

Unifying Kernel Test Reporting with KernelCI

DevConf.cz 2021

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KernelCI KCIDB maintainer
DIGImend maintainer (on hiatus)
Electronics and embedded enthusiast

Born in Russia, living in Finland

Open the slides and
click the **links!**



KernelCI Testing systems



...

KernelCI Testing dashboards

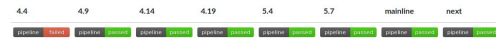
LKFT About LKFT 101 Boards Branches Tests Logs

Test Results

linux-stable-rc-4.4-oe	142 hours ago	17799 passed	879 failed	3052 skipped	View Builds
linux-stable-rc-4.9-oe	142 hours ago	31410 passed	407 failed	3039 skipped	View Builds
linux-stable-rc-4.14-oe	123 hours ago	32747 passed	434 failed	3039 skipped	View Builds
linux-stable-rc-4.19-oe	113 hours ago	42389 passed	424 failed	3039 skipped	View Builds
linux-stable-rc-5.4-oe	113 hours ago	41354 passed	403 failed	3048 skipped	View Builds
linux-stable-rc-5.7-oe	110 hours ago	33009 passed	1502 failed	3137 skipped	View Builds
linux-mainline-oe	13 hours ago	11319 passed	891 failed	3441 skipped	View Builds
linux-next-oe	7 hours ago	14015 passed	1008 failed	3222 skipped	View Builds

LKFT 2.0 Build Status

Our second generation build and continuous integration uses GitLab pipelines and TuxBuild.



LKFT Build Status

The LKFT build uses OpenEmbedded to build a userspace image, along with the kernel, for each board and branch combination under test.



syzbot Linux 4.14 [sign-in](#) | [mailing list](#) | [source](#) | [docs](#)

Open [308] Fixed [100] Invalid [215]

Name	Active	Uptime	Corpus	Coverage	Crashes	Execs	Instances:		Kernel build		syzkaller build	
							Commit	Freshness	Status	Commit	Freshness	Status
ci2-linux-4.14	now	2621h	53390	1099200	237	1354254	14858326	104	56613352	3081h	fail10s	

open (508):

Title	Repro	Bisected	Count	Last	Reported
WARNING in rtl_dellink	C		1	4153h	4152h
possible deadlock in proc_pid_personality			1	21105h	21104h
syzkaller: make target failed: failed to run ["make" "tar...]			3	1491h	2489h
INFO: task hung in _input_unregister_device			1	3481h	3482h
unregister_netdevice: waiting for DVE to become free (2)			1	3427h	3422h
INFO: task hung in do_task_dead			1	5415h	5415h
INFO: trying to register non-static key in done (2)			1	5422h	5422h
INFO: trying to register non-static key in shhd_char_rei...	C		1	6622h	6622h
possible deadlock in proc_pid_syscall			3	1452h	2424h
possible deadlock in proc_pid_stack	C		3	5019h	7410h
INFO: trying to register non-static key in l2cap_chan_cl...	592		1	7420h	2420h
BUG: corrupted list in bt_accept_unlink			1	8481h	8480h
KASAN: use-after-free Read in hci_get_auth_info	592		1	8494h	8492h
inconsistent lock state in sock_timeout			1	8412h	8411h
INFO: rcu detected stall in tv_timer_handler			1	9410h	5410h
general protection fault in memuse work	592		1	9410h	5410h

Home Jobs Builds Tests SoCs Boots KCIDB Info

Available Test Results

The results shown here cover the last 14 days of available data starting from **Mon, 17 Aug 2020** (time is UTC based).

25 Tests per page

Tree	Branch	Kernel	Test Plan	Test Results
mainline	master	v5.8-13502-gb07175d041ba	usb	54 34 4 16
rt-stable	v4.14-rt	v4.14.193-r192	baseline-rfcs	1,589 1,502 22 59
mainline	master	v5.8-13651-gd84835b118ed	baseline	1,097 774 20 303
rt-stable	v4.14-rt	v4.14.193-r192	baseline	1,609 1,499 24 80
mainline	master	v5.8-13660-g4bc093e21d3	baseline	1,588 1,482 26 73
mainline	master	v5.8-13502-gb07175d041ba	sleep	34 12 2 20
mainline	master	v5.8-13414-e7171eead2759a	baseline	4,674 4,526 94 77

Go to pipeline #

Build

All / Revision / Build

Build status: **Passed**

Build ID: reohat956956

Valid: Yes

Origin: reohat

Start Time: Aug 17, 2020, 2:26 a.m.

Architecture: ppc64le

Command: make -j30 INSTALL_MOD_STRIP=1 largz-pkg

Config Name: fedora

Config URL: https://3.us-east-2.amazonaws.com/ci-artifacts/datawarehouse/2020/08/17/612139/build_ppc64le_reohat956956/config

Log URL: https://3.us-east-2.amazonaws.com/ci-artifacts/datawarehouse/2020/08/17/612139/build_ppc64le_reohat956956/build.log

Output Files

MD1.01.0rg

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ACTIVITY SUMMARY

The following statistics are from the past 30 days:

32 participants 100 discussions

RECENTLY ACTIVE DISCUSSIONS

- #1 [LRR] #42119007: kmsg-usb-4-lmaul_spl_maxpacket Mon Aug 17, 1:04 p.m.
- #2 [part para] #430605: parity-tests.Parse_event_definition_attrns.fail Mon Aug 17, 12:52 p.m.
- #3 [mm] #430404: WARNING:at_mm_mremcontrol.c:mm_mcgoup_alloc Sat Aug 15, 12:45 a.m.
- #4 [fs] #44645a3b: canonical_address_of#4 Sat Aug 15, 11:08 a.m.
- #5 [x86-entry] #26c68927: hp_ptrace08.fail Sat Aug 15, 4:42 a.m.

