Guide

[Frame Buffer](#)

[LEDs](#)

[Networking interfaces](#)

[Storage interfaces](#)

[Other subsystems](#)

[Locking](#)

```
# Bug Report: $LORE_OR_PATCHWORK_
# Board Name: broken-board.dtb
# Linux Version: 6.6-rc1
# IGT Version: 1.28-gd2af13d9f
# Failure Rate: 100
flaky-test
```

`drivers/gpu/drm/ci/${DRIVER_NAME}-${HW_REVISION}-skips.txt`

Lists the tests that won't be run for a given driver on a specific hardware revision. These are usually tests that interfere with the running of the test list due to hanging the machine, causing OOM, taking too long, etc.

How to enable automated testing on your tree

1. Create a Linux tree in <https://gitlab.freedesktop.org/> if you don't have one yet
2. In your kernel repo's configuration (eg. https://gitlab.freedesktop.org/janedoe/linux/-/settings/ci_cd), change the CI/CD configuration file from `.gitlab-ci.yml` to `drivers/gpu/drm/ci/gitlab-ci.yml`.
3. Request to be added to the `drm/ci-ok` group so that your user has the necessary privileges to run the CI on <https://gitlab.freedesktop.org/drm/ci-ok>
4. Next time you push to this repository, you will see a CI pipeline being created (eg. <https://gitlab.freedesktop.org/janedoe/linux/-/pipelines>)
5. The various jobs will be run and when the pipeline is finished, all jobs should be green unless a regression has been found.

How to update test expectations

It's already documented

next-20240613

Quick search

```
# Bug Report: $LORE_OR_PATCHWORK_
# Board Name: broken-board.dtb
# Linux Version: 6.6-rc1
```

How to enable automated testing on your tree

1. Create a Linux tree in <https://gitlab.freedesktop.org/> if you don't have one yet
2. In your kernel repo's configuration (eg. https://gitlab.freedesktop.org/janedoe/linux/-/settings/ci_cd), change the CI/CD configuration file from `.gitlab-ci.yml` to `drivers/gpu/drm/ci/gitlab-ci.yml`.
3. Request to be added to the `drm/ci-ok` group so that your user has the necessary privileges to run the CI on <https://gitlab.freedesktop.org/drm/ci-ok>
4. Next time you push to this repository, you will see a CI pipeline being created (eg. <https://gitlab.freedesktop.org/janedoe/linux/-/pipelines>)
5. The various jobs will be run and when the pipeline is finished, all jobs should be green unless a regression has been found.

[Storage interfaces](#)

[Other subsystems](#)

[Locking](#)

5. The various jobs will be run and when the pipeline is finished, all jobs should be green unless a regression has been found.

[How to update test expectations](#)

1, 2, 3, Go!

next-20240613

Quick search

```
# Bug Report: $LORE_OR_PATCHWORK_  
# Board Name: broken-board.dtb  
# Linux Version: 6.6-rc1
```

How to enable automated testing on your tree

1. Create a Linux tree in <https://gitlab.freedesktop.org/> if you don't have one yet
2. In your kernel repo's configuration (eg. https://gitlab.freedesktop.org/janedoe/linux/-/settings/ci_cd), change the CI/CD configuration file from `.gitlab-ci.yml` to `drivers/gpu/drm/ci/gitlab-ci.yml`.
3. Request to be added to the `drm/ci-ok` group so that your user has the necessary privileges to run the CI on <https://gitlab.freedesktop.org/drm/ci-ok>
4. Next time you push to this repository, you will see a CI pipeline being created (eg. <https://gitlab.freedesktop.org/janedoe/linux/-/pipelines>)
5. The various jobs will be run and when the pipeline is finished, all jobs should be green unless a regression has been found.

[Storage interfaces](#)

[Other subsystems](#)

[Locking](#)

5. The various jobs will be run and when the pipeline is finished, all jobs should be green unless a regression has been found.

[How to update test expectations](#)

< → ↻ gitlab.freedesktop.org/drm/kernel

drm / kernel

1. Plant a tree in gitlab.freedesktop.org

K kernel

🔔 ☆ Star 3 🍴 Fork 8 ⋮

🔗 drm-next kernel

History Find file Code

Merge tag 'amd-drm-next-6.11-2024-06-07' of... ⋮

1ddaaa24

Dave Airlie authored 2 days ago

| Name | Last commit | Last update |
|---------------|--------------------------------|-------------|
| Documentation | Merge tag 'amd-drm-ne... | 2 days ago |
| LICENSES | LICENSES: Add the copy... | 1 year ago |
| arch | Merge tag 'x86-urgent-2... | 5 days ago |
| block | blk-throttle: Fix incorrect... | 1 week ago |
| certs | kbuild: use \$(src) instea... | 1 month ago |

Project information

Root DRM kernel tree, use this to create gitlab forks. Otherwise for subsystem maintainers only, issues/pr go to subtree repos.


- 🔗 1,280,921 Commits
- 🌿 2 Branches
- 🏷️ 386 Tags





- 📄 README
- 📄 LICENSE







gitlab.freedesktop.org/drm/kernel




drm / kernel

That could mean forking the DRM tree






K kernel 

  Star 3  Fork 8 

 drm-next  kernel  History  Find file  Code 


 Merge tag 'amd-drm-next-6.11-2024-06-07' of...  1ddaaa24 


Dave Airlie authored 2 days ago


| Name | Last commit | Last update |
|---|--------------------------------|-------------|
|  Documentation | Merge tag 'amd-drm-ne... | 2 days ago |
|  LICENSES | LICENSES: Add the copy... | 1 year ago |
|  arch | Merge tag 'x86-urgent-2... | 5 days ago |
|  block | blk-throttle: Fix incorrect... | 1 week ago |
|  certs | kbuild: use \$(src) instea... | 1 month ago |


Project information


Root DRM kernel tree, use this to create gitlab forks. Otherwise for subsystem maintainers only, issues/pr go to subtree repos.

 1,280,921 Commits

 2 Branches

 386 Tags

 README

 LICENSE

Tales Aparecida / kernel

Your tree has been planted

The project was successfully forked.

K kernel

🔔 0 ☆ Star 0 🍴 Fork 0

🔗 drm-next kernel + History Find file Edit Code

Merge tag 'amd-drm-next-6.11-2024-06-07' of...
Dave Airlie authored 2 days ago
1ddaaa24

Forked from [drm / kernel](#)
Up to date with the upstream repository.

README

Linux kernel
=====

There are several guides for kernel developers and users. These guide be rendered in a number of formats, like HTML and PDF. Please read [Documentation/admin-guide/README.rst](#) first.

Project information

Fork from
<https://gitlab.freedesktop.org/drm/kernel>

📄 1,280,921 Commits
🌿 1 Branch
🏷️ 0 Tags
💾 144.3 MiB Project Storage

📄 README
🔑 LICENSE
+ Add CHANGELOG
+ Add CONTRIBUTING
+ Add Kubernetes cluster
+ Set up CI/CD

Tales Aparecida / kernel

2. Enable the CI file

The project was successfully forked.

K kernel

🔔 Star 0 🍴 Fork 0

🔗 drm-next kernel / + History Find file Edit Code

Merge tag 'amd-drm-next-6.11-2024-06-07' of...
Dave Airlie authored 2 days ago
1ddaaa24

Forked from [drm / kernel](#)
Up to date with the upstream repository.

README

```
Linux kernel
=====

There are several guides for kernel developers and users. These guide
be rendered in a number of formats, like HTML and PDF. Please read
Documentation/admin-guide/README.rst first.
```

Project information

Fork from
<https://gitlab.freedesktop.org/drm/kernel>

- 📄 1,280,921 Commits
- 🔗 1 Branch
- 🔗 0 Tags
- 📄 144.3 MiB Project Storage

- 📄 README
- 🔗 LICENSE
- + Add CHANGELOG
- + Add CONTRIBUTING
- + Add Kubernetes cluster
- + Set up CI/CD

The screenshot shows the GitLab web interface for a project named 'kernel'. A blue callout box in the top right corner contains the text '2. Enable the CI file'. The left sidebar is open to the 'Settings' page, with the 'CI/CD' option highlighted. The main content area shows project information such as 'Fork from https://gitlab.freedesktop.org/drm/kernel', '1,280,921 Commits', '1 Branch', and '0 Tags'. A 'Last update' table is visible below the project information.

