

What lies beyond the kernel's email workflow?

DevConf.cz 2024

Nikolai Kondrashov, Tales da Aparecida

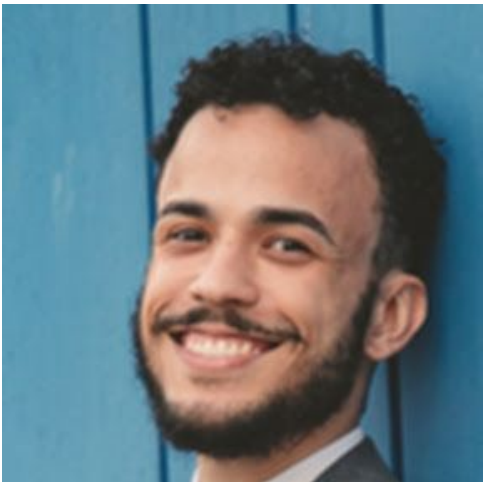


Nikolai Kondrashov

    [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

Working from Brazil

2023 Maintainers Summit



KernelCI At the 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".



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The email workflow

KernelCI The email workflow is great



Contributors Submit

Contributors submit a versioned patch series to mailing lists

Community Review

Members of the community review each commit, and either ask for changes or give their “Reviewed by”

Maintainers Merge

Maintainers or committers push the changes to the tree, usually running a list of health checks



Contributors Submit

Community Review

Maintainers Merge

Steep learning curve.
The discussions are left behind when a new version of the patch series is submitted.

Reviewers are toiled with issues that could be automated away, like **formatting problems; conflicts with the head of the tree; code that does not compile cleanly.**

Some of the health checks could also be automated, and made available earlier in the process, reducing maintainer's workload

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 daapare

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
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Patchwork Bluetooth Patches Bundles

Show patches with: State = Action Required | Archi

tracks mailing list interactions

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Acked-by
Reviewed-by
Tested-by

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supports third-party test results

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Success
Warning
Fail

Patchwork Bluetooth

Patches

Bundles

daapare

supports third-party test results

[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?



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<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 What is the next best thing?

Which Git forge to use?

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



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

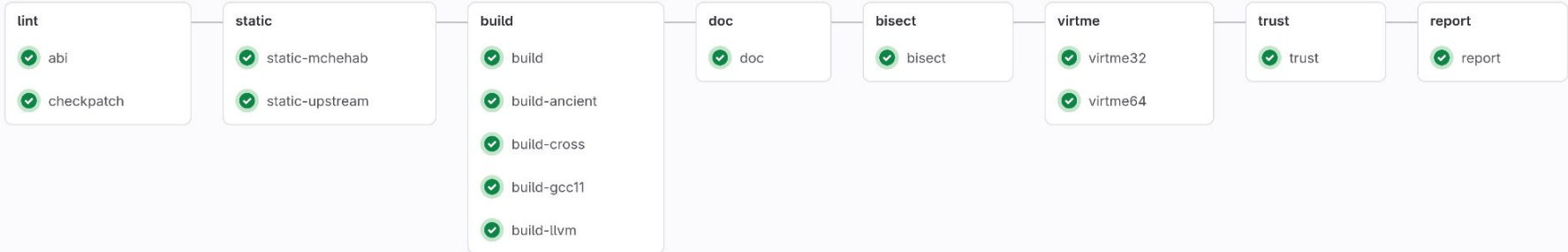
✓ Passed **** created pipeline for commit `24147897` 1 week ago, finished 1 week ago

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



Intel Xe DRM driver

☰ Intel Xe

🌐 8 languages ▾

Article [Talk](#)

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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





KernelCI Intel Xe DRM driver

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](#): 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 Search Set reviewer Test again

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

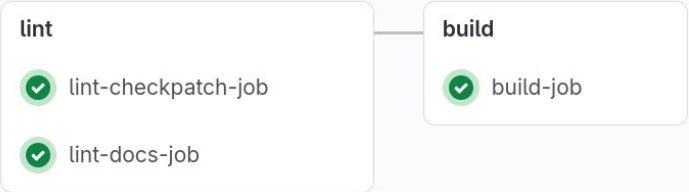
drm/xe: Convert remaining instances of ttm_eu_reserve_buffers to drm_exec

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.



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

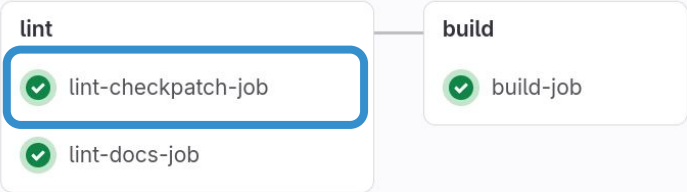
drm/xe: Convert remaining instances of ttm_eu_reserve_buffers to drm_exec

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

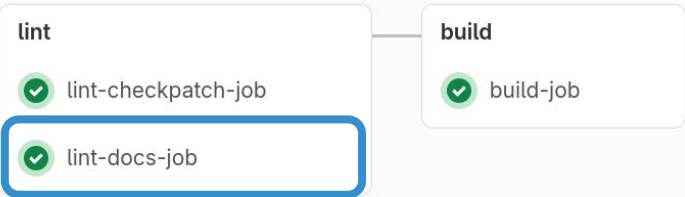
drm/xe: Convert remaining instances of ttm_eu_reserve_buffers to drm_exec

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





KernelCI Intel Xe DRM driver

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

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

```
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
psed=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
19 889 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**

lint

✓ lint-checkpatch-job

✓ lint-docs-job

build

✓ build-job



KernelCI Intel Xe DRM driver

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

```
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 libliberty-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 a small icon or bullet point.

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

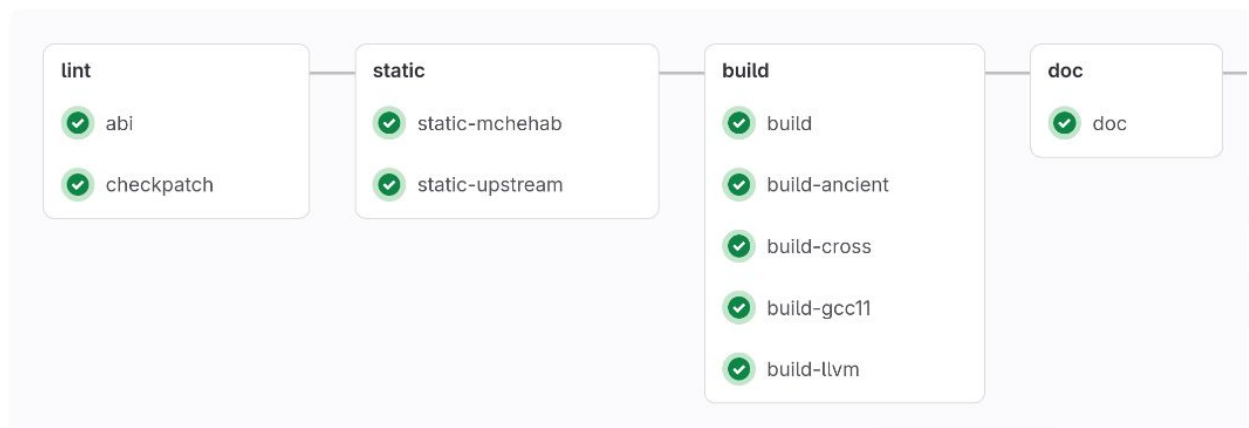
✓ Passed media-sync created pipeline for commit `24147897` 1 week ago, finished 1 week ago