MOST POPULAR DISCUSSIONS

No vote has been cast this month yet.

MOST ACTIVE DISCUSSIONS

- #1 [x86-entry] #26c68927: hp_ptrace08.fail Sat Aug 15, 4:42 a.m.
- #2 [x86] #461: 1567c0346: vm-scalability:median -15.9% regression Thu Jul 23, 7:14 p.m.
- #3 [M] #610c27e: hp_fx_08.fail Fri Aug 7, 2:52 p.m.
- #4 [x86] #46104a: sh77: jobs-per-min -31.4% regression Wed Jul 22, 6:27 p.m.
- #5 [x86] #46104a: sh77: jobs-per-min -43.3% regression Fri Aug 7, 7:16 p.m.



KernelCI Testing reports

Results from Linaro's test farm.
No regressions on arm64, arm, x86_64, and i386.

Summary

```
kernel: 5.7.12-rc3  
git repo: https://git.kernel.org/pub/scm/linux/kernel/git/stable/linux-stable-rc.git  
git branch: linux-5.7.y  
git commit: d822baf616c0e960b0a37d7f71d921a92226  
git describe: v5.7.12-312-gd3223a8af6d  
Test details: https://qa-reports.linaro.org/ikftr/linux-stable-rc-5.7-e/ builds/5.7.12-312-gd3223a8af6d  
No regressions (compared to build v5.7.12)  
No fixes (compared to build v5.7.12)
```

Run 54339 total tests in the following environments and test suites.

```
Environments  
-----  
- dragonboard-410c  
- hi3798-hikey  
- i386  
- i386-r2  
- juno-r2-compact  
- juno-r2-kasan  
- nxp-ls2088  
- qemu_arm  
- qemu_arm64  
- qemu_i386  
- qemu_x86_64  
- x15  
- x86  
- x86-kasan
```

Test Suites

KMSAN: kernel-usb-infileok in hif_usb_send

[\[Date Prev\]](#) [\[Date Next\]](#) [\[Thread Prev\]](#) [\[Thread Next\]](#) [\[Date Index\]](#) [\[Thread Index\]](#)

- To: glider@xxxxxxxxx, grejgh@xxxxxxxxxxxxxxxxx, Ingrassia@xxxxxxxxxxxxxxxx, linux-kernel@xxxx
- Subject: KMSAN: kernel-usb-infileok in hif_usb_send
- From: syzbot <syzbot+f83a1df1ed4f67e8d8ad@xxxxxxxxxxxxxxxxxxxxxxxxx>
- Date: Tue, 11 Aug 2020 10:06:18 -0700

Hello,

syzbot found the following issue on:

```
HEAD commit: c80856d1 wip: changed copy_from_user where instrumented  
git tree: https://github.com/google/asan.git main*  
console output: https://syzkaller.appspot.com/view_test.cgi?id=24453-08000  
kernel config: https://syzkaller.appspot.com/view_config.cgi?id=5f99924f  
debugboard link: https://syzkaller.appspot.com/view_test_board.cgi?id=5f99924f  
compiler: clang version 10.0.0 (https://github.com/llvm/llvm-project/commit/c24431568b245c81f72c172b6ea3918e68f)  
userspace arch: i386
```

Unfortunately, I don't have any reproducer for this issue yet.

IMPORTANT: if you fix the issue, please add the following tag to the commit:

Reported-by: syzbot+f83a1df1ed4f67e8d8ad@xxxxxxxxxxxxxxxxxxxxxxxxx

usb 4-l: ath9k_htc: Transferred FW: ath9k_htc/HC_9271-1.4.0.fw, size: 51008

```
-----  
BUG: KMSAN: kernel-usb-infileok in kasan_handle_urb->8x40 mem/asan/kasan_books.c:207  
CPU: 1 PID: 1392 Comm: hawker/718 Not tainted 5.8.0-rc5-syzkaller #0  
Hardware name: Google Google Compute Engine/Google Compute Engine, BIOS Google 01/01/2011  
Memory: events request, firmware_work_func  
Call Trace:
```

stable-rc/linux-4.9.y build: 197 builds: 1 failed, 196 passed, 4 warnings (v4.9.232)

kernel.org bot [hot](#) at [kernel.org](#)

Sat Aug 1 08:24:58 UTC 2020

- Previous message: [\[PATCH stable\] MIPS: Loongson: Introduce and use loongson_llsc_mb\(\)](#)
- Next message: [stable-rc/linux-4.9.y build: 197 builds: 1 failed, 196 passed, 4 warnings \(v4.9.232\)](#)
- Messages sorted by: [\[date\]](#) [\[thread\]](#) [\[subject\]](#) [\[author\]](#)

stable-rc/linux-4.9.y build: 197 builds: 1 failed, 196 passed, 4 warnings (v4.9.232)

Full Build summary: <https://kernel.org/build/stable-rc/branch/linux-4.9.y/kernel/v4.9.232/>

```
Tree: stable-rc  
Branch: linux-4.9.y  
Git describe: v4.9.232  
Git commit: 80654120e49293bd2a7b08e1c58d01abe13b  
Git URL: https://git.kernel.org/pub/scm/linux/kernel/git/stable/linux-stable-rc.git  
mailV: 6 unique architectures
```

Build Failure Detected:

mips: 32r2el defconfig: (gcc-8) FAIL

Warnings Detected:

arc:

PASS: Test report for kernel 5.7.12-3ff3d4f.cki (stable-queue)

CKI Project [ckj-project](#) at [redhat.com](#)