2. Enable the CI file

Project information
Fork from
<https://gitlab.freedesktop.org/drm/kernel>

1,280,921 Commits
1 Branch
0 Tags
144.3 MiB Project Storage

README
LICENSE
[+ Add CHANGELOG](#)
[+ Add CONTRIBUTING](#)
[+ Enable Auto DevOps](#)
[+ Add Kubernetes cluster](#)
[+ Set up CI/CD](#)

| Last update | |
|-------------|--|
| 2 days ago | |
| 1 year ago | |
| 5 days ago | |
| 1 week ago | |
| 1 month ago | |

2. Enable the CI file

[Collapse](#)

General pipelines

Customize your pipeline configuration.

- Public pipelines**
Allow public access to pipelines and job details, including output logs and artifacts. [?](#)
- Auto-cancel redundant pipelines**
Pipelines for new changes cause older pending or running pipelines on the same branch to be cancelled. [?](#)
- Prevent outdated deployment jobs**
When a deployment job is successful, prevent older deployment jobs that are still pending. [?](#)
 - Allow job retries for rollback deployments**
Allow job retries even if the deployment job is outdated. [?](#)
- Use separate caches for protected branches**
Unprotected branches will not have access to the cache from protected branches. [?](#)

CI/CD configuration file

The name of the CI/CD configuration file. A path relative to the root directory is optional (for example `my/path/.myfile.yml`).

[?](#)

Setting it to "drivers/gpu/drm/ci/gitlab-ci.yml"

General pipelines

Collapse

Customize your pipeline configuration.

- Public pipelines**
Allow public access to pipelines and job details, including output logs and artifacts. [?](#)
- Auto-cancel redundant pipelines**
Pipelines for new changes cause older pending or running pipelines on the same branch to be cancelled. [?](#)
- Prevent outdated deployment jobs**
When a deployment job is successful, prevent older deployment jobs that are still pending. [?](#)
 - Allow job retries for rollback deployments**
Allow job retries even if the deployment job is outdated. [?](#)
- Use separate caches for protected branches**
Unprotected branches will not have access to the cache from protected branches. [?](#)

CI/CD configuration file

The name of the CI/CD configuration file. A path relative to the root directory is optional (for example `my/path/.myfile.yml`).

[?](#)

drm / CI-OK

C CI-OK

3. Request to be added to the drm/ci-ok group

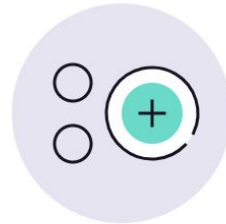
Subgroups and projects

Shared projects

Inactive

Search

Updated date



No subgroups or projects.

You do not have necessary permissions to create a subgroup or project in this group. Please contact an owner of this group to create a new subgroup or project.

drm / CI-OK

3 2 7

Search or go to...

projects Inactive

Search Updated date

Group

- CI-OK
- Pinned
- Issues 0
- Merge requests 0
- Manage
- Plan
- Code
- Deploy
- Operate

Activity

Members

Labels

3. Request to be added to the drm/ci-ok group











groups or projects.

permissions to create a subgroup or project in this owner of this group to create a new subgroup or project.

drm / CI-OK / Group members

Members 158 Groups 1

By sending an email to dri-devel@lists.freedesktop.org











| Account | Source | Max role | Expiration | Activity |
|--|---|----------|---|---|
|  Guilherme Gallo @gallo | Direct member by Benjamin Tissoires | Owner | Expiration date  | User created: Aug 13, 2021 Access granted: Oct 06, 2023 Last activity: Jun 13, 2024 |
|  Daniel Vetter @sima | drm by Daniel Stone | Owner | Expiration date  | User created: Mar 06, 2018 Access granted: Aug 28, 2018 Last activity: Jun 12, 2024 |
|  Daniel Stone @daniels | drm by Daniel Stone | Owner | Expiration date  | User created: Jan 11, 2018 Access granted: Feb 26, 2024 Last activity: Jun 13, 2024 |
|  Maxime Ripard @mripard | drm by Daniel Stone | Owner | Expiration date  | User created: Mar 06, 2018 Access granted: Feb 26, 2024 Last activity: Jun 13, 2024 |
|  Dave Airlie @airlied | drm by Daniel Stone | Owner | Expiration date  | User created: Mar 06, 2018 Access granted: Aug 28, 2018 Last activity: Jun 13, 2024 |

drm / CI-OK / Group members

Members 158 Groups 1

But first the community needs to trust you

Filter members Max role

| Account | Source | Max role | Expiration | Activity |
|--|---|----------|---|---|
|  Guilherme Gallo @gallo | Direct member by Benjamin Tissoires | Owner | Expiration date  | User created: Aug 13, 2021 Access granted: Oct 06, 2023 Last activity: Jun 13, 2024 |
|  Daniel Vetter @sima | drm by Daniel Stone | Owner | Expiration date  | User created: Mar 06, 2018 Access granted: Aug 28, 2018 Last activity: Jun 12, 2024 |
|  Daniel Stone @daniels | drm by Daniel Stone | Owner | Expiration date  | User created: Jan 11, 2018 Access granted: Feb 26, 2024 Last activity: Jun 13, 2024 |
|  Maxime Ripard @mripard | drm by Daniel Stone | Owner | Expiration date  | User created: Mar 06, 2018 Access granted: Feb 26, 2024 Last activity: Jun 13, 2024 |
|  Dave Airlie @airlied | drm by Daniel Stone | Owner | Expiration date  | User created: Mar 06, 2018 Access granted: Aug 28, 2018 Last activity: Jun 13, 2024 |

drm / CI-OK / Group members











Members 158 Groups 1

That might take some time

Filter members



Max role ↓

| Account | Source | Max role | Expiration | Activity |
|--|---|----------|---|---|
|  Guilherme Gallo @gallo | Direct member by Benjamin Tissoires | Owner | Expiration date  | User created: Aug 13, 2021 Access granted: Oct 06, 2023 Last activity: Jun 13, 2024 |
|  Daniel Vetter @sima | drm by Daniel Stone | Owner | Expiration date  | User created: Mar 06, 2018 Access granted: Aug 28, 2018 Last activity: Jun 12, 2024 |
|  Daniel Stone @daniels | drm by Daniel Stone | Owner | Expiration date  | User created: Jan 11, 2018 Access granted: Feb 26, 2024 Last activity: Jun 13, 2024 |
|  Maxime Ripard @mripard | drm by Daniel Stone | Owner | Expiration date  | User created: Mar 06, 2018 Access granted: Feb 26, 2024 Last activity: Jun 13, 2024 |
|  Dave Airlie @airlied | drm by Daniel Stone | Owner | Expiration date  | User created: Mar 06, 2018 Access granted: Aug 28, 2018 Last activity: Jun 13, 2024 |

Just push

gitlab.freedesktop.org/helen.fornazier/linux/-/pipelines?page=6&scope=all

Helen Mae Koike Fornazier / linux / Pipelines

Due to an influx of spam, we have had to impose restrictions on new accounts. Please see [this wiki page](#) for instructions on how to get full permissions. Sorry for the inconvenience.

All 404 Finished Branches Tags

Clear runner caches Run pipeline

Filter pipelines

Show Pipeline ID

| Status | Pipeline | Created by | Stages |
|-------------------------|---|------------|-------------------|
| Failed 11 months ago | NOT UPSTREAM: test configs #1003708 xfails-test ba8ac1eb | | ⏪ ⏩ ✓ ✗ ✗ ✓ ✓ ✗ |
| Failed 11 months ago | NOT UPSTREAM: add DEQP_FRACTION #1003662 xfails-test 41c9d3fe | | ⏪ ⏩ ✓ ✗ ✗ ✓ ✓ ✗ ✗ |
| Failed 11 months ago | update xfails #1003610 xfails-test 73f385f4 | | ⏪ ⏩ ✓ ✓ ✓ ✓ ✓ ✓ ✗ |

Just push

gitlab.freedesktop.org/helen.fornazier/linux/-/pipelines?page=6&scope=all

Helen Mae Koike Fornazier / linux / Pipelines

Due to an influx of spam, we have had to impose restrictions on new accounts. Please see [this wiki page](#) for instructions on how to get full permissions. Sorry for the inconvenience.

