### Focus on exciting development, delegate tedious dependencies update

#### By Sergi, from the Gfx CI team







COLLABORA

#### • Update revision

- Uprev {{dependency}} in {{target}}

• There is a wiki:

fd.o / gfx-ci / ci-uprev

pairs

 virglrenderer mesa mesa apitrace Crosvm deqp kernel (stalled) libva-utils piglit virglrenderer vkd3d vulkan-cts (stalled) Linux-DrmCl mesa



# **Uprev procedure**

- 1. pre: find/prepare candidate revision to update to.
  - Explore the dependency project to find a candidate revision
    - Some projects require extra information (like pipeline of the commit)
    - Some projects require to apply patches to upstream
  - Produce a structure with the necessary information to do an uprev.
- 2. core: uprev.
- 3. post: report.





# **Uprev procedure**

- 1. pre: find/prepare candidate revision to update to.
- 2. core: uprev.
  - The uprev to the target project:
    - commit and
    - launch the test pipeline.
  - Update expectations if required.
- 3. post: report.





# **Uprev procedure**

- 1. pre: find/prepare candidate revision to update to.
- 2. core: uprev.
- 3. post: report.
  - Output of the uprev producing:
    - a *merge request* uprev proposal (new or refresh an existing one) or,
    - an *issue* with the information about what blocked the uprev (new or append).
      - Once a proposal to uprev is possible,

if there was an issue open because it failed in the previous attempts, close the issue.

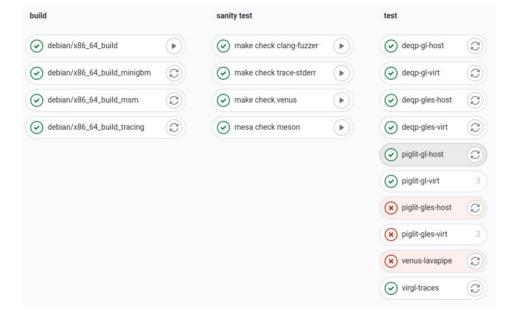




# **Update expectations**

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• Given a pipeline, iterate the testing jobs to get *failures.csv* 



• This can be useful in more general cases than *uprev* 



# **Update expectations**

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• Given a pipeline, iterate the testing jobs to get *failures.csv* 

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(v) windows_ys2019																			

• This can be useful in more general cases than *uprev* 



## **Update expectations**

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• Given a pipeline, iterate the testing jobs to get *failures.csv* 

container	build	amdgpu	i915	mediatek	meson	msm	rockchip	software-driver
@ alpine/x86_64_lava_ssh_client	S build-nodebugfs:arm64	amdgpu:stoney		(x) mediatek:mt8183	(x) meson:g12b	msm:apq8096	(x) rockchip:rk3288	× vkms:none
S debian/arm32_test	S build:arm32		( i915:apl 12 )			( msm:sc7180 2	rockchip:rk3399 3	
ebian/arm64_build	S build:x86_64							
ebian/arm64_test	jgt:arm32							
S debian/ppc64el_build	jgt:arm64							
S debian/s390x_build	⊘ igt:x86_64							
S debian/x86_32_build	testing:arm32							
debian/x86_64_build	esting:arm64							
@ debian/x86_64_build-base	esting:x86_64							
ebian/x86_64_test-base								
@ debian/x86_64_test-gl								
ernel+rootfs_arm32								
ernel+rootfs_arm64								
kernel+rootfs_x86_64								
This		<b>. . . . .</b>						

• This can be useful in more general cases than *uprev* 





- Collate jobs *traces* and *artifacts*
- Dive in a pipeline to collate together the traces and any of the output artifacts
  - Special interest in *results.csv* and *failures.csv*
- Prepare an expectations patch







#### • Collate jobs *traces* and *artifacts*

trace = Collate(namespace='mesa').from\_job(49215221).trace()



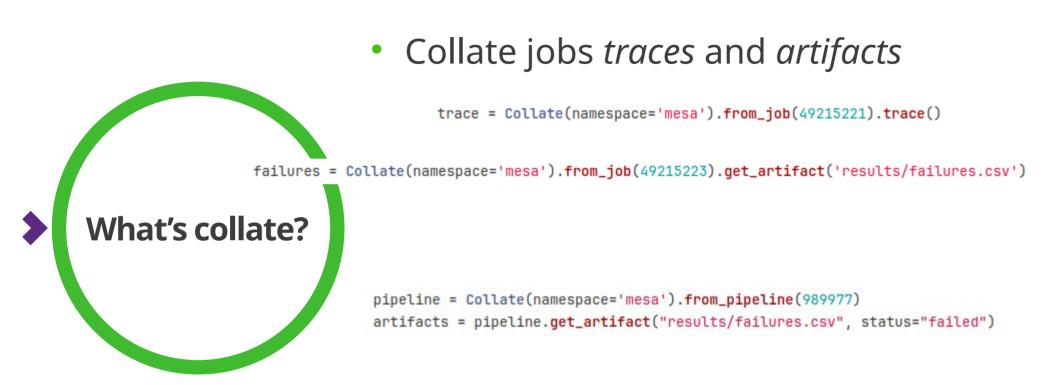


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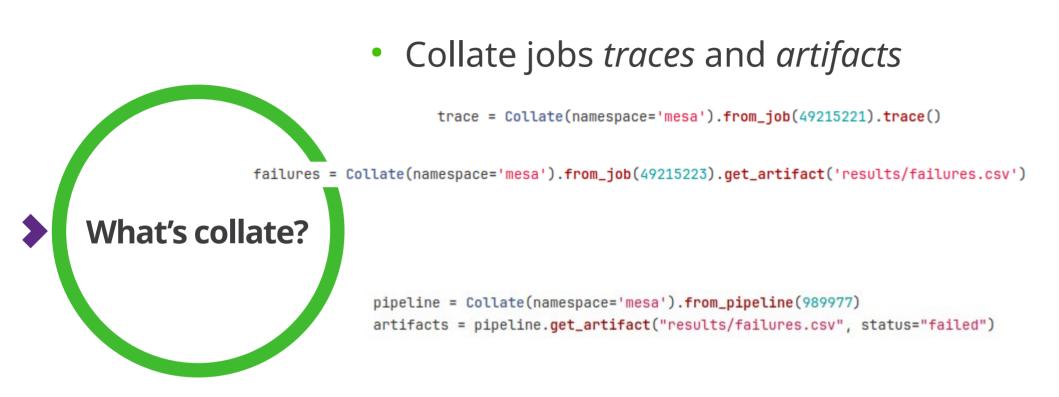












artifacts = pipeline.get\_artifact("results/failures.csv", status="failed", stage=["etnaviv", "freedreno"])





• *Prepare an expectations patch* 









#### • Prepare an expectations patch









#### • Prepare an expectations patch

ci-collate \
--namespace mesa \
--project mesa \
patch \
 --local-clone tmp\_mesa \
 1007236

ci-collate \
--namespace virgl \
--project virglrenderer \
patch \
 --branch-namespace gawin \
 1006538





# What's collate?

#### • Prepare an expectations patch

ci-collate \
--namespace mesa \
--project mesa \
patch \
 --local-clone tmp\_mesa \
 1007236

ci-collate \
--namespace virgl \
--project virglrenderer \
patch \
 --branch-namespace gawin \
 1006538

ci-collate \
--debug \
--namespace helen.fornazier \
--project linux \
patch \
 --local-clone tmp\_linux \
 --branch xfails-test \
 1003730



#### **Open First**