Tue Aug 4 12:35:15 UTC 2020

- Previous message: [fixing 4.14-stable's broken DM cache writethrough support \[was: Re: \(resend\) PATCH v3: \(linux-4.14.y\) dm cache: submit writethrough writes in parallel to origin and cache\]](#)
- Next message: [stable-rc/linux-4.9.y build: 199 builds: 1 failed, 189 passed, 2 errors, 13 warnings \(v4.4.232-30-g52247e88ebe\)](#)
- Messages sorted by: [\[date\]](#) [\[thread\]](#) [\[subject\]](#) [\[author\]](#)

Hello,

We ran automated tests on a recent commit from this kernel tree:

```
Kernel repo: https://git.kernel.org/pub/scm/linux/kernel/git/stable/linux-stable-rc.git  
Commit: 3ff3d4f4385e - x86/8259: Use prints_deferred() to prevent deadlock
```

The results of these automated tests are provided below.

```
Overall result: PASSED  
Merge: OK  
Compile: OK  
Tests: OK
```

All kernel binaries, config files, and logs are available for download here:

<https://cki-artifacts.s3.us-east-2.amazonaws.com/index.html?ref=datwarehouse/2020/08/03/61139>

Please reply to this email if you have any questions about the tests that we ran or if you have any suggestions on how to make future tests more effective.



Continuous
Kernel
Integration

Re: [PATCH V4] hwmon: add fan/pwm driver for corsair

[\[Date Prev\]](#) [\[Date Next\]](#) [\[Thread Prev\]](#) [\[Thread Next\]](#) [\[Date Index\]](#) [\[Thread Index\]](#)

- To: Jaap Aarts <jaap.aarts1@xxxxxxxxx>, Jean Delvare <delvare@xxxxxxxxx>, Guenter Roeck <linux@xxxxxx.usb@xxxxxxxxxxxxxxxxx>, Barnabás Pócze <pobrn@xxxxxxxxxxxxxxxxx>
- Subject: Re: [PATCH V4] hwmon: add fan/pwm driver for corsair h100i platinum
- From: Kernel test robot <clk@xxxxxxxxx>
- Date: Sun, 16 Aug 2020 17:34:40 +0800
- Cc: kbuild-all@xxxxxxxxxxx, Jaap Aarts <jaap.aarts1@xxxxxxxxx>
- In-reply-to: <20200815211617.86565-1-jaap.aarts1@gmail.com>
- References: <20200815211617.86565-1-jaap.aarts1@gmail.com>
- User-agent: Mutt/1.10.1 (2018-07-13)

Hi Jaap,

Thank you for the patch! Perhaps something to improve:

```
[auto build test WARNING on hmon/hwmon-next] [auto build test WARNING on v5.8 next-3028024]  
[if your patch is applied to the wrong git tree, kindly drop us a note. And when submitting patch, we suggest to use '-base' as documented in https://git-scm.com/docs/git-format-patch]
```

url: <https://github.com/8day-cy/linux/commit/jaap.aarts/hwmon-add-fan-pwm-driver-for-corsair-h100i-platinum/20200816-88529>
base: <https://git.kernel.org/pub/scm/linux/kernel/git/groeck/linux-staging.git/hwmon-next>
config: nios2-randconfig-c089-3028024 (attached as .config)
compiler: nios2-linux-gcc (GCC) 9.3.0