All 404 Finished Branches Tags

Clear runner caches Run pipeline

Filter pipelines

Show Pipeline ID

| Status | Pipeline | Created by | Stages |
|-------------------------|---|------------|-------------------|
| Failed 11 months ago | NOT UPSTREAM: test configs #1003708 xfails-test ba8ac1eb | | ⏪ ⏩ ✓ ✗ ✗ ✓ ✓ ✗ |
| Failed 11 months ago | NOT UPSTREAM: add DEQP_FRACTION #1003662 xfails-test 41c9d3fe | | ⏪ ⏩ ✓ ✗ ✗ ✓ ✓ ✗ ✗ |
| Failed 11 months ago | update xfails #1003610 xfails-test 73f385f4 | | ⏪ ⏩ ✓ ✓ ✓ ✓ ✓ ✓ ✗ |

Voilà!

Helen Mae Koike Fornazier / linux / Pipelines

Due to an influx of spam, we have had to impose restrictions on new accounts. Please see [this wiki page](#) for instructions on how to get full permissions. Sorry for the inconvenience.

All 404 Finished Branches Tags

Clear runner caches Run pipeline

Filter pipelines

Show Pipeline ID

| Status | Pipeline | Created by | Stages |
|-------------------------|---|------------|-----------------------------|
| Failed 11 months ago | NOT UPSTREAM: test configs #1003708 xfails-test ba8ac1eb | | ⏪ ⏩ ⏴ ⏵ ⏶ ⏷ ⏸ ⏹ ⏺ ⏻ ⏼ ⏽ ⏾ ⏿ |
| Failed 11 months ago | NOT UPSTREAM: add DEQP_FRACTION #1003662 xfails-test 41c9d3fe | | ⏪ ⏩ ⏴ ⏵ ⏶ ⏷ ⏸ ⏹ ⏺ ⏻ ⏼ ⏽ ⏾ ⏿ |
| Failed 11 months ago | update xfails #1003610 xfails-test 73f385f4 | | ⏪ ⏩ ⏴ ⏵ ⏶ ⏷ ⏸ ⏹ ⏺ ⏻ ⏼ ⏽ ⏾ ⏿ |

Voilà!

← → ↻ gitlab.freedesktop.org/helen.fornazier/linux/-/pipelines?page=6&scope=all

Helen Mae Koike Fornazier / linux / Pipelines

Due to an influx of spam, we have had to impose restrictions on new accounts. Please see [this wiki page](#) for instructions on how to get full permissions. Sorry for the inconvenience.

All 404 Finished Branches Tags

Clear runner caches Run pipeline

Filter pipelines

Show Pipeline ID

| Status | Pipeline | Created by | Stages |
|--------------------------------|--|------------|--------|
| Failed 11 months ago | NOT UPSTREAM: test configs #1003708 xfails-test ba8ac1eb | | |
| Failed 11 months ago | NOT UPSTREAM: add DEQP_FRACTION #1003662 xfails-test 41c9d3fe | | |
| Failed 11 months ago | update xfails #1003610 xfails-test 73f385f4 | | |

Voilà!

Due to an influx of spam, we have had to impose restrictions on new accounts. Please see [this wiki page](#) for instructions on how to get full permissions. Sorry for the inconvenience.

All 404 Finished Branches Tags

Filter pipelines Show Pipeline ID ▾

| Status | Pipeline | Created by | Stages |
|-------------------------|--|------------|--------|
| Failed 11 months ago | NOT UPSTREAM: test configs #1003708 xfails-test ba8ac1eb | | |
| Failed 11 months ago | NOT UPSTREAM: add DEQP_FRACTION #1003662 xfails-test 41c9d3fe | | |
| Failed 11 months ago | update xfails #1003610 xfails-test 73f385f4 | | |

DRM-CI limitations

- Specific to DRM subsystem



DRM-CI limitations

- Specific to DRM subsystem
- **Only works on Freedesktop GitLab instance**

DRM-CI limitations

- Specific to DRM subsystem
- Only works on Freedesktop GitLab instance
- **Runners are shared across all projects on Freedektop**

DRM-CI limitations

- Specific to DRM subsystem
- Only works on Freedesktop GitLab instance
- Runners are shared across all projects on Freedektop
- **Mesa-CI uses the same devices and it is more time critical**

DRM-CI limitations

- Specific to DRM subsystem
- Only works on Freedesktop GitLab instance
- Runners are shared across all projects on Freedektop
- Mesa-CI uses the same devices and it is more time critical
 - **DRM-CI runs with lower priority**

DRM-CI limitations

- Specific to DRM subsystem
- Only works on Freedesktop GitLab instance
- Runners are shared across all projects on Freedektop
- Mesa-CI uses the same devices and it is more time critical
 - DRM-CI runs with lower priority

Proposed new solution: KCI-GITLAB!

Mainline

What is KCI-GITLAB

- Patchset submitted on Feb 28th 2024

What is KCI-GITLAB

- Patchset submitted on Feb 28th 2024
- **Developed together with the KernelCI community**

What is KCI-GITLAB

CI for everyone

- Patchset submitted on Feb 28th 2024
- Developed together with the KernelCI community
- **More generic solution (common base)**

What is KCI-GITLAB

"Devicetree like"

- Patchset submitted on Feb 28th 2024
- Developed together with the KernelCI community
- More generic solution (common base)
- **Allows customizations (useful for subsystems)**

The Linux

Kernel

6.7.0-rc3

Quick search

Contents

A guide to the Kernel

Development Process

Submitting patches: the essential guide to getting your code into the kernel

Code of conduct

Kernel Maintainer Handbook

All development-process docs

Core API Documentation

Driver implementer's API guide

Kernel subsystem documentation

Locking in the kernel

Linux kernel licensing rules

How to write kernel

documentation

Development tools for the kernel

Kernel Testing Guide

Kernel Hacking Guides

Linux Tracing Technologies

fault-injection

Troubleshooting

If the pipeline doesn't trigger automatically, check the following:

1. Enable CI/CD in Project Settings:

- Go to *Settings > General > Visibility, project features, permissions*.
- Under *Repository*, ensure the *CI/CD* toggle is enabled.

2. Enable Container Registry:

- Still in *Settings*, find the *Container Registry* section.
- Enable the *Container Registry* toggle.

3. CI Minutes and Resources:

- If you've exhausted CI minutes or other resources on the Free Tier, consider setting up a local GitLab runner (see below).

Well documented from the start

Setting Up a Local GitLab Runner

You can use your own machine as a runner, instead of the shared runners provided by your GitLab instance.

1. Generate a GitLab Runner Token:

- Navigate to *Settings > CI/CD > Runners*.
- Expand the *Runners* section and click on "New project runner".
- Choose "Run untagged jobs" and click "Create runner".
- Copy the provided token.

Runners

Runners are processes that pick up and execute CI/CD jobs for GitLab. [What is GitLab Runner?](#)

Register as many runners as you want. You can register runners as separate users, on separate servers, and on your local machine.

How do runners pick up jobs?

Runners are either:

- online** - Available to run jobs.
- offline** - Not available to run jobs.

Tags control which type of jobs a runner can handle. By tagging a runner, you make sure shared runners only handle the jobs they are equipped to run. [Learn more](#).

Project runners Shared runners

Thread overview: 58+ messages / expand[flat|nested] mbox.gz Atom feed top

2024-02-28 22:55 [Helen Koike \[this message\]](#)

2024-02-28 22:55 ` [PATCH 1/3] kci-gitlab: Introducing GitLab-CI Pipeline for Kernel Testing Helen Koike

2024-02-29 2:44 ` Bird, Tim

2024-02-29 16:15 ` Nicolas Dufresne

2024-02-29 9:02 ` Maxime Ripard

2024-02-29 9:23 ` Nikolai Kondrashov

2024-02-29 9:56 ` Maxime Ripard

2024-02-29 10:05 ` Laurent Pinchart

2024-02-29 20:21 ` Linus Torvalds

2024-03-01 10:27 ` Nikolai Kondrashov

2024-03-01 14:07 ` Mark Brown

2024-03-01 14:21 ` Nikolai Kondrashov

2024-03-01 20:10 ` Linus Torvalds

2024-03-04 21:45 ` Helen Koike

2024-03-07 22:43 ` Leonardo Brás

2024-05-23 13:21 ` Daniel Vetter

2024-03-02 22:10 ` Guenter Roeck

2024-03-03 0:01 ` Randy Dunlap

2024-03-03 9:30 ` Geert Uytterhoeven

2024-03-04 8:12 ` Geert Uytterhoeven

2024-03-04 9:15 ` Maxime Ripard

2024-03-04 10:07 ` Geert Uytterhoeven

2024-03-04 10:19 ` Maxime Ripard

2024-03-04 11:12 ` Geert Uytterhoeven

2024-03-04 11:28 ` Maxime Ripard

2024-03-04 9:24 ` Maxime Ripard

2024-03-04 15:46 ` Guenter Roeck

2024-03-04 16:05 ` Maxime Ripard

Got a lot of feedback

Ack. I think seeing it as a library for various gitlab CI models would be a lot more palatable. Particularly if you can then show that yes, it is also relevant to our currently existing drm case.