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

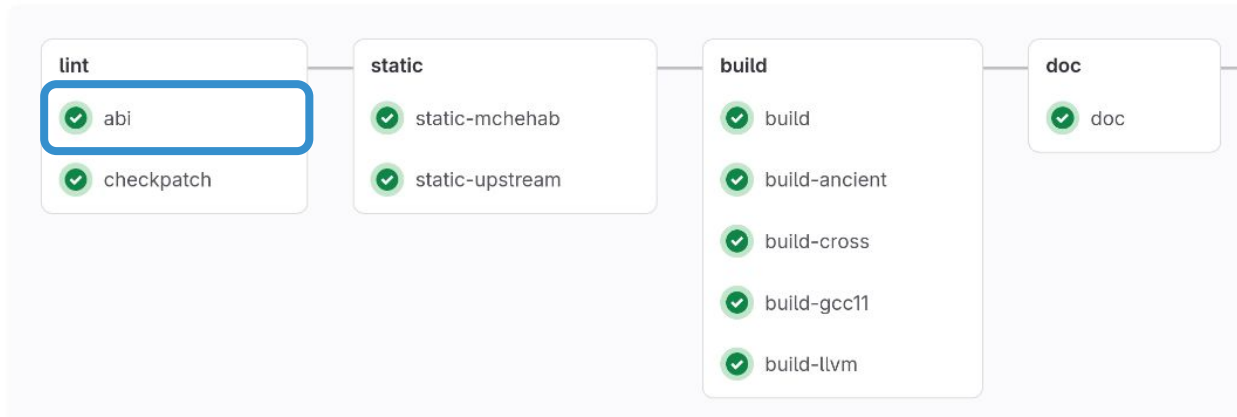
✓ Passed media-sync created pipeline for commit `24147897` 1 week ago, finished 1 week ago

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

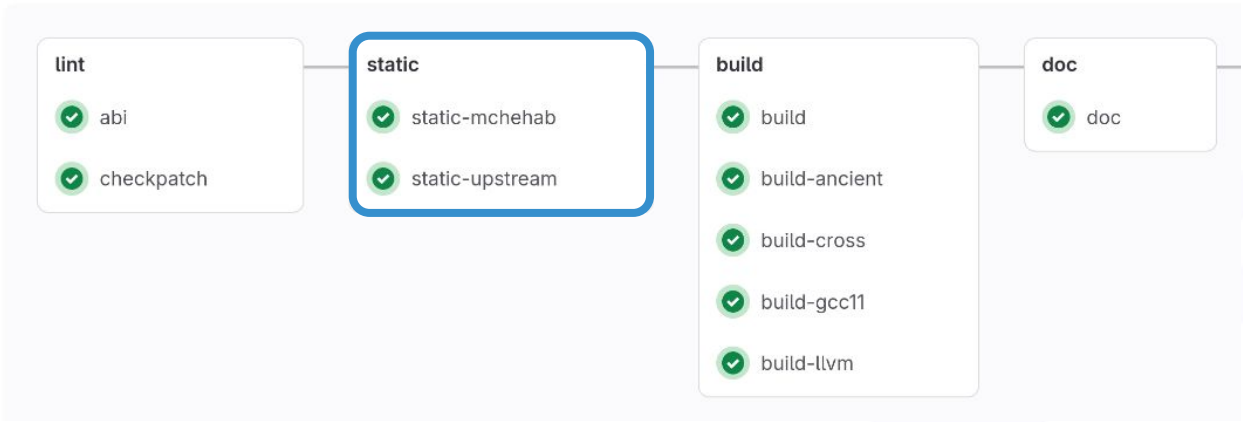
✓ Passed media-sync created pipeline for commit `24147897` 1 week ago, finished 1 week ago

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

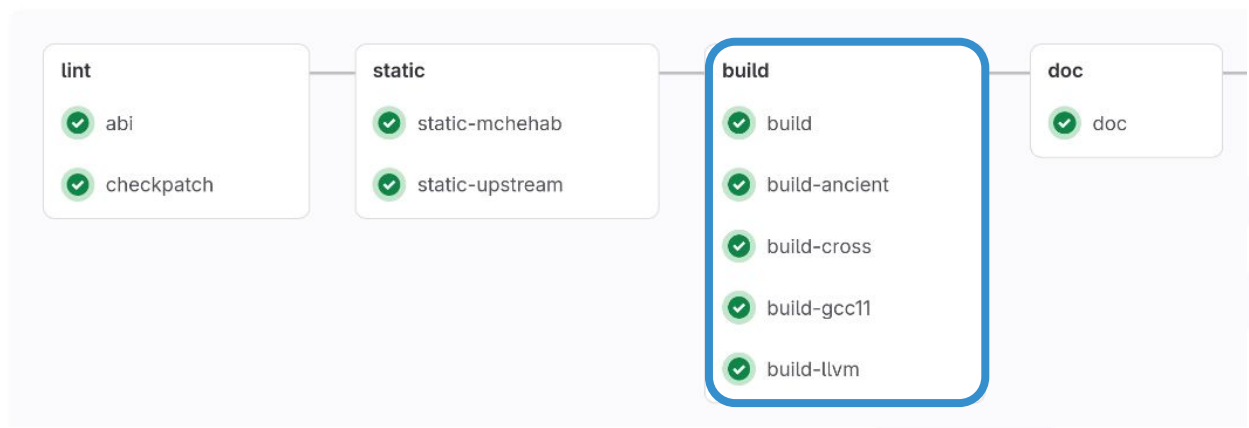
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Pipeline Needs Jobs 15 Tests 72

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

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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

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✓ 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

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

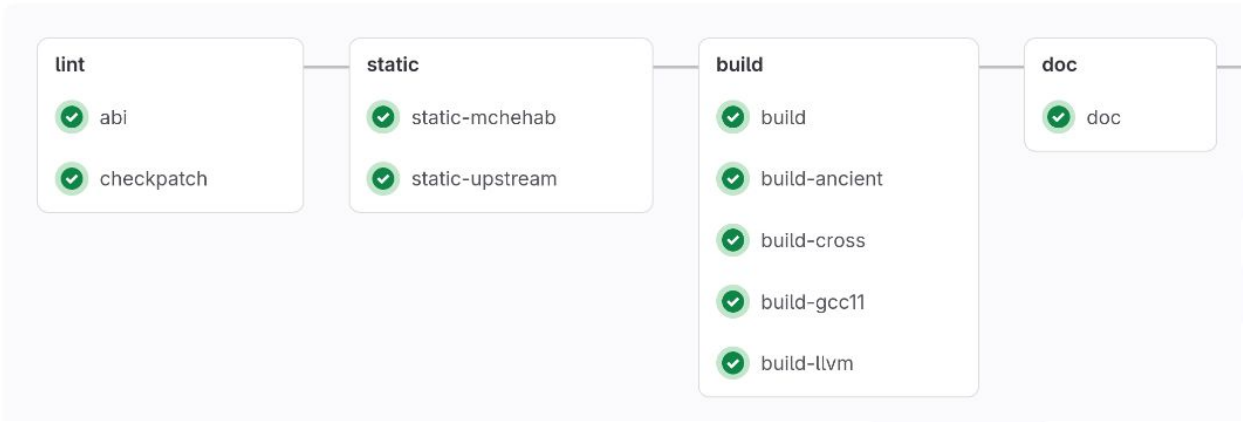
✓ Passed media-sync created pipeline for commit `24147897` 1 week ago, finished 1 week ago

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

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

For [master](#)

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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