 KernelCI LPC2019 - CKI hackfest



Red Hat

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Google

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COLLABORA

 **Baylibre**



Microsoft

Linaro




KCIDB

 **GET DATA**



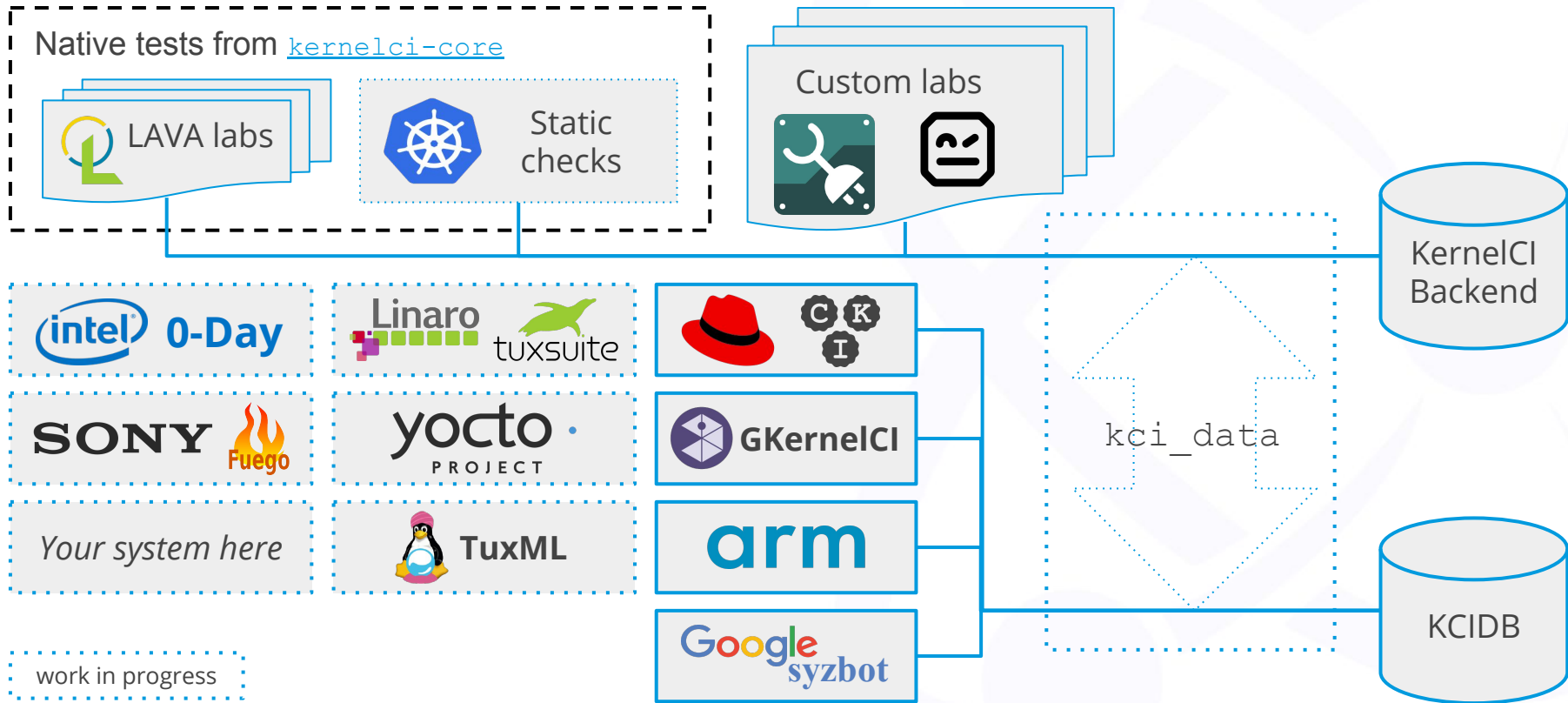


KernelCI Standardizing reporting

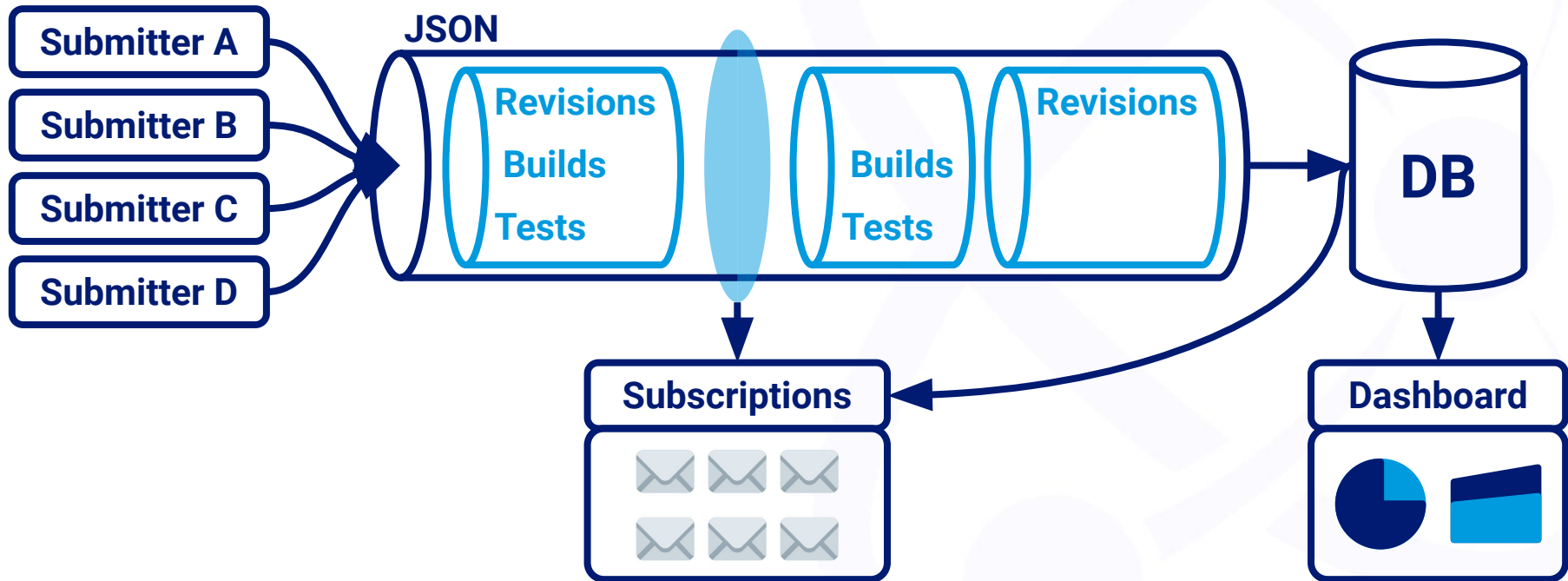
HOW STANDARDS PROLIFERATE:
(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC)



KernelCI The Bigger Picture



KernelCI The Smaller Bigger Picture



KernelCI Command-Line Tools

```
nkondras@ruby:~$ kcidb-  
kcidb-count  
kcidb-db-cleanup  
kcidb-db-complement  
kcidb-db-dump  
kcidb-db-init  
kcidb-db-load  
kcidb-db-query  
kcidb-describe  
kcidb-merge  
kcidb-monitor-spool-wipe  
kcidb-mq-publisher-cleanup  
kcidb-mq-publisher-init  
kcidb-mq-publisher-publish  
kcidb-mq-subscriber-cleanup  
kcidb-mq-subscriber-init  
kcidb-mq-subscriber-pull  
kcidb-notify  
kcidb-query  
kcidb-schema  
kcidb-submit  
kcidb-summarize  
kcidb-tests-validate  
kcidb-upgrade  
kcidb-validate  
nkondras@ruby:~$ kcidb-
```



KernelCI Python 3 Library

```
36
37 class Client:
38     """Kernel CI reporting client"""
39
40     def __init__(self, project_id=None, dataset_name=None, topic_name=None):
41         """
42         Initialize a reporting client
43
44         Args:
45             project_id: ID of the Google Cloud project hosting the report
46                       database infrastructure. Can be None to have
47                       submitting disabled.
48             dataset_name: The name of the Kernel CI dataset to query reports
49                          from. The dataset should be located within the
50                          specified Google Cloud project. Can be None,
51                          to have querying disabled.
52             topic_name: Name of the message queue topic to publish
53                        submissions to. The message queue should be
54                        located within the specified Google Cloud project.
55                        Can be None, to have submitting disabled.
56         """
```



KernelCI Prototype Dashboard

Home

Origin All Repo All

Welcome

Welcome to Linux Kernel CI report database (KCIDB) dashboard. Here you can find testing reports aggregated from multiple CI systems ("origins"). This is a work in progress, and we welcome contributions and participation. See the source code for [the collection system](#), and for [this dashboard](#). Write to kernelci@groups.io if you want to start submitting results from your CI system, or if you want to receive automatic notifications of arriving results.