So I'm not objecting to having (for example) some kind of CI helper templates - I think a logical place would be in tools/ci/ which is kind of alongside our tools/testing subdirectory.

(And then perhaps have a 'gitlab' directory under that. I'm not sure whether - and how much - commonality there might be between the different CI models of different hosts).

Just to clarify: when I say "a logical place", I very much want to emphasize the "a" - maybe there are better places, and I'm not saying that is the only possible place. But it sounds more logical to me than some.

Linus

Linus didn't block it

Ack. I think seeing it as a library for various gitlab CI models would be a lot more palatable. Particularly if you can then show that yes, it is also relevant to our currently existing drm case.

So I'm not objecting to having (for example) some kind of CI helper templates - I think a **logical place would be in tools/ci/** which is kind of alongside our tools/testing subdirectory.

(And then perhaps have a 'gitlab' directory under that. I'm not sure whether - and how much - commonality there might be between the different CI models of different hosts).

Just to clarify: when I say "a logical place", I very much want to emphasize the "a" - maybe there are better places, and I'm not saying that is the only possible place. But it sounds more logical to me than some.

Linus

Linus didn't block it

Helen Koike / Linux / Pipelines / #1194633350

kci-gitlab: docs: Add images

Blocked Helen Koike created pipeline for commit 38cf561e

For [kci-gitlab](#)

latest @ 14 jobs

Humble beginnings

Pipeline Needs Jobs 14 Tests 0

Group jobs by Stage Job dependencies



Red Hat

K kernel

Development is fully on GitLab

Source-git repo for the kernel.

See [documentation](#) for information. See [bugreports](#) for issues and mailing list info.

| | | | |
|---------------------------------|--------------------------------------|----------------------------|----------------------------|
| Recent activity Last 30 days | Merge requests created 269 | Issues created 1 | Members added 38 |
|---------------------------------|--------------------------------------|----------------------------|----------------------------|

Subgroups and projects Shared projects Inactive

Search

Name

U Utilities

0 2 3

K Kernel Tools

Common tools for working with the Red Hat and CentOS Stream kernels. This is NOT the kernel-tools package that...

★ 13

1 week ago

R Revumatic

The TUI tool for CentOS/RHEL kernel review.

★ 7

3 weeks ago

C centos-stream-10

Source-git repo for the kernel. See [documentation](#) for information. See [bugreports](#) for issues and mailing list info. Please...

★ 4

1 day ago

C centos-stream-8

Source repo for CentOS Stream 8 package "kernel". Merge requests will NEVER be merged here. Please follow [https://d...](#)

★ 10

1 year ago

C centos-stream-9

Source-git repo for the kernel. See [documentation](#) for information. See [bugreports](#) for issues and mailing list info. Pleas...

★ 72

1 hour ago

Open 256 Merged 3,525 Closed 687 All 4,468

Development is fully on GitLab

New merge request

Search or filter results...

Updated date

CNB95: net/sched: update TC core to upstream v6.8

!4235 · created 1 month ago by Ivan Vecera ◇ RHEL-9.5.0

Acks OK Acks::ethernet OK Acks::net OK Bugzilla OK CKI OK CKI_Automotive Warning CodeChanged v2
CommitRefs OK Configuration Dependencies OK ExternalCI OK ExternalCI::lnst OK Fixes OK JIRA OK
Merge Warning Signoff OK Subsystem:bpf Subsystem:ethernet Subsystem:lib Subsystem:net Subsystem:ppc64
Subsystem:ptp Subsystem:s390 Subsystem:tc readyForMerge

Merged 17 Approved updated 2 hours ago

nvmem: Fix shift-out-of-bound (UBSAN) with byte size cells

!4304 · created 3 weeks ago by Steve Best ◇ RHEL-9.5.0

Acks OK Bugzilla OK CKI OK CKI_Automotive Warning CommitRefs OK Dependencies OK ExternalCI OK Fixes OK
JIRA OK Merge OK Signoff OK Subsystem:nvmem readyForMerge

Merged 9 Approved updated 20 hours ago

kernel: watch_queue: copy user-array safely

!4302 · created 3 weeks ago by Steve Best ◇ RHEL-9.5.0

Acks OK Bugzilla OK CKI OK CKI_Automotive Warning CommitRefs OK Dependencies OK ExternalCI OK Fixes OK
JIRA OK Merge OK Signoff OK Subsystem:kernelinit readyForMerge

Merged 9 Approved updated 20 hours ago

lib/generic-radix-tree.c: Don't overflow in peek()

!4292 · created 3 weeks ago by Waiman Long ◇ RHEL-9.5.0

Acks OK Bugzilla OK CKI OK CKI_Automotive Warning CommitRefs OK Dependencies OK ExternalCI OK Fixes OK
JIRA OK Merge OK Signoff OK Subsystem:lib readyForMerge

Merged 9 Approved updated 20 hours ago

Yes, with merge requests!

CNB95: net/sched: update TC core to upstream v6.8

Edit Code ▾ ⋮

Merged Ivan Vecera requested to merge ivecera/centos-stream-9:... into main 1 month ago

Overview 17 Commits 126 Pipelines 3 Changes 185

All threads resolved! ⋮ Add a to do

JIRA: <https://issues.redhat.com/browse/RHEL-36218>

Note that patch 2 is needed for patch 3 to avoid compiler warnings and patch 1 is a dependency for patch 2.

Commits:

```
4eb6bd55cfb2 ("compiler.h: drop fallback overflow checkers")
d219d2a9a92e ("overflow: Allow mixed type arguments")
8798481b667f ("net/sched: wrap open coded Qdiscs class filter counter")
daf8d9181b9b ("net/sched: sch_drr: warn about class in use while deleting")
e20e75017c5a ("net/sched: sch_qfq: warn about class in use while deleting")
a57c34a80cbe ("net: flow_dissector: Add IPSEC dissector")
4c13eda757e3 ("tc: flower: support for SPI")
c8915d7329d6 ("tc: flower: Enable offload support IPSEC SPI field.")
992b47851be9 ("net: pkt_cls: Remove unused inline helpers")
09e0c3bbde90 ("net/sched: taprio: don't access q->qdiscs[] in unoffloaded mode during attach")
25b0d4e4e41f ("net/sched: taprio: keep child Qdisc refcount elevated at 2 in offload mode")
98766add2d55 ("net/sched: taprio: try again to report q->qdiscs[] to qdisc_leaf()")
6e0ec800c174 ("net/sched: taprio: delete misleading comment about preallocating child qdiscs")
665338b2a7a0 ("net/sched: taprio: dump class stats for the actual q->qdiscs[]")
```

0 Assignees Edit
None - assign yourself

Reviewer Edit
Davide Caratti

Labels Edit
Acks OK x Acks::ethernet OK x
Acks::net OK x Bugzilla OK x
CKI OK x CKI_Automotive Warning x
CodeChanged v2 x CommitRefs OK x
Dependencies OK x ExternalCI OK x
ExternalCI::Inst OK x Fixes OK x
JIRA OK x Merge Warning x
Signoff OK x Configuration x
Subsystem:bpf x Subsystem:ethernet x
Subsystem:lib x Subsystem:net x
Subsystem:net64 x Subsystem:ptp x

And it's full of tags!

CNB95: net/sched: update TC core to upstream v6.8

Edit Code ▾ ⋮

Merged Ivan Vecera requested to merge ivecera/centos-stream-9:... into main 1 month ago

Overview 17 Commits 126 Pipelines 3 Changes 185

All threads resolved! ⋮ Add a to do

JIRA: <https://issues.redhat.com/browse/RHEL-36218>

Note that patch 2 is needed for patch 3 to avoid compiler warnings and patch 1 is a dependency for patch 2.