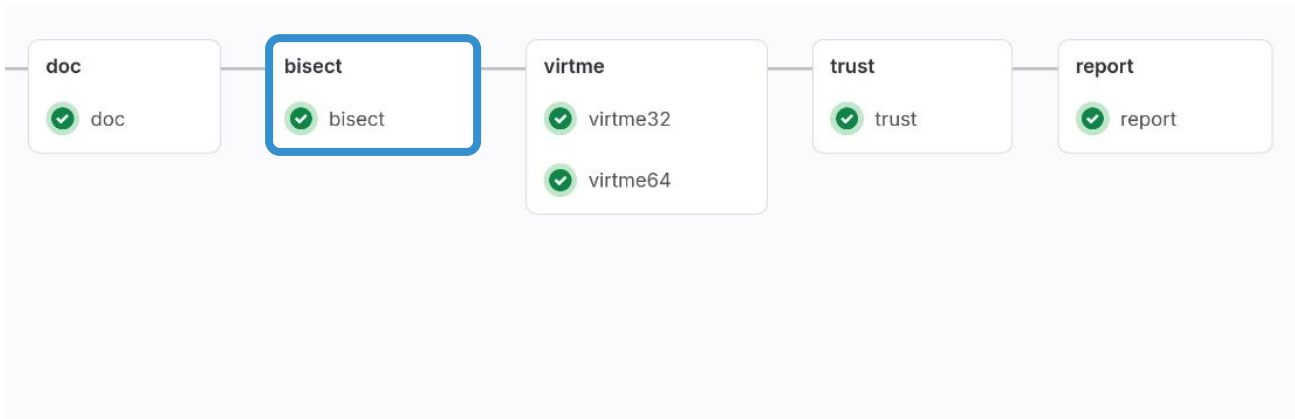
✓ Passed media-sync created pipeline for commit [24147897](#) 1 week ago, finished 1 week ago

For [master](#)

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Group jobs by





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

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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

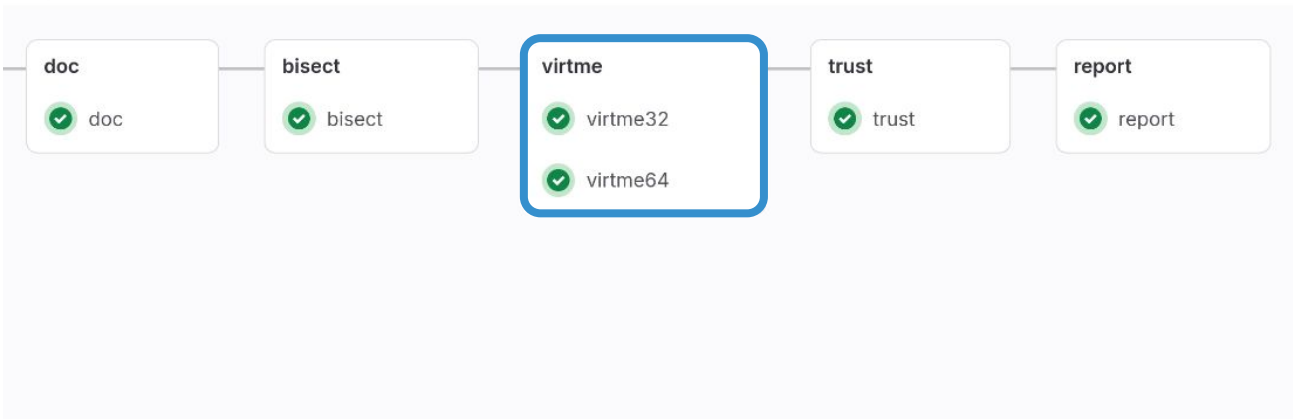
✓ Passed media-sync created pipeline for commit [24147897](#) 1 week ago, finished 1 week ago

For [master](#)

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Group jobs by





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

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Group jobs by

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

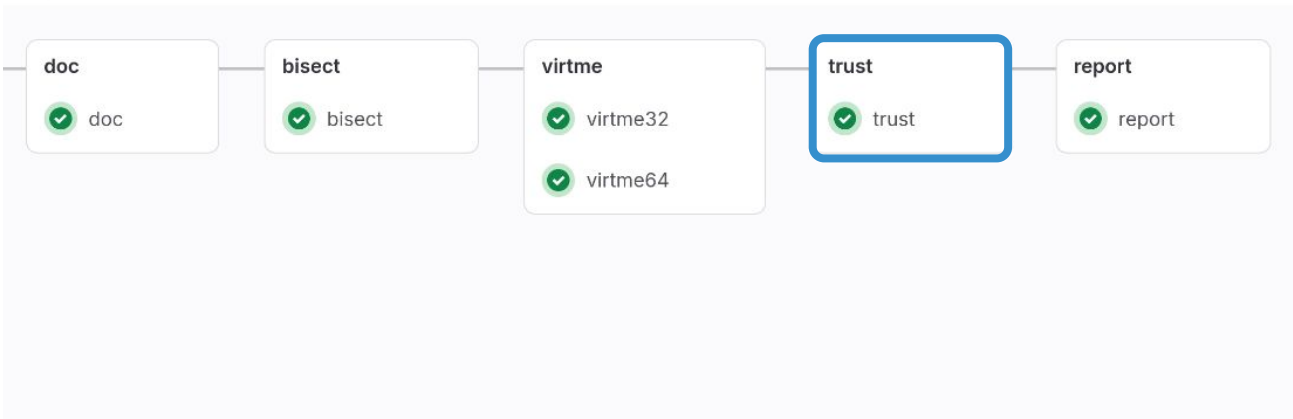
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Pipeline Needs Jobs 15 Tests 72

Group jobs by Stage Job dependencies

doc

Passed 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

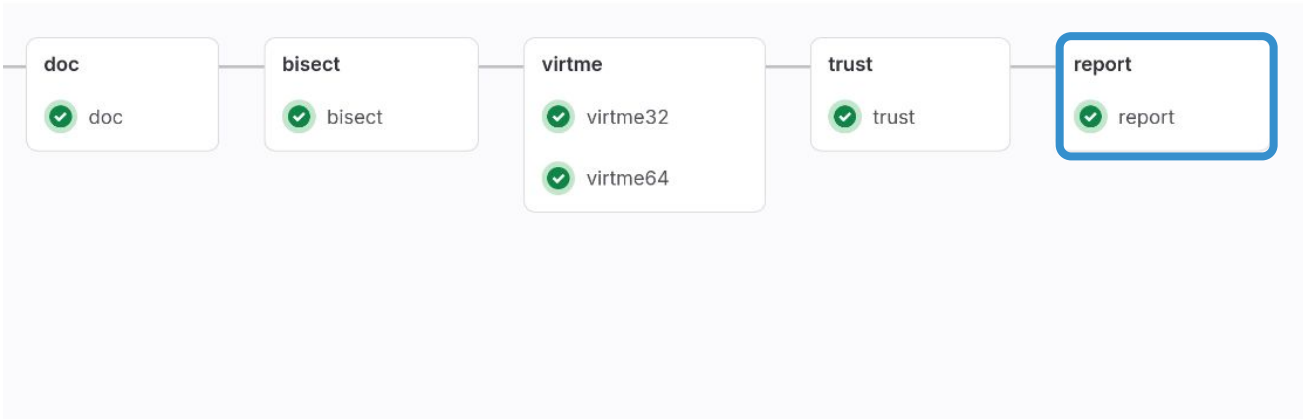
✓ Passed media-sync created pipeline for commit [24147897](#) 1 week ago, finished 1 week ago

For [master](#)

15 jobs 68 minutes 44 seconds, queued for 121 seconds

Pipeline Needs Jobs 15 Tests 72

Group jobs by





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

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-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 only, not merge requests



LINUX TV Patchwork Linux Media kernel patches ☰

Show patches with: State = Action Required

Planning to submit results 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 101525 diff index series

Message ID 20240506-cocci-locks-v1

State New

Delegated to: Sean Young

Headers show

Series [media: Fix some cocci locks warnings](#) | expand

Planning to submit results 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

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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