Revisions

Origin	Repository	Branch	Name	Hash	Discovery time	Status	Builds	Tests
kernelci	https://github.com/kernelci/linux.git	staging-stable	v5.4-11273-g82f6b12ea45f	82f6b12ea45f	2021-02-11 08:22:06.501+00	✓	✗	FAIL
redhat	https://git.kernel.org/pub/scm/linux/kernel/git/axboe/linux-block.git	for-next		9752fa48fe9d	2021-02-11 03:53:41.805+00	✓	✓	PASS
arm	https://git.kernel.org/pub/scm/linux/kernel/git/arm64/linux.git	for-next-core	v5.11-rc4-98-g489ad500eeb3	489ad500eeb3	2021-02-11 03:41:00+00		✓	FAIL
kernelci	https://github.com/kernelci/linux.git	staging-mainline	v5.11-rc7-85-g76ccc66c4c34	76ccc66c4c34	2021-02-11 00:21:32.587+00	✓	✓	FAIL
redhat	https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git	master		6df8fb83301d	2021-02-10 23:58:33.468+00	✓	✓	FAIL
redhat	https://git.kernel.org/pub/scm/linux/kernel/git/davem/net-next.git	master		e4b62cf7559f	2021-02-10 23:53:12.654+00	✓	✓	PASS
redhat	https://git.kernel.org/pub/scm/linux/kernel/git/davem/net-next.git	master		dc0e6056decc	2021-02-10 23:28:38.415+00	✓	✓	PASS
redhat	https://git.kernel.org/pub/scm/linux/kernel/git/davem/net-next.git	master		1fb3ca767529	2021-02-10 23:23:20.936+00	✓	✓	FAIL
redhat	https://git.kernel.org/pub/scm/linux/kernel/git/davem/net-next.git	master		d816f2a9cb5a	2021-02-10 23:18:36.119+00	✓	✓	PASS

1 2 3 4 5 6 7 8 9

Reports

Builds per architecture

KernelCI PoC Reports

Groups o Your Groups v Find or Create a Group q Help i Nikolai Kondrashov v

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kernelci-results-staging@groups.io / Search

" failed for " q Tools o Relevance · Date v 41 - 60 of 869 l r

Tests failed for linux.git:master@228a65d4544a
Below is the summary of testing results Kernel CI database has recorded for this revision so far. See complete and up-to-date report at: <https://staging.kernelci.org:3000/d/revision/revision?orgId=1&v>
By staging.kernelci.org bot · #3566 · Jan 25

Builds failed for linux.git:master@fdb80bdc436
Below is the summary of testing results Kernel CI database has recorded for this revision so far. See complete and up-to-date report at: <https://staging.kernelci.org:3000/d/revision/revision?orgId=1&v>
By staging.kernelci.org bot · #3565 · Jan 24

Tests failed for linux.git:master@e68061375f79
Below is the summary of testing results Kernel CI database has recorded for this revision so far. See complete and up-to-date report at: <https://staging.kernelci.org:3000/d/revision/revision?orgId=1&v>
By staging.kernelci.org bot · #3564 · Jan 24

Tests failed for linux.git:master@... v5.11-rc4-202-gfe75a21824e7 on linus/master
Below is the summary of testing results Kernel CI database has recorded for this revision so far. See complete and up-to-date report at: <https://staging.kernelci.org:3000/d/revision/revision?orgId=1&v>
By staging.kernelci.org bot · #3561 · Jan 24

Builds failed for linux.git:master@e1ae4b0be158
Below is the summary of testing results Kernel CI database has recorded for this revision so far. See complete and up-to-date report at: <https://staging.kernelci.org:3000/d/revision/revision?orgId=1&v>
By staging.kernelci.org bot · #3559 · Jan 23

Builds failed for linux.git:master@fe75a21824e7
Below is the summary of testing results Kernel CI database has recorded for this revision so far. See complete and up-to-date report at: <https://staging.kernelci.org:3000/d/revision/revision?orgId=1&v>
By staging.kernelci.org bot · #3548 · Jan 23

Builds failed for linux.git:master@faba877b3bcc
Below is the summary of testing results Kernel CI database has recorded for this revision so far. See complete and up-to-date report at: <https://staging.kernelci.org:3000/d/revision/revision?orgId=1&v>
By staging.kernelci.org bot · #3547 · Jan 23

Builds failed for linux.git:master@83d09ad4b950
Below is the summary of testing results Kernel CI database has recorded for this revision so far. See complete and up-to-date report at: <https://staging.kernelci.org:3000/d/revision/revision?orgId=1&v>
By staging.kernelci.org bot · #3541 · Jan 22

Builds failed for linux.git:master@36ada2502635
Below is the summary of testing results Kernel CI database has recorded for this revision so far. See complete and up-to-date report at: <https://staging.kernelci.org:3000/d/revision/revision?orgId=1&v>
By staging.kernelci.org bot · #3540 · Jan 22



Search by Revision, Pipeline or Job ID

Anonymous

Revision

Actions ▾

All / Revision

REVISION STATUS **Valid** ✓

BUILD STATUS **Passed** ✓

TEST STATUS **Passed** ✓

Revision ID: `d883e9af56ca3bcce06c8b06bd67965ad7b10f85` [P612214](#) [J957777](#)