Commits:

```
4eb6bd55cfb2 ("compiler.h: drop fallback overflow checkers")
d219d2a9a92e ("overflow: Allow mixed type arguments")
8798481b667f ("net/sched: wrap open coded Qdiscs class filter counter")
daf8d9181b9b ("net/sched: sch_drr: warn about class in use while deleting")
e20e75017c5a ("net/sched: sch_qfq: warn about class in use while deleting")
a57c34a80cbe ("net: flow_dissector: Add IPSEC dissector")
4c13eda757e3 ("tc: flower: support for SPI")
c8915d7329d6 ("tc: flower: Enable offload support IPSEC SPI field.")
992b47851be9 ("net: pkt_cls: Remove unused inline helpers")
09e0c3bbde90 ("net/sched: taprio: don't access q->qdiscs[] in unoffloaded mode during attach")
25b0d4e4e41f ("net/sched: taprio: keep child Qdisc refcount elevated at 2 in offload mode")
98766add2d55 ("net/sched: taprio: try again to report q->qdiscs[] to qdisc_leaf()")
6e0ec800c174 ("net/sched: taprio: delete misleading comment about preallocating child qdiscs")
665338b2a7a0 ("net/sched: taprio: dump class stats for the actual q->qdiscs[]")
```

0 Assignees Edit
None - assign yourself

Reviewer Edit
Davide Caratti

Labels Edit

- Acks OK x
- Acks::ethernet OK x
- Acks::net OK x
- Bugzilla OK x
- CKI OK x
- CKI_Automotive Warning x
- CodeChanged v2 x
- CommitRefs OK x
- Dependencies OK x
- ExternalCI OK x
- ExternalCI::Inst OK x
- Fixes OK x
- JIRA OK x
- Merge Warning x
- Signoff OK x
- Configuration x
- Subsystem:bpf x
- Subsystem:ethernet x
- Subsystem:lib x
- Subsystem:net x
- Subsystem:netns x
- Subsystem:ptp x

Labels Edit

- Acks OK × Acks::ethernet OK ×
- Acks::net OK × Bugzilla OK ×
- CKI OK × CKI_Automotive Warning ×
- CodeChanged v2 × CommitRefs OK ×
- Dependencies OK × ExternalCI OK ×
- ExternalCI::Inst OK × Fixes OK ×
- JIRA OK × Merge Warning ×
- Signoff OK × Configuration ×
- Subsystem:bpf × Subsystem:ethernet ×
- Subsystem:lib × Subsystem:net ×
- Subsystem:ppc64 × Subsystem:ptp ×
- Subsystem:s390 × Subsystem:tc ×
- readyForMerge ×

And it's full of tags!



CKI KWF Bot · 1 month ago

Bughook Readiness Report

Nothing to report, this MR is using jira instead of bugzilla.

Updated 2024-05-14 13:47 UTC by bughook - [KWF FAQ](#) - [Slack #team-kernel-workflow](#) - [Source](#) - [Documentation](#) - [Report an issue](#)

Edited 1 month ago by CKI KWF Bot

And bots!

- CKI KWF Bot added **Bugzilla** label 1 month ago
- CKI KWF Bot added **Signoff** label 1 month ago



CKI KWF Bot · 1 month ago

JIRA Hook Readiness Report

Target Branch: main

This merge request **passes** jirahook validation: JIRA OK

JIRA Issue tags:

| JIRA Issue | CVEs | Commits | Readiness | Policy Check | Notes |
|---|------|--|-----------------|--------------|-------|
| RHEL-36218 (IN_PROGRESS) | None | 8e5db706 d3122b79 3c695a0e b60bb411 1ea3d224 | READY_FOR_MERGE | Passed | - |

And bots!

maintainer

And bots!

- CKI KWF Bot changed milestone to `%RHEL-9.5.0` 1 month ago



CKI KWF Bot · 1 month ago

Maintainer



DCO Signoff Check Report `Signoff OK`

The DCO Signoff Check for all commits and the MR description has **PASSED**.

Updated 2024-05-14 13:47 UTC by signoff - [KWF FAQ](#) - [Slack #team-kernel-workflow](#) - [Source](#) - [Documentation](#) - [Report an issue](#)

Edited 1 month ago by CKI KWF Bot

- CKI KWF Bot added `JIRA Planning` label 1 month ago

And bots!

- CKI KWF Bot added CKI Running CKI_64k Running CKI_Autom
CKI_RT Running labels 1 month ago



CKI KWF Bot · 1 month ago

Maintainer



CKI Pipelines Status: CKI OK

Blocking pipelines

Successful pipelines

These pipelines have been completed successfully or have been waived.

- CKI_CentOS OK [c9s_merge_request](#) was successful.
- CKI_RHEL OK [c9s_rhel9_compat_merge_request](#) was successful.
- CKI_RT OK [c9s_rt_merge_request](#) was successful.
- CKI_64k OK [c9s_64k_merge_request](#) was successful.

And bots!

Non-blocking pipelines

Failed pipelines

These pipelines have failed or been canceled.

- **CKI_Automotive** **Warning** `c9s_automotive_check_merge_request` failed at the kernel-results stage.

Issue: aarch64 - kselftests AUTOSD-RHIVOS - bpf_test_progs:

Maintainers: fmaurer-rh, liuhangbin, sbertram

Logs: <https://datawarehouse.cki-project.org/kcidb/tests/12468518>

Non-passing subtests:

- SKIP kselftests/7..431 selftests: bpf_test_progs:attach_probe [SKIP]
- SKIP kselftests/8..431 selftests: bpf_test_progs:autoattach [SKIP]
- FAIL kselftests/11..431 selftests: bpf_test_progs:bloom_filter_map [FAIL]
- SKIP kselftests/13..431 selftests: bpf_test_progs:bpf_iter [SKIP]
- FAIL kselftests/16..431 selftests: bpf_test_progs:bpf_loop [FAIL]

And bots!

- CKI KWF Bot added `Dependencies` `OK` label 1 month ago
- CKI KWF Bot added `ExternalCI` `NeedsTesting` `ExternalCI::Inst` `NeedsTesting` `Subsystem:bpf` `Subsystem:ethernet` `Subsystem:lib` `Subsystem:net` `Subsystem:ppc64` `Subsystem:ptp` `Subsystem:s390` `Subsystem:tc` labels 1 month ago



CKI KWF Bot · 1 month ago

Maintainer



Affected subsystem(s): ethernet, bpf, ppc64, s390, lib, ptp, net

Requesting review of subsystem ethernet with 0 required approval(s) from user(s) [@jwilsonrh](#) [@kheib](#) [@kencox](#) [@poros2](#) [@vinschen](#) [@mschmidt2](#) [@ibakolla](#) [@sassmann_rh](#) [@jtornosm](#)

Requesting review of subsystem bpf with 0 required approval(s) from user(s) [@jbenchrh](#) [@vmalikh](#) [@artem.savkov](#) [@jeromemarchand](#)

Requesting review of subsystem ppc64 with 0 required approval(s) from user(s) [@sfbest](#)

And bots!

Requesting review of subsystem bpf with 0 required approval(s) from user(s)

[@vmalikh](#) [@artem.savkov](#) [@jeromemarchand](#)

Requesting review of subsystem ppc64 with 0 required approval(s) from user(s) [@sfbest](#)

Requesting review of subsystem s390 with 0 required approval(s) from user(s) [@sfbest](#)

Requesting review of subsystem lib with 0 required approval(s) from user(s) [@onestero](#) [@raquni](#)
[@npache](#) [@walac](#) [@crecklin](#) [@prarit](#) [@hertonrk-rh](#) [@esyr-rh](#) [@arozansk](#)

Requesting review of subsystem ptp with 0 required approval(s) from user(s) [@prarit](#) [@jbenchrh](#)

Requesting review of subsystem net with 1 required approval(s) from user(s) [@jwilsonrh](#)
[@liuhangbin](#) [@LorenzoBianconi](#) [@lxin.redhat](#) [@psutter1](#) [@fwestpha](#) [@egarver](#) [@fmaurer-rh](#)
[@sdubroca](#) [@dcaratti](#) [@bnemeth](#) [@pabeni](#) [@marcelo.leitner](#) [@jbenchrh](#) [@aclaudi](#) [@fleitner](#)
[@gnault](#) [@atenart](#) [@tohojo](#)

Created 2024-05-14 13:47 UTC by ack_nack - [KWF FAQ](#) - [Slack #team-kernel-workflow](#) - [Source](#) -
[Documentation](#) - [Report an issue](#)

I got tired making bot screenshots

Check the link for much more

The point is no humans were involved in these checks

The testing summary

 Merged result pipeline [#1296113921](#) passed with warnings

Merged result pipeline passed with warnings for `39415e55` 3 weeks ago



Red Hat / centos-stream / src / kernel / centos-stream-9 / Pipelines / #1296113921