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

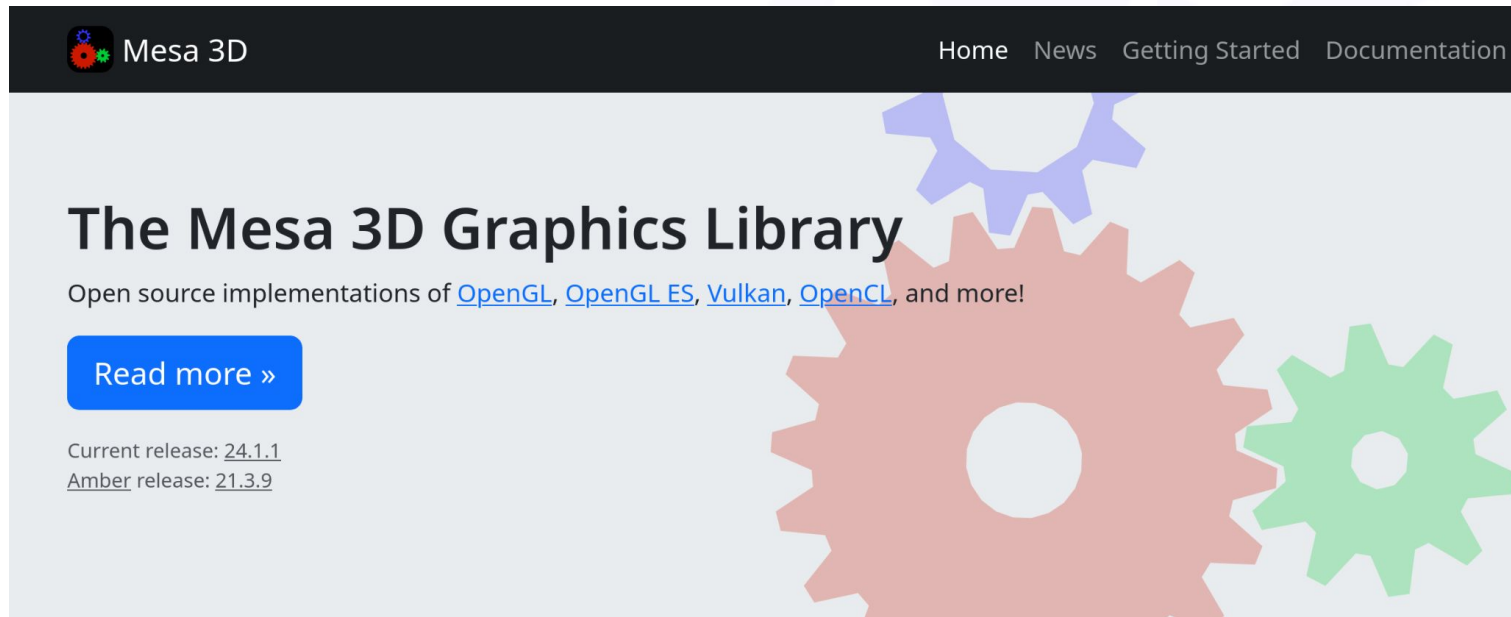
Which will be the entrypoint for those reports

mediaci/HTML_report success [Link](#)



Media-CI report content including Gitlab Link, Job triggered by, Branch Head, Commit Author, Commit, and Subject.

Mesa3D



Mesa 3D

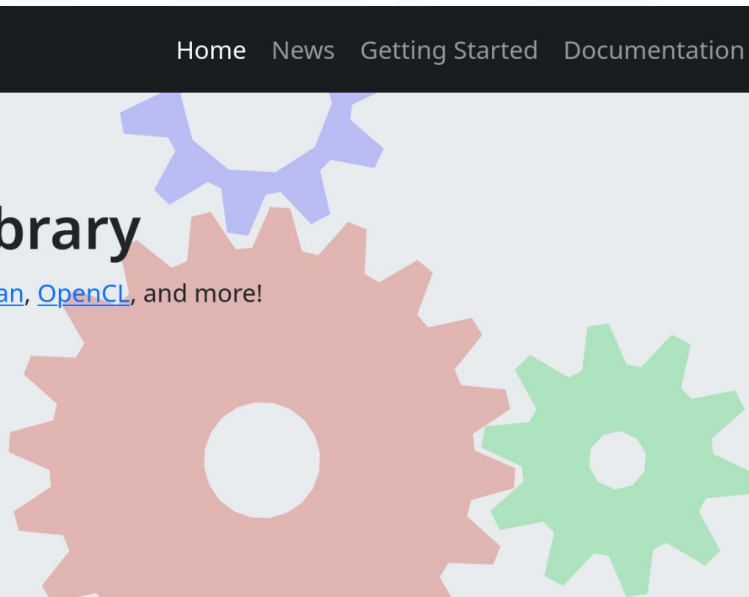
Home News Getting Started Documentation

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





[Link to the past](#)

- LPC 2018 - Overview
- Call for Proposals
- Overview Schedule
- Detailed Schedule
- Etherpads
- Attend
- Lunch Map
- LPC blog
- Anti-harassment policy
- FAQs
- Contact

Migrating to Gitlab



15 Nov 2018, 14:00
45m
Pavillion/Ballroom-AB (Sheraton Vancouver Wall Center)



LPC Main Track

Speaker

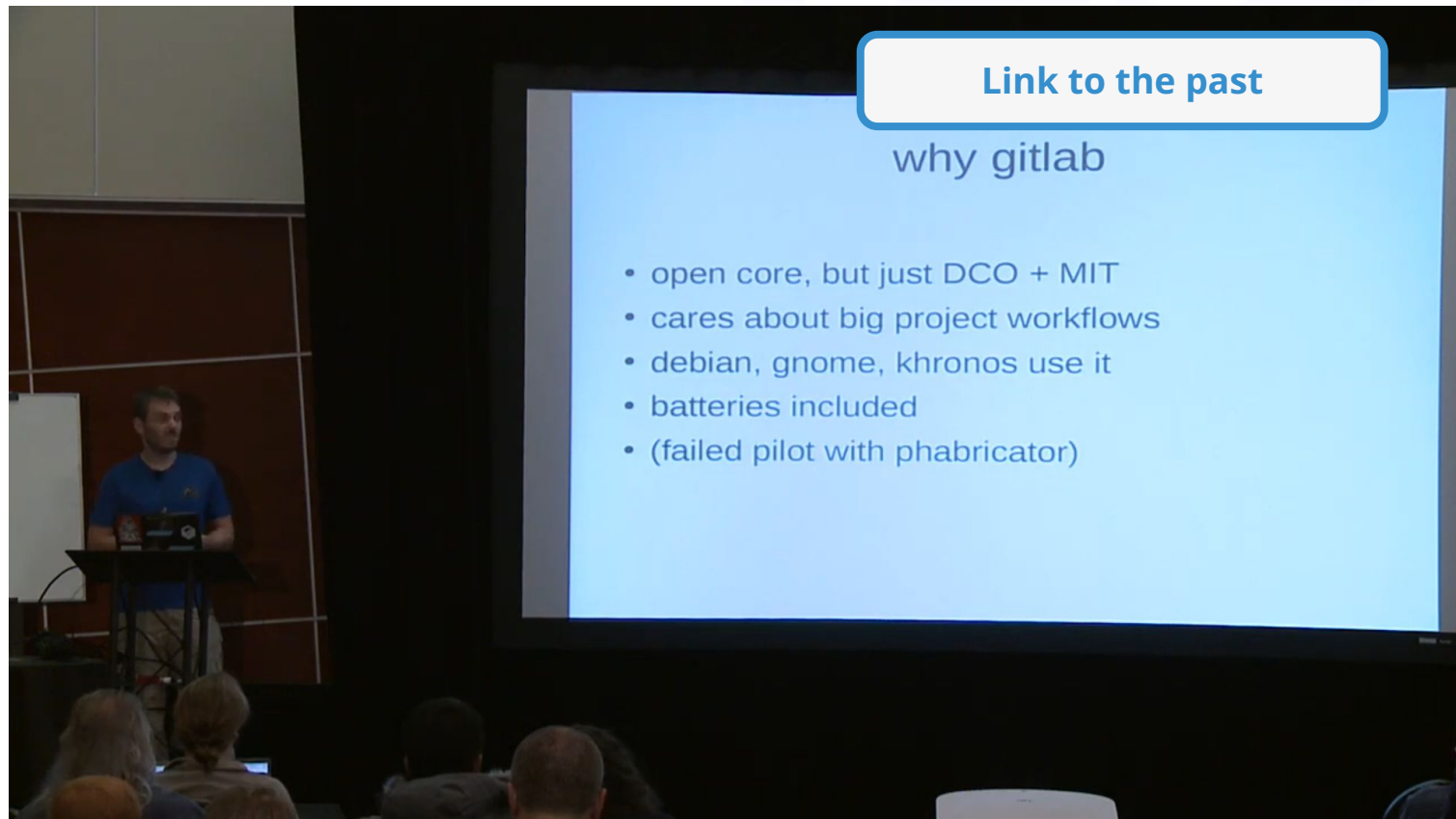
Daniel Vetter (Intel)