Origin: redhat	Tree: stable-queue
Repository URL: https://git.kernel.org/pub/scm/linux/kernel/git/stable/linux-stable-rc.git	Repository Branch: queue/5.8
Commit Hash: <code>d883e9af56ca3bcce06c8b06bd67965ad7b10f85</code>	Commit Name:
Message ID:	Description:
Publishing Time: Aug. 18, 2020, 1:12 a.m.	Discovery Time: Aug. 18, 2020, 1:12 a.m.
Log URL:	

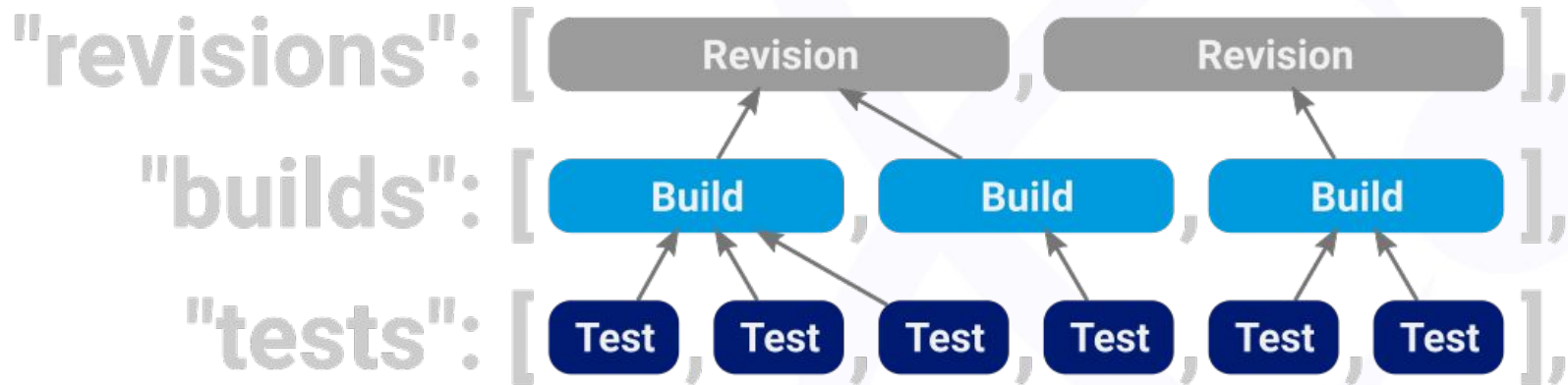
UNTRIAGED FAILURES

Tests

redhat:114416352	CPU: Frequency Driver Test	⚠️
redhat:114416355	IOMMU boot test	⚠️