Merge: CNB95: net/sched: update TC core to upstream v6.8

Warning Ivan Vecera created pipeline for commit 39415e55 3 weeks ago, finished 3 weeks ago

Related merge request !4235 to merge RHEL-36218 into main

merged results 5 jobs 4441 minutes 27 seconds, queued for 1 seconds

Pipeline Needs Jobs 5 Tests 0

test

- ✓ c9s_64k_merge_request ↻
Trigger job
- ✗ c9s_automotive_check_merge_request ↻
Trigger job
- ✓ c9s_merge_request ↻
Trigger job
- ✓ c9s_rhel9_compat_merge_request ↻
Trigger job
- ✓ c9s_rt_merge_request ↻
Trigger job

Downstream

- ✓ cki-trusted-contr... #1296113930 >
Multi-project
- ✓ cki-trusted-contr... #1296113929 >
Multi-project
- ✓ cki-internal-contr... #1296113928 >
Multi-project
- ✓ cki-trusted-contr... #1296113927 >
Multi-project
- ✗ cki-trusted-contr... #1296113926 ↻ >
Multi-project

Hides this

Red Hat / centos-stream / src / kernel / centos-stream-9 / Pipelines / #1296113921

Merge: CNB95: net/sched: update TC core to upstream v6.8

Warning Ivan Vecera created pipeline for commit [39x15e55](#) 3 weeks ago, finished 3 weeks ago

Related merge request [14235](#) to merge [RHEL-16218](#) into [main](#)

[merged results](#) 5 jobs 4441 minutes 27 seconds, queued for 1 seconds

Pipeline Needs Jobs 5 Tests 0

test

- ✓ c9s_64k_merge_request [Trigger job](#)
- ✗ c9s_automotive_check_merge_request [Trigger job](#)
- ✓ c9s_merge_request [Trigger job](#)
- ✓ c9s_the19_compat_merge_request [Trigger job](#)
- ✓ c9s_rt_merge_request [Trigger job](#)

Downstream

- ✓ cki-trusted-contr... #1296113930 [Multi-project](#)
- ✓ cki-trusted-contr... #1296113929 [Multi-project](#)
- ✓ cki-internal-cont... #1296113928 [Multi-project](#)
- ✓ cki-trusted-contr... #1296113927 [Multi-project](#)
- ✗ cki-trusted-contr... #1296113926 [Multi-project](#)

Which is ...

... actually ...

Red Hat / centos-stream / src / kernel / centos-stream-9 / Pipelines / #1296113921

Merge: CNB95: net/sched: update TC core to upstream v6.8

Warning Ivan Vecera created pipeline for commit 39x15e55 3 weeks ago, finished 3 weeks ago

Related merge request 14235 to merge RHEL-36218 into main

[merged results](#) 5 jobs 4441 minutes 27 seconds, queued for 1 seconds

Pipeline Needs Jobs 5 Tests 0

- test
 - c9s_64k_merge_request [Trigger job](#)
 - c9s_automotive_check_merge_request [Trigger job](#)
 - c9s_merge_request [Trigger job](#)
 - c9s_rhel9_compat_merge_request [Trigger job](#)
 - c9s_rt_merge_request [Trigger job](#)

Downstream

- ckl-trusted-contr... #1296113930 [Multi-project](#)
- ckl-internal-cont... #1296113925 [Multi-project](#)
- ckl-trusted-contr... #1296113927 [Multi-project](#)
- ckl-trusted-contr... #1296113926 [Multi-project](#)

- prepare
 - prepare builder aarch64
 - prepare builder ppc64le
 - prepare builder s390x
 - prepare builder x86_64
 - prepare python

- merge
 - merge

- build
 - build aarch64
 - build aarch64 debug
 - build ppc64le
 - build ppc64le debug
 - build s390x
 - build s390x debug
 - build x86_64
 - build x86_64 debug

- build-tools
 - build_tools ppc64le
 - build_tools ppc64le debug
 - build_tools s390x
 - build_tools s390x debug

- publish
 - publish aarch64
 - publish aarch64 debug
 - publish ppc64le
 - publish ppc64le debug
 - publish s390x
 - publish s390x debug
 - publish x86_64
 - publish x86_64 debug

Red Hat / centos-stream / src / kernel / centos-stream-9 / Pipelines / #1296113921

Merge: CNB95: net/sched: update TC core to upstream v6.8

Warning Ivan Vecera created pipeline for commit 39x15e55 3 weeks ago, finished 3 weeks ago

Related merge request 14235 to merge RHEL-36218 into saia

[merged results](#) 60 5 jobs 4441 minutes 27 seconds, queued for 1 seconds

Pipeline Needs Jobs 5 Tests 0

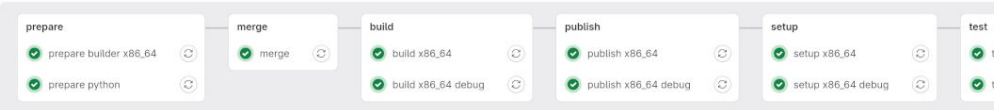
test

- ✓ c9s_64k_merge_request [Trigger job](#)
- ✗ c9s_automotive_check_merge_request [Trigger job](#)
- ✓ c9s_merge_request [Trigger job](#)
- ✓ c9s_the19_compat_merge_request [Trigger job](#)
- ✓ c9s_rt_merge_request [Trigger job](#)

Downstream

- ✓ cki-trusted-contr... #1296113930 [Multi-project](#)
- ✓ cki-trusted-contr... #1296113929 [Multi-project](#)
- ✓ cki-internal-cont... #1296113928 [Multi-project](#)
- ✓ cki-trusted-contr... #1296113927 [Multi-project](#)
- ✗ cki-trusted-contr... #1296113926 [Multi-project](#)

... five ...



... pipelines ...

Red Hat / centos-stream / src / kernel / centos-stream-9 / Pipelines / #1296113921

Merge: CNB95: net/sched: update TC core to upstream v6.8

Warning Ivan Vecera created pipeline for commit [39x15e85](#) 3 weeks ago, finished 3 weeks ago

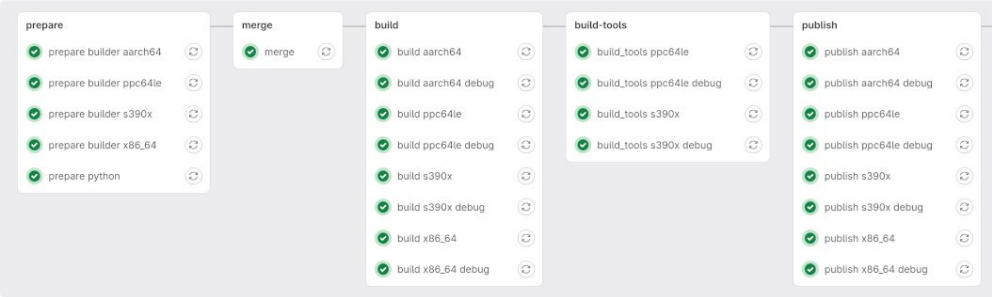
Related merge request [14235](#) to merge [SHEL-36218](#) into [aa:in](#)

[merged results](#) 5 jobs 4441 minutes 27 seconds, queued for 1 seconds

Pipeline Needs Jobs 5 Tests 0

- test
 - ✓ c9s_64k_merge_request [Trigger job](#)
 - ✗ c9s_automotive_check_merge_request [Trigger job](#)
 - ✓ c9s_merge_request [Trigger job](#)
 - ✓ c9s_rhel9_compat_merge_request [Trigger job](#)
 - ✓ c9s_rt_merge_request [Trigger job](#)

- Downstream
 - ✓ cki-trusted-contr... #1296113930 [Multi-project](#)
 - ✓ cki-trusted-contr... #1296113929 [Multi-project](#)
 - ✓ cki-internal-cont... #1296113928 [Multi-project](#)



- Downstream
 - ✓ cki-trusted-contr... #1296113927 [Multi-project](#)
 - ✗ cki-trusted-contr... #1296113926 [Multi-project](#)

... in ...