Description

Over the past few years the graphics subsystem has been spearheading experiments in running things differently: Pre-merge CI wrapped around mailing lists using patchwork, committer model as a form of group maintainership on steroids, and other things. As a result the graphics people have run into some interesting new corner cases of the kernel's "patches carved on stone tablets" process.

On the other hand the freedesktop.org project, which provides all the server infrastructure for the graphics subsystem, is undergoing a big reorganization of how they provide their services. The biggest change is migrating all source hosting over to a gitlab instance.

This talk will go into the why of these changes and detail what is definitely going to change, and what is being looked into more as experiments with open outcomes.



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

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Merged 25,405

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One example

Fix compositor alpha-blending with EGL on X11

Code ▾

Robert Mader requested to merge [rmdader/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

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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

- David Heidelberg changed `mesa:main` 3:49 PM 1 month ago

- 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 ▾



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

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One example

Fix compositor alpha-blending with EGL on X11

Code ▾



Merged

to main 3 years ago

2 unreso

Overview

Pipelines 81

« Expand

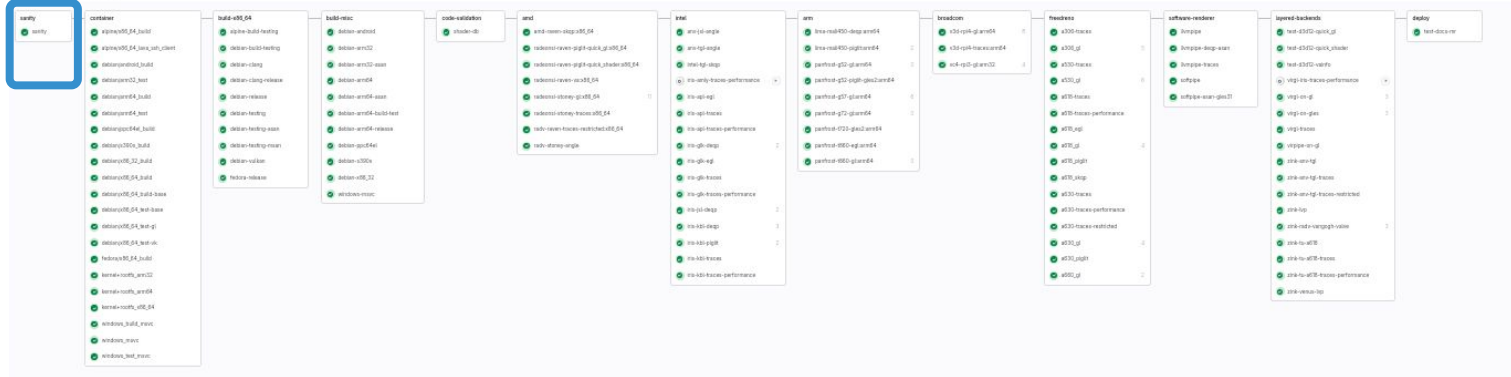
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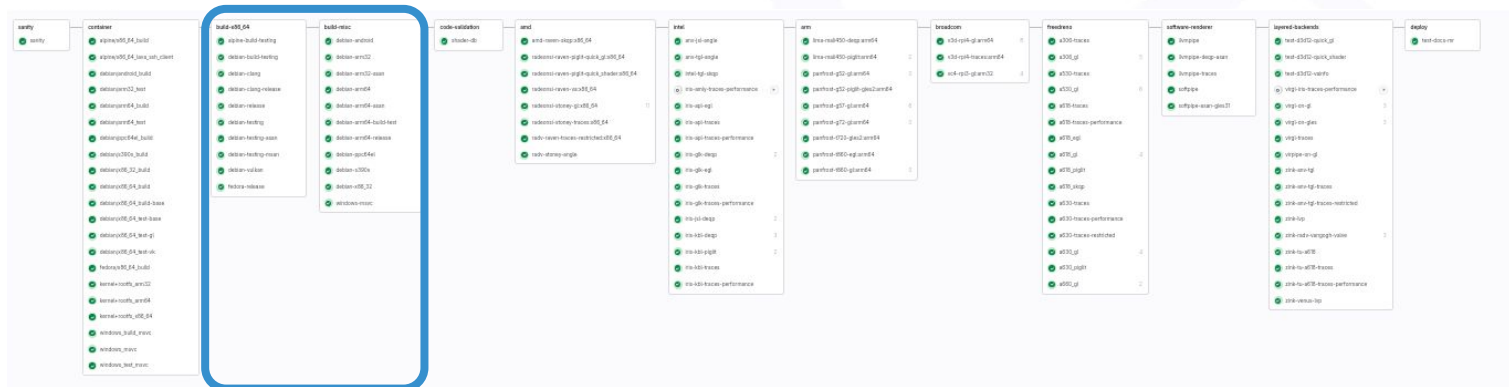
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Check if pipeline can run



Build test suites



Run tests in devices

The image shows a detailed view of a GitLab CI pipeline configuration for Mesa3D. The pipeline is organized into several stages, each containing specific jobs:

- sanity**: A single job named 'sanity'.
- container**: Multiple jobs for building Mesa3D on various architectures including x86_64, armv7, and armv8.
- build-x86_64**: Jobs for building Mesa3D on x86_64 hardware, including 'build', 'release', and 'test'.
- build-misc**: Jobs for building Mesa3D on various hardware configurations like 'amd', 'armv7', and 'armv8'.
- code-validation**: A job named 'check-ci'.
- amd**: Jobs for testing Mesa3D on AMD hardware, including 'amd-amd-radeon-rx580', 'amd-amd-radeon-rx590', and 'amd-amd-radeon-rx680'.
- arm**: Jobs for testing Mesa3D on ARM hardware, including 'arm-qualcomm-sdm845', 'arm-qualcomm-sd845', and 'arm-qualcomm-sd845'.
- arm64**: Jobs for testing Mesa3D on ARM64 hardware, including 'arm64-qualcomm-sd845', 'arm64-qualcomm-sd845', and 'arm64-qualcomm-sd845'.
- broadcom**: Jobs for testing Mesa3D on Broadcom hardware, including 'broadcom-bcm2708', 'broadcom-bcm2708', and 'broadcom-bcm2708'.
- freedesktop**: Jobs for testing Mesa3D on Freedesktop hardware, including 'freedesktop-amd-radeon-rx580', 'freedesktop-amd-radeon-rx590', and 'freedesktop-amd-radeon-rx680'.
- software-renderer**: Jobs for testing Mesa3D on software rendering, including 'software-renderer', 'software-renderer', and 'software-renderer'.
- ignored-backends**: Jobs for testing Mesa3D on ignored backends, including 'ignored-backends', 'ignored-backends', and 'ignored-backends'.
- dummy**: A final job named 'test-dummy'.

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



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)



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 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.