I/O Schema

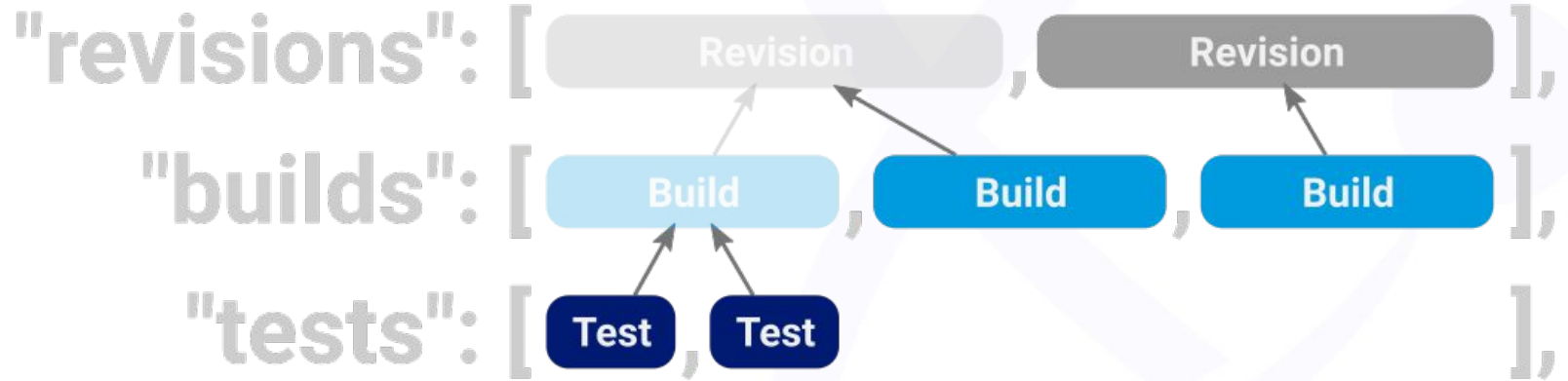
KernelCI Object Hierarchy



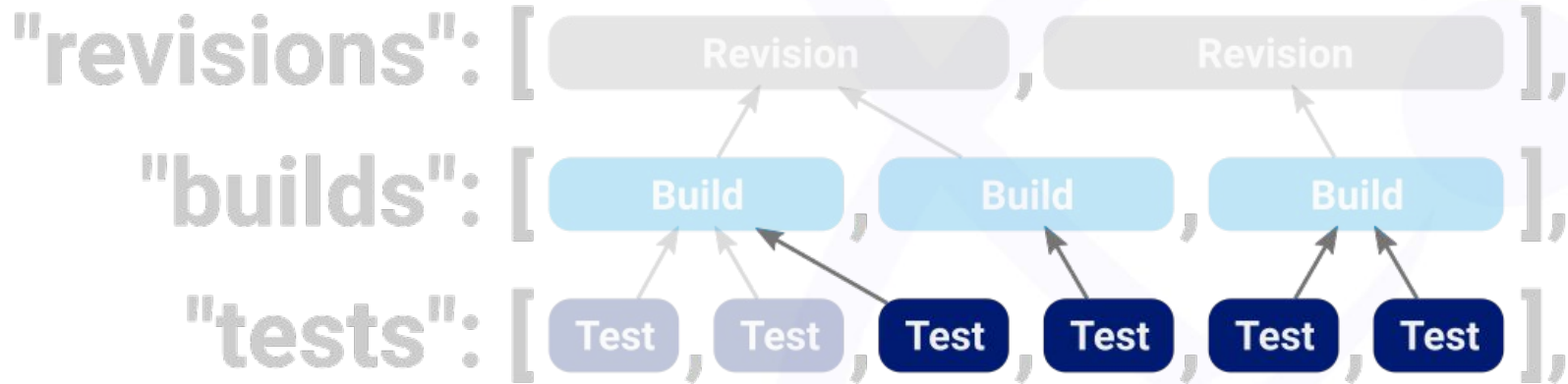
Report #1

```
"revisions": [ Revision ],  
  "builds": [ Build ],  
  "tests": [ ]
```