Red Hat / centos-stream / src / kernel / centos-stream-9 / Pipelines / #1296113921

Merge: CNB95: net/sched: update TC core to upstream v6.8

Warning Ivan Vecera created pipeline for commit 39x15e55 3 weeks ago, finished 3 weeks ago

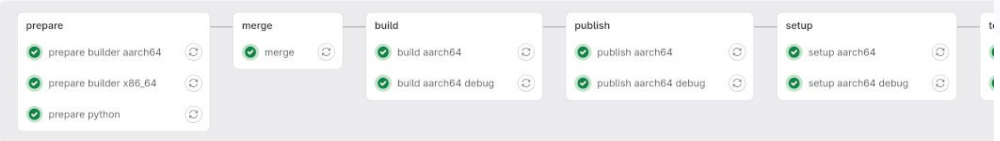
Related merge request 14235 to merge RHEL-36218 into main

[merged results](#) 60 5 jobs 4441 minutes 27 seconds, queued for 1 seconds

Pipeline Needs Jobs 5 Tests 0

- ✓ c9s_64k_merge_request [Trigger job](#)
- ✗ c9s_automotive_check_merge_request [Trigger job](#)
- ✓ c9s_merge_request [Trigger job](#)
- ✓ c9s_rhel9_compat_merge_request [Trigger job](#)
- ✓ c9s_rt_merge_request [Trigger job](#)

- ### Downstream
- ✓ cki-trusted-contr... #1296113930 [Multi-project](#)
 - ✓ cki-trusted-contr... #1296113929 [Multi-project](#)
 - ✓ cki-internal-cont... #1296113928 [Multi-project](#)
 - ✓ cki-trusted-contr... #1296113927 [Multi-project](#)
 - ✗ cki-trusted-contr... #1296113926 [Multi-project](#)



Red Hat / centos-stream / src / kernel / centos-stream-9 / Pipelines / #1296113921

Merge: CNB95: net/sched: update TC core to upstream v6.8

Warning Ivan Vecera created pipeline for commit 39x15e55 3 weeks ago, finished 3 weeks ago

Related merge request 14235 to merge RHEL-36218 into aa:in

[merged results](#) 5 jobs 4441 minutes 27 seconds, queued for 1 seconds

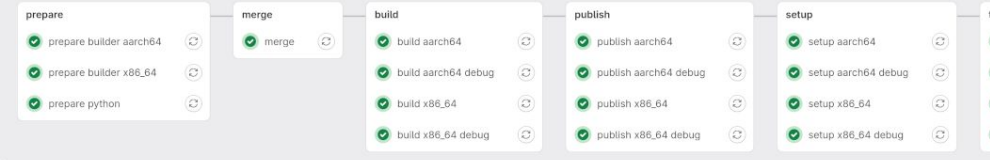
Pipeline Needs Jobs 5 Tests 0

test

- ✓ c9s_64k_merge_request [Trigger job](#)
- ✗ c9s_automotive_check_merge_request [Trigger job](#)
- ✓ c9s_merge_request [Trigger job](#)
- ✓ c9s_the19_compat_merge_request [Trigger job](#)
- ✓ c9s_rt_merge_request [Trigger job](#)

Downstream

- ✓ cki-trusted-contr... #1296113930 [Multi-project](#)
- ✓ cki-trusted-contr... #1296113929 [Multi-project](#)
- ✓ cki-internal-cont... #1296113928 [Multi-project](#)
- ✓ cki-trusted-contr... #1296113927 [Multi-project](#)
- ✗ cki-trusted-contr... #1296113926 [Multi-project](#)



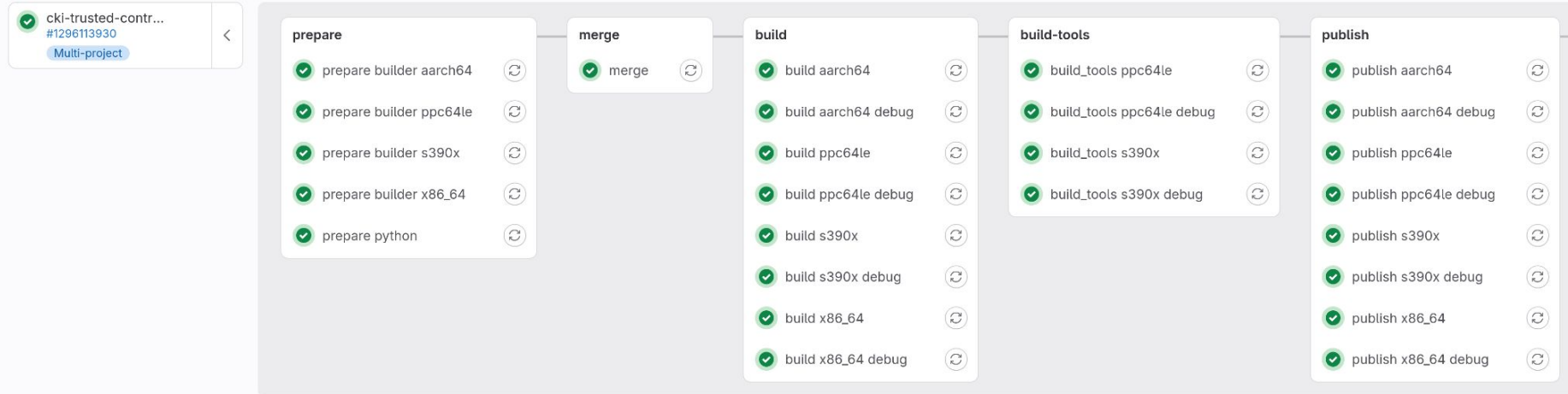
... one.

And it's just one pipeline flavor. We're flexible!

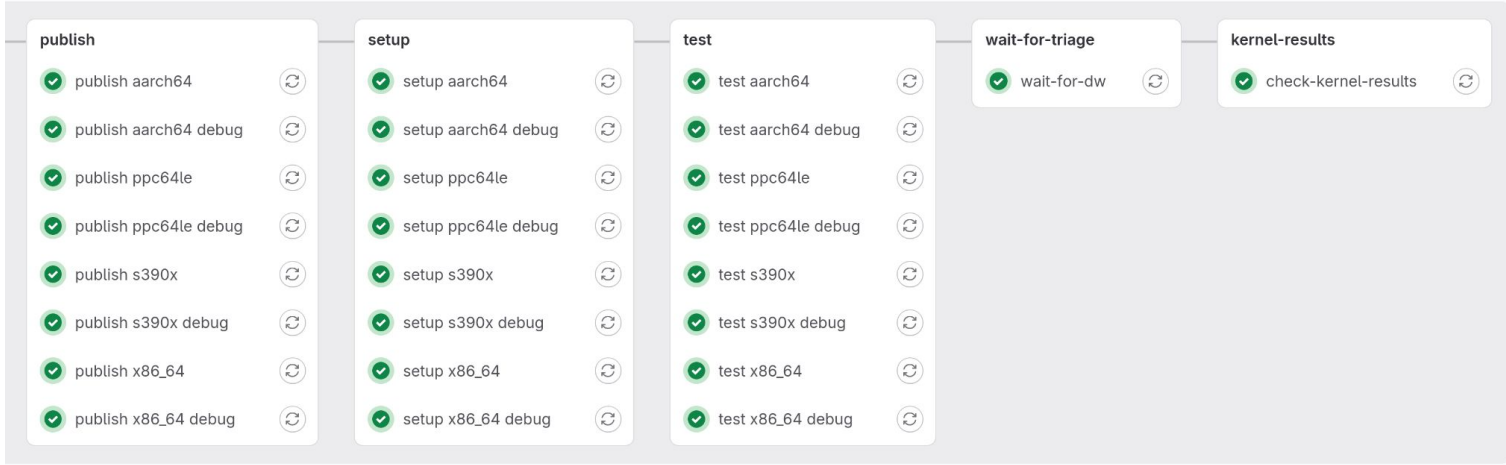
Don't ask us to show you our YAML

The main part of a pipeline?