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](#)

Check out the talk for details

What is DRM-CI

- GitLab-CI pipeline for the DRM subsystem
- Derives from Mesa-CI project
- Released with kernel 6.7
 - Original patch from Tomeu Vizoso
 - Maintained by me
 - Most active contributor: Vignesh Raman
- Used mostly by maintainers to validate patches



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Wait...

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Does that mean...

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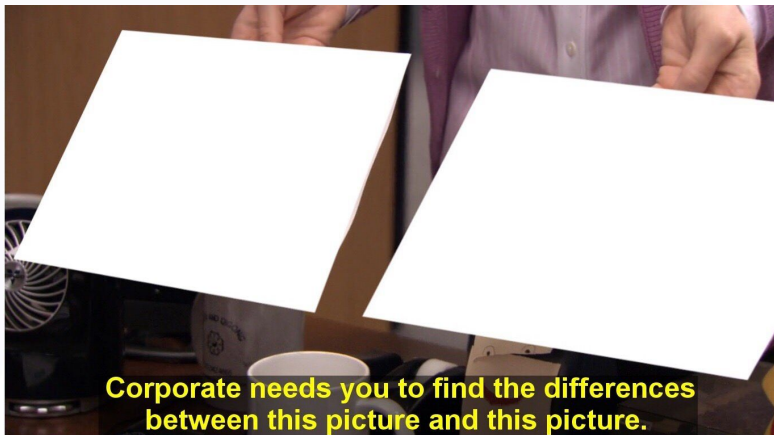
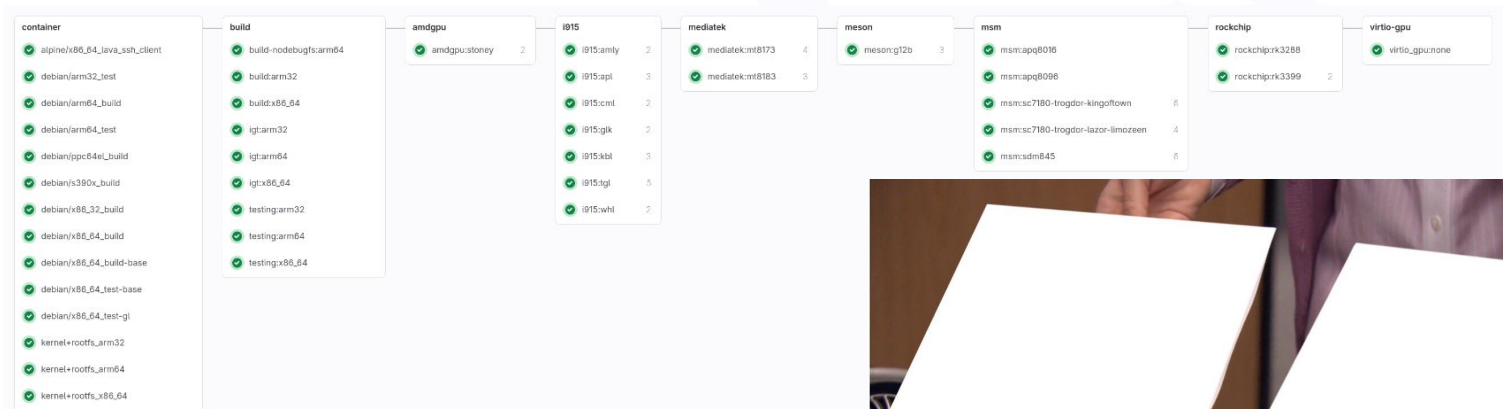
14



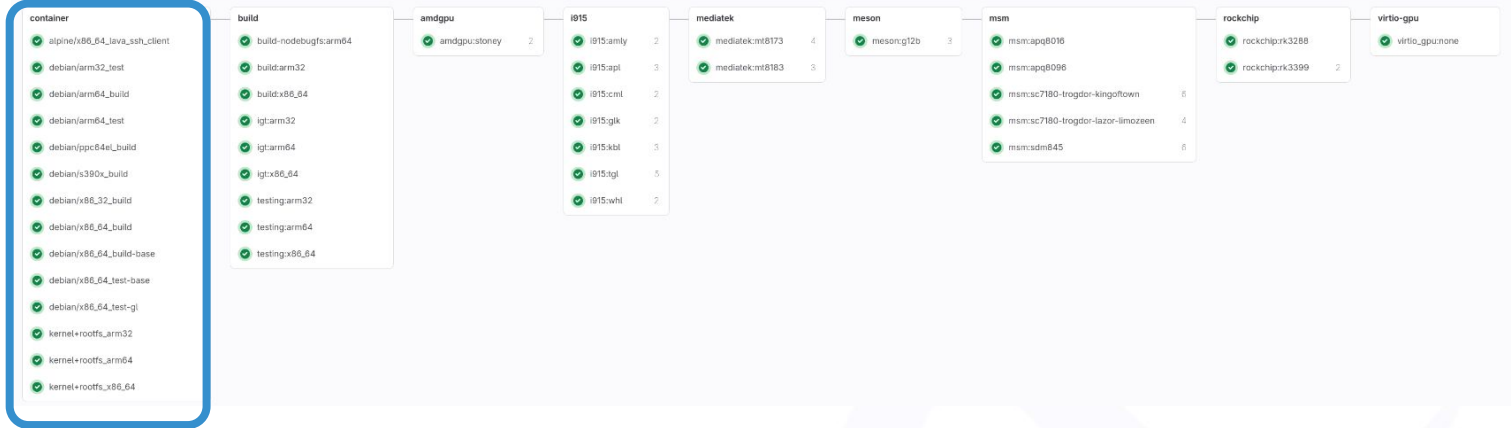
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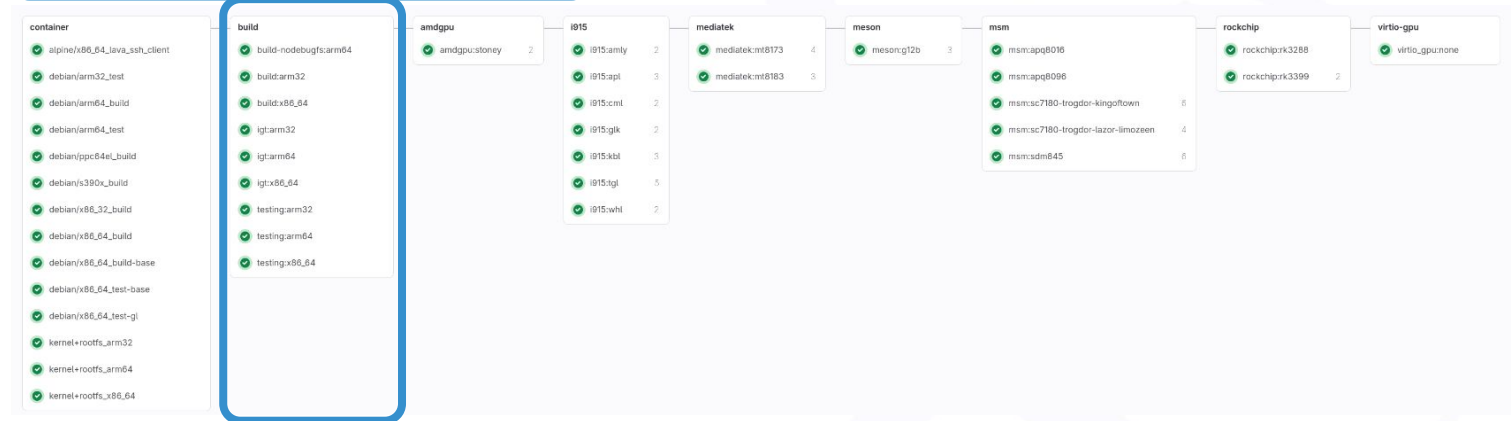
let's compare them