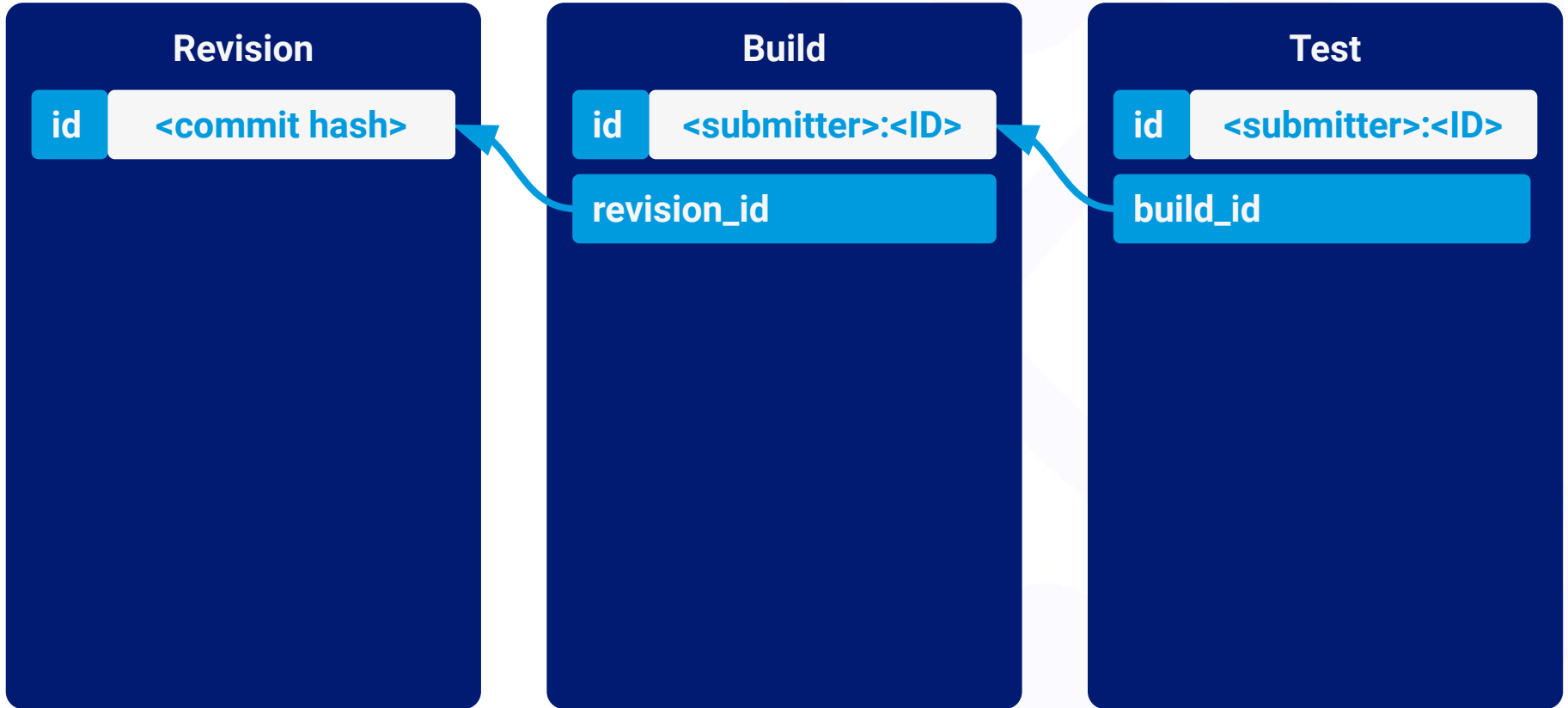
Report #2



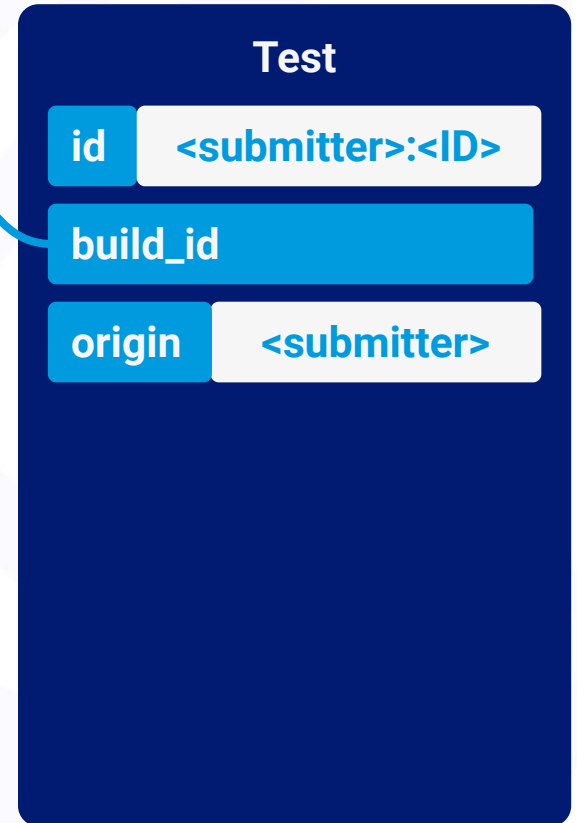
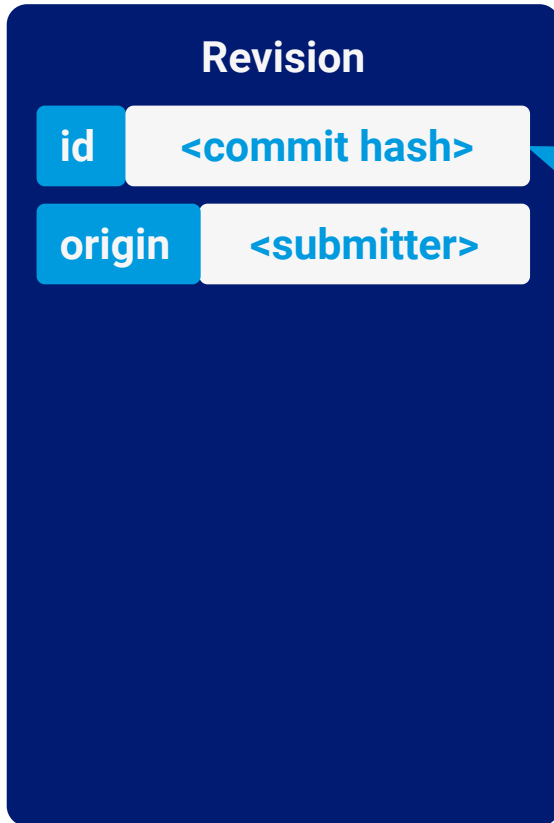
Report #3



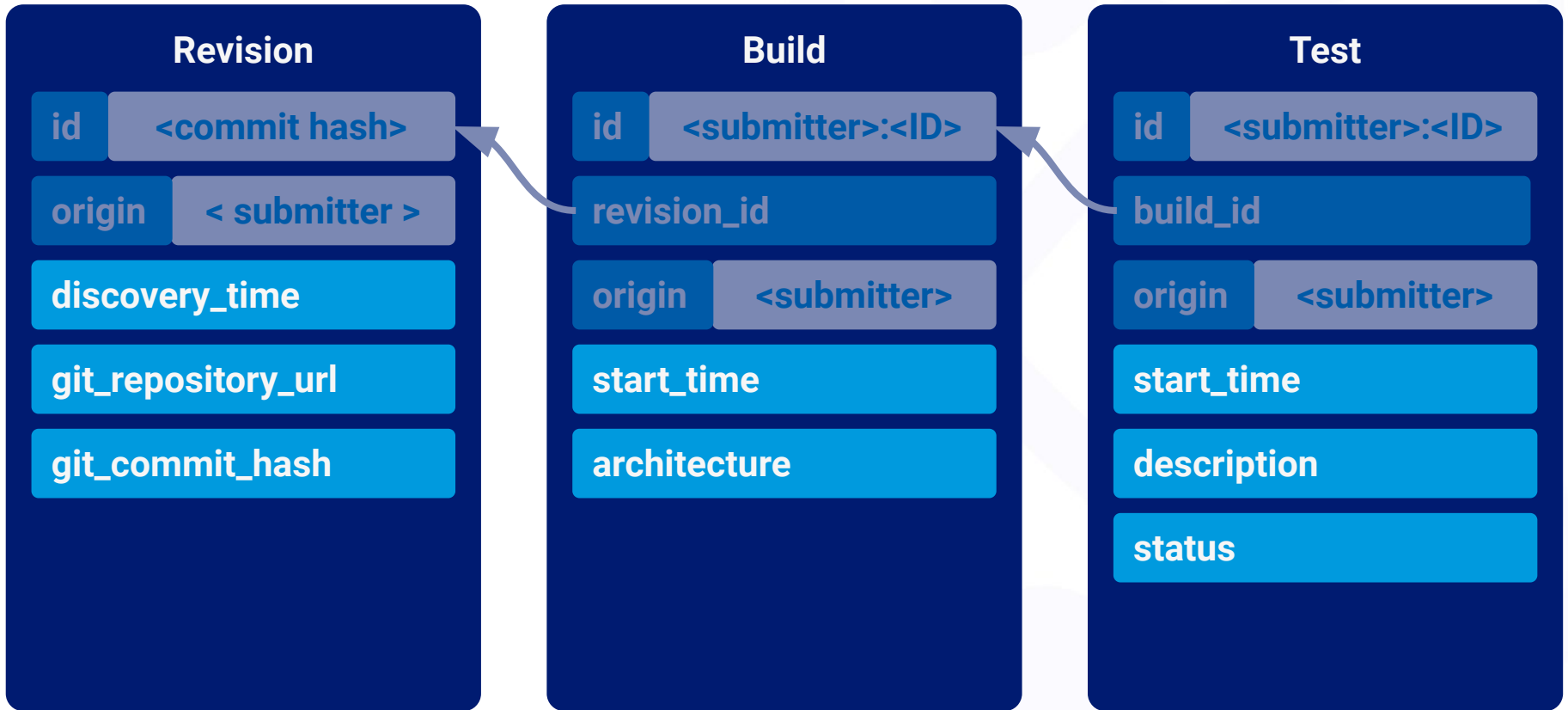
KernelCI Object IDs