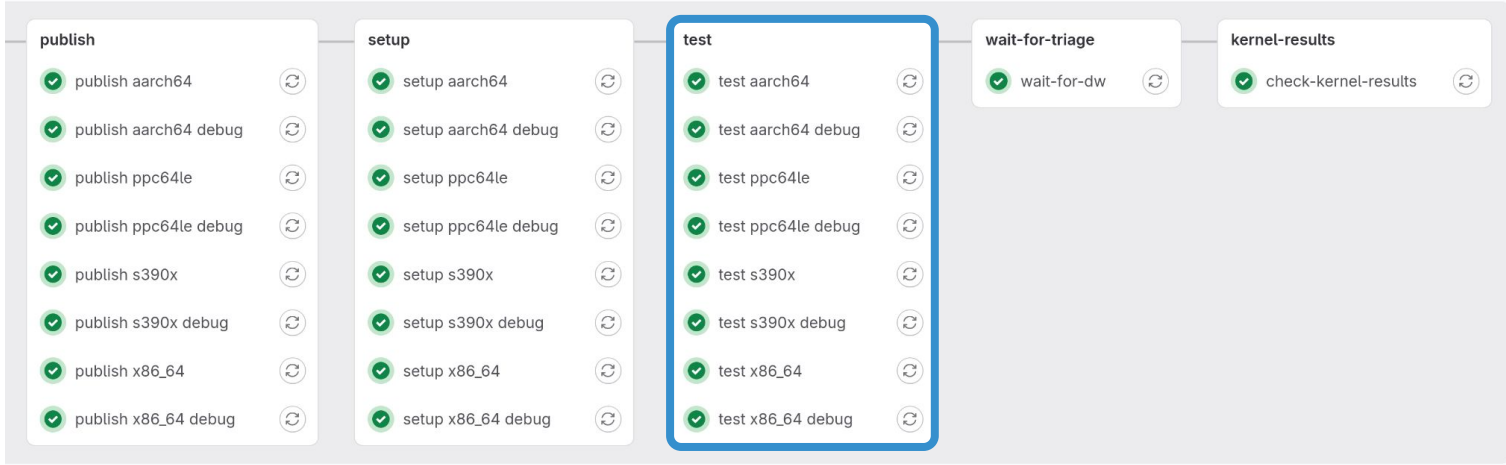
Downstream



The main part of a pipeline?



Testing!



- CKI
- Checkouts
- Builds
- Tests
- Issues
- CONFIDENCE
- Tests
- Hosts

Search by Checkout, Kernel Version or MR ID

Testing!

Checkout redhat:1296113930

Actions

CHECKOUT STATUS
Valid

BUILD STATUS
Passed

8 ✓

TEST STATUS
Errored

47 0 1 16 16

Checkout ID: redhat:1296113930 [Show Checkouts from the same MR](#) 14235 [Gitlab Pipeline](#)

Tree: c9s
Commit Hash: 39415e551eb0a69bce8df08c8d97ebe5c1a7661f
NVR: kernel-5.14.0-451.4235_1296113921.el9

Repository: https://gitlab.com/redhat/centos-stream/src/kernel/centos-stream-9.git @ main
Commit Name: kernel-5.14.0-451.el9-129-g39415e551eb0
Start Time: May 18, 2024, 3:49 p.m.

Running: 0 Skipped: 42 Passed: 302 Missed: 47 Errored: 1 Failed: 16

UNTRIAGED ISSUES

x86_64-kernel-debug_upt_47 trace: ftrace/tracer

KNOWN ISSUE | 14 TESTS AFFECTED

> **Non-Kernel Bug** [rhel9] [s390x] avc: denied { ioctl } for pid=19988 comm="systemctl" path="/dev/z90crypt" dev="devtmpfs" ino=100 ioctlcmd=0x7a05 scontext=system_u:system_r:init_t:s0 tcontext=system_u:object_r:crypt_device_t:s0 tclass=chr_file permissive=1

Search by Checkout, Kernel Version or MR ID

Checkout redhat:1296113930

Actions

CHECKOUT STATUS
Valid

BUILD STATUS
Passed

8 ✓

TEST STATUS
Errored

47 0 1 16 16

Checkout ID: redhat:1296113930 [Show Checkouts from the same MR](#) 14235 Gitlab Pipeline

Tree: c9s Repository: <https://gitlab.com/redhat/centos-stream/src/kernel/centos-stream-9.git> @ main

Commit Hash: 39415e551eb0a69bce8df08c8d97ebe5c1a7661f Commit Name: kernel-5.14.0-451.el9-129-g39415e551eb0

NVR: kernel-5.14.0-451.4235_1296113921.el9 Start Time: May 18, 2024, 3:49 p.m.

Running: 0 Skipped: 42 Passed: 302 Missed: 47 Errored: 1 Failed: 16

UNTRIAGED ISSUES

x86_64-kernel-debug_upt_47 trace: ftrace/tracer

KNOWN ISSUE | 14 TESTS AFFECTED

> **Non-Kernel Bug** [rhel9] [s390x] avc: denied { ioctl } for pid=19988 comm="systemctl" path="/dev/z90crypt" dev="devtmpfs" ino=100 ioctlcmd=0x7a05 scontext=system_u:system_r:init_t:s0 tcontext=system_u:object_r:crypt_device_t:s0 tclass=chr_file permissive=1

These are test suites

TEST STATUS
Errored

47 0 1 16 16

Show Checkouts from the same MR 14235 Gitlab Pipeline

UNTRIAGED ISSUES

x86_64-kernel-debug_upt_47 trace: ftrace/tracer

KNOWN ISSUE | 14 TESTS AFFECTED

> **Non-Kernel Bug** [rhel9] [s390x] avc: denied { ioctl } for pid=19988 comm="systemctl" path="/dev/z90crypt" dev="devtmpfs" ino=100 ioctlcmd=0x7a05 scontext=system_u:system_r:init_t:s0 tcontext=system_u:object_r:crypt_device_t:s0 tclass=chr_file permissive=1

Search by Checkout, Kernel Version or MR ID

Checkout redhat:1296113930

Only the applicable ones

TEST STATUS
Errored

47 1 16

Start Time: May 18, 2024, 3:49 p.m.

Running: 0 Skipped: 42 Passed: 302 Missed: 47 Errored: 1 Failed: 16

UNTRIAGED ISSUES

x86_64-kernel-debug_upt_47 trace: ftrace/tracer

KNOWN ISSUE | 14 TESTS AFFECTED

> **Non-Kernel Bug** [rhel9] [s390x] avc: denied { ioctl } for pid=19988 comm="systemctl" path="/dev/z90crypt" dev="devtmpfs" ino=100 iocltcmd=0x7a05 scontext=system_u:system_r:init_t:s0 tcontext=system_u:object_r:crypt_device_t:s0 tclass=chr_file permissive=1

So what?



KernelCI So what?

What's so good about GitLab?

- **Git, duh**
- **Code review Web UI**
- **Automation API**
- **Best-of-breed CI**
 - Gating, pre-merge
 - Post-merge
 - Results referenced by commits
 - Self-managed runners
- **Self-managed instances**
- **Open-Core (MIT), and Open Source friendly**

Common arguments against GitLab

- **Centralization**
 - Single point of failure
 - Controlled by a corporation
 - Not fully open, only "open-core"
 - Some features are "premium"
 - Requires signing in on each separate instance
 - Non-anonymous
- **Web UI is slow and hard to navigate**
- **Need to be online to review code**



KernelCI So what?

Yes:

- **Email workflow is flexible and democratic**
- **But is also fussy**
- **People will make their choice**

**GitLab comes at a cost of
*learning and limitations.***

***Yet saves you time and effort
through automation and integration***

**For help with your GitLab setup
reach out to KernelCI IRC channel
#kernelci at libera.chat
and the maillist
*kernelci@lists.linux.dev***

Discussion time!

Thank you!



Join Us!

#kernelci at libera.chat

#kernelci The upstream kernel validation project: <http://kernelci.org> | Mailing list: <https://lists.linaro.org/mailman...> 71

Tuesday, February 16th, 2021 about 21 hours ago

A **alicef** none
spbnick: sending it 21:31
→ FFY00 nipped out 22:41

Wednesday, February 17th, 2021

→ sestebanz and kverz_broke joined ← alexandra, shuah and kveremitz quit → selvak1631189 popped in → csd nipped out 01:10

S **spbnick** Nikolai Kondrashov
alicef: Yep, I see it now, awesome :D 10:52
→ mwasilew joined ← veremitz quit → selvak1631189, gaulishcoin9 and gaulishcoin3 popped in • kverz_broke → kveremitz 10:57

S **spbnick** Nikolai Kondrashov
Everyone who's around, say hi for a channel screenshot for my talk on Friday 🙌! 12:19

G **gtucker** Guillaume Tucker
o/ KernelCI rules :) 12:33
→ vkabatova joined (~vkabatova@176-74-128-122.netdatacomm.cz) 12:40

M **montjoie**
hello 12:49
→ monstr joined 15:50

S **spbnick** | 18:26