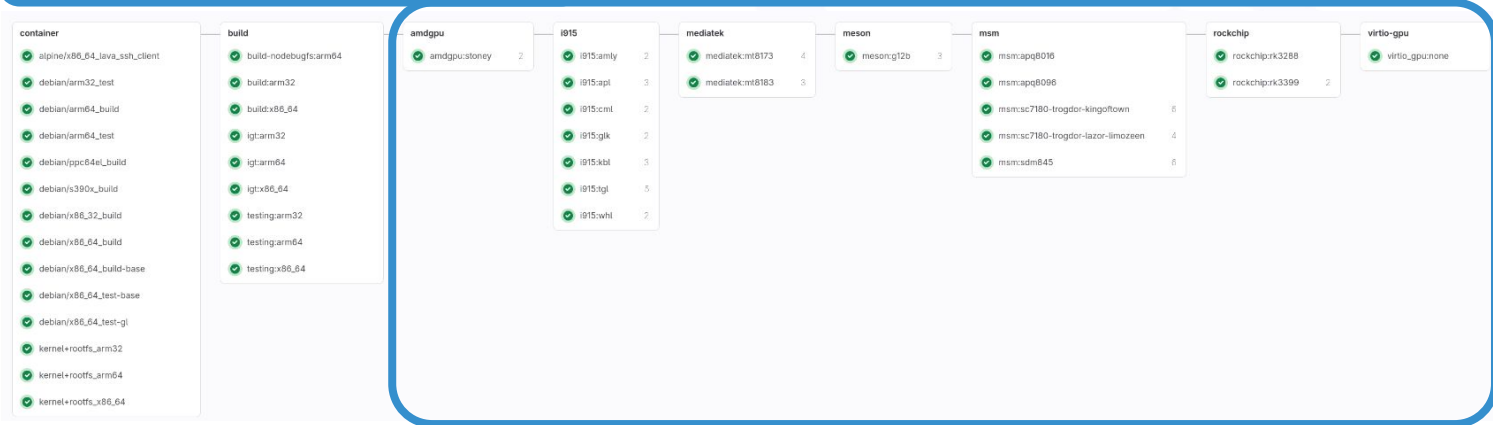
Prepare builders



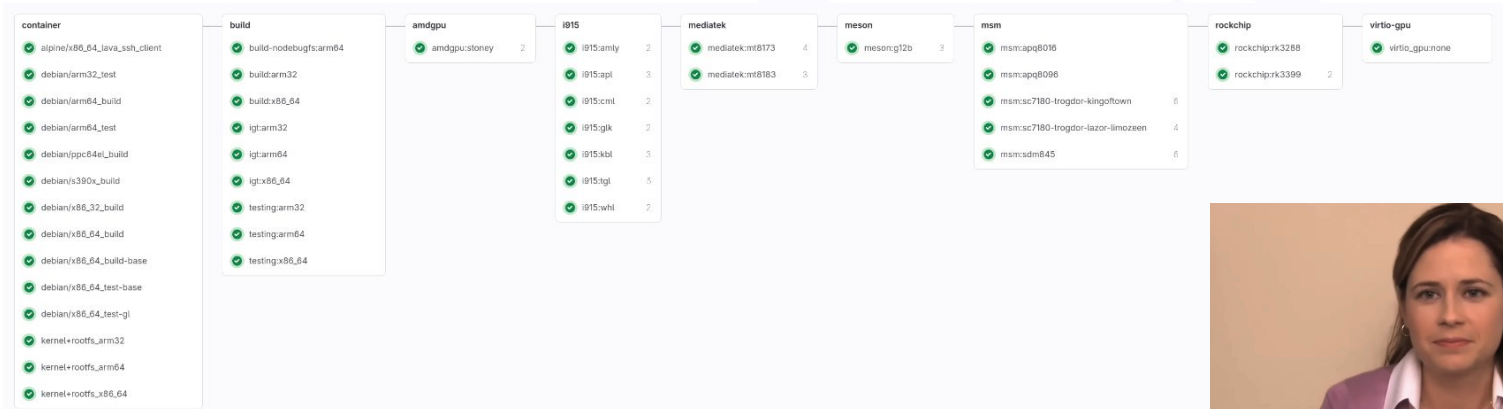
Build test suites



Run tests in devices



They *paint* the same picture





how to drm ci

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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

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collabora.com

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

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next-20240613

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- [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](#)

It's already documented

```
# 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

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[Storage interfaces](#)

[Other subsystems](#)

[Locking](#)

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1, 2, 3, Go!

next-20240613

Quick search

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[How to update test expectations](#)

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

📁 drm / kernel


1. Plant a tree in 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... ⋮

Dave Airlie authored 2 days ago

1ddaaa24

📄

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 History Find file Code

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

Dave Airlie authored 2 days ago

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README

LICENSE

Tales Aparecida / kernel

That could mean forking the DRM tree

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

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

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[+ 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

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drm / CI-OK

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C CI-OK

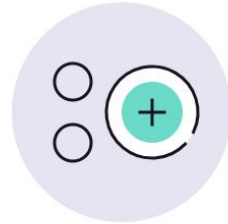
Subgroups and projects

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 the maintainers

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

But first the community needs to trust you

Filter members Max role






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drm / CI-OK / Group members

Members 158 Groups 1

That might take some time

Filter members Max role

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Maintainer-oriented

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NORTH AMERICA

There are more caveats...

DRM-CI: limitations

- Specific to DRM subsystem
- Only works on Freedesktop GitLab instance
- Shared runners 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!



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So let's keep going!

DRM-CI: limitations

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Proposed new solution: KCI-GITLAB!

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OPEN SOURCE
SUMMIT
AMERICA

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Mainline

CI for everyone

What is KCI-GITLAB

- Patchset submitted to the community on Feb 28th 2024
Ref: [PATCH 0/3] kci-gitlab: Introducing GitLab-CI Pipeline for Kernel Testing
- Developed together with the KernelCI community
- Allows tests to be executed on any GitLab instance
- More generic solution
- Allows customizations (useful for subsystems)



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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

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

Merged 17 Approved updated 2 hours ago

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

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

!4304 · created 3 weeks ago by Steve Best

Merged 9 Approved updated 20 hours ago

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

kernel: watch_queue: copy user-array safely

!4302 · created 3 weeks ago by Steve Best

Merged 9 Approved updated 20 hours ago

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

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

!4292 · created 3 weeks ago by Waiman Long

Merged 9 Approved updated 20 hours ago

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

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:ppc64 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

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0 Assignees Edit
None - assign yourself

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Reviewer Edit
Davide Caratti

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d219d2a9a92e ("overflow: Allow mixed type arguments")
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```

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:nc64
- Subsystem:ptp

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 OK** label 1 month ago
- CKI KWF Bot added **Signoff OK** 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_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

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 SHEL-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_the19_compat_merge_request [Trigger job](#)
 - ✓ c9s_rt_merge_request [Trigger job](#)

Downstream

- ✓ cki-trusted-contr... #1296113930 [Multi-project](#)
- ✓ cki-internal-cont... #1296113925 [Multi-project](#)
- ✓ cki-trusted-contr... #1296113927 [Multi-project](#)
- ✗ cki-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

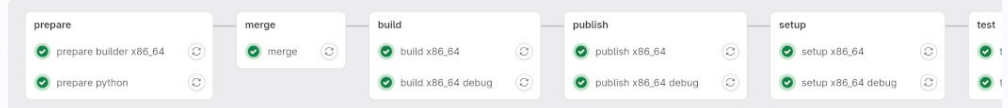
Related merge request 14235 to merge RHEL-16218 into main

[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 39x15e55 3 weeks ago, finished 3 weeks ago

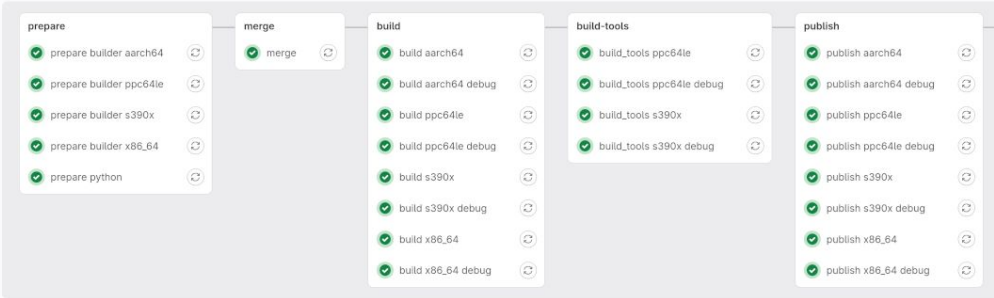
Related merge request 14235 to merge RHEL-36218 into aa:in

[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_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

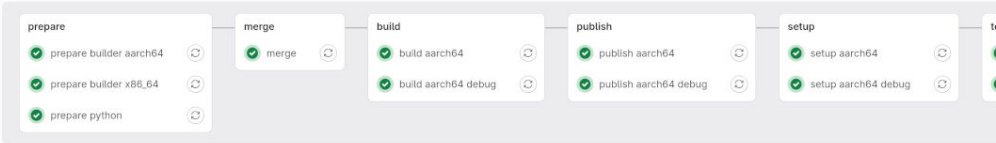
Related merge request 14235 to merge RHEL-36218 into main

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

Pipeline Needs Jobs 5 Tests 0

- test
 - ✓ c98_64k_merge_request [Trigger job](#)
 - ✗ c98_automotive_check_merge_request [Trigger job](#)
 - ✓ c98_merge_request [Trigger job](#)
 - ✓ c98_rhel9_compat_merge_request [Trigger job](#)
 - ✓ c98_rt_merge_request [Trigger job](#)

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

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- ✗ 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](#)

prepare

- ✓ prepare builder aarch64
- ✓ prepare builder x86_64
- ✓ prepare python

merge

- ✓ merge

build

- ✓ build aarch64
- ✓ build aarch64 debug
- ✓ build x86_64
- ✓ build x86_64 debug

publish

- ✓ publish aarch64
- ✓ publish aarch64 debug
- ✓ publish x86_64
- ✓ publish x86_64 debug

setup

- ✓ setup aarch64
- ✓ setup aarch64 debug
- ✓ setup x86_64
- ✓ setup x86_64 debug

... 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

✓ cki-trusted-contr...
#1296113930
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
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- ✓ build ppc64le debug
- ✓ build s390x
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- ✓ build x86_64 debug

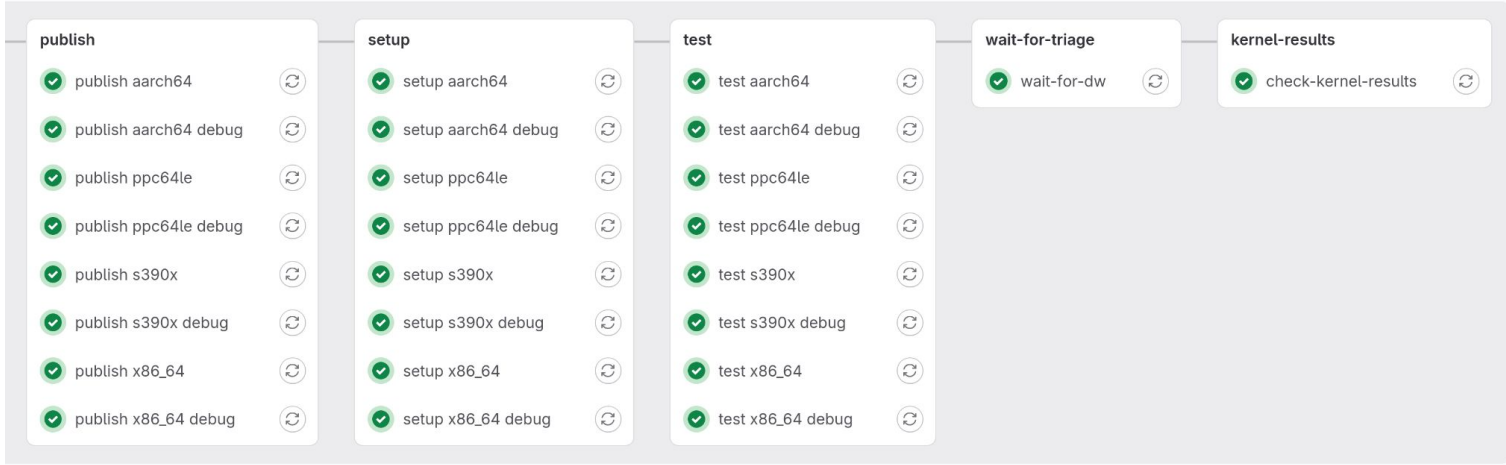
build-tools

- ✓ build_tools ppc64le
- ✓ build_tools ppc64le debug
- ✓ build_tools s390x
- ✓ build_tools s390x debug

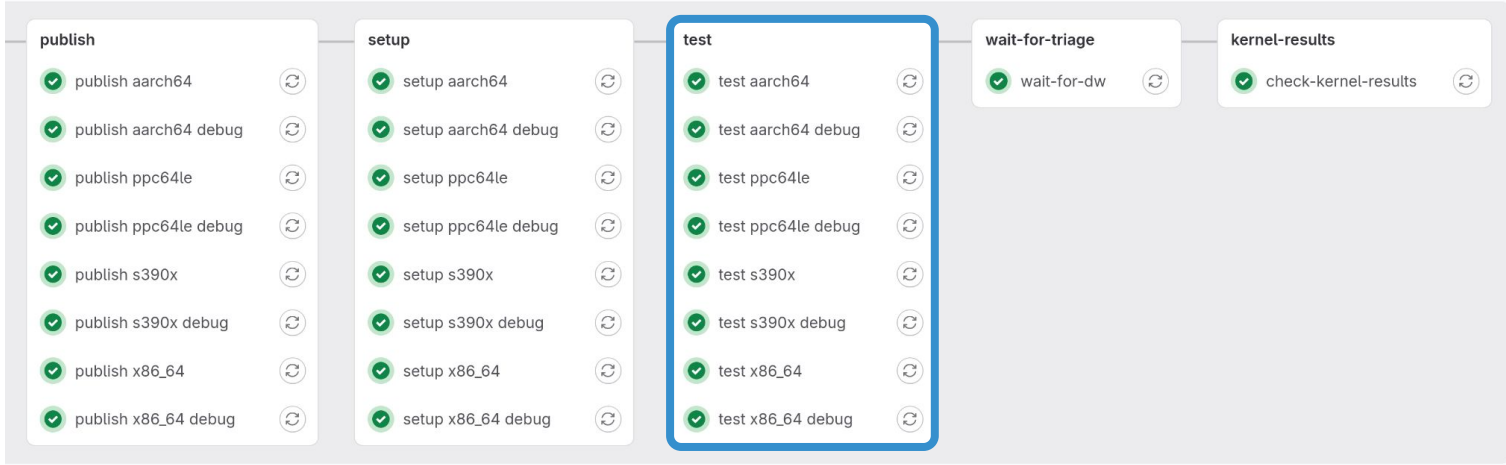
publish

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

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 1 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 ○ 1 🔥 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 ○ 1 🔥 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

Only the applicable ones

Checkout redhat:1296113930

Actions

CHECKOUT STATUS
Valid

Checkout ID: redhat:1296113930

Tree: c9s
Commit Hash: 39415e551eb0a69bce8df08c8d97e
NVR: kernel-5.14.0-451.4235_1296113921.el9

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 ioclicmd=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***

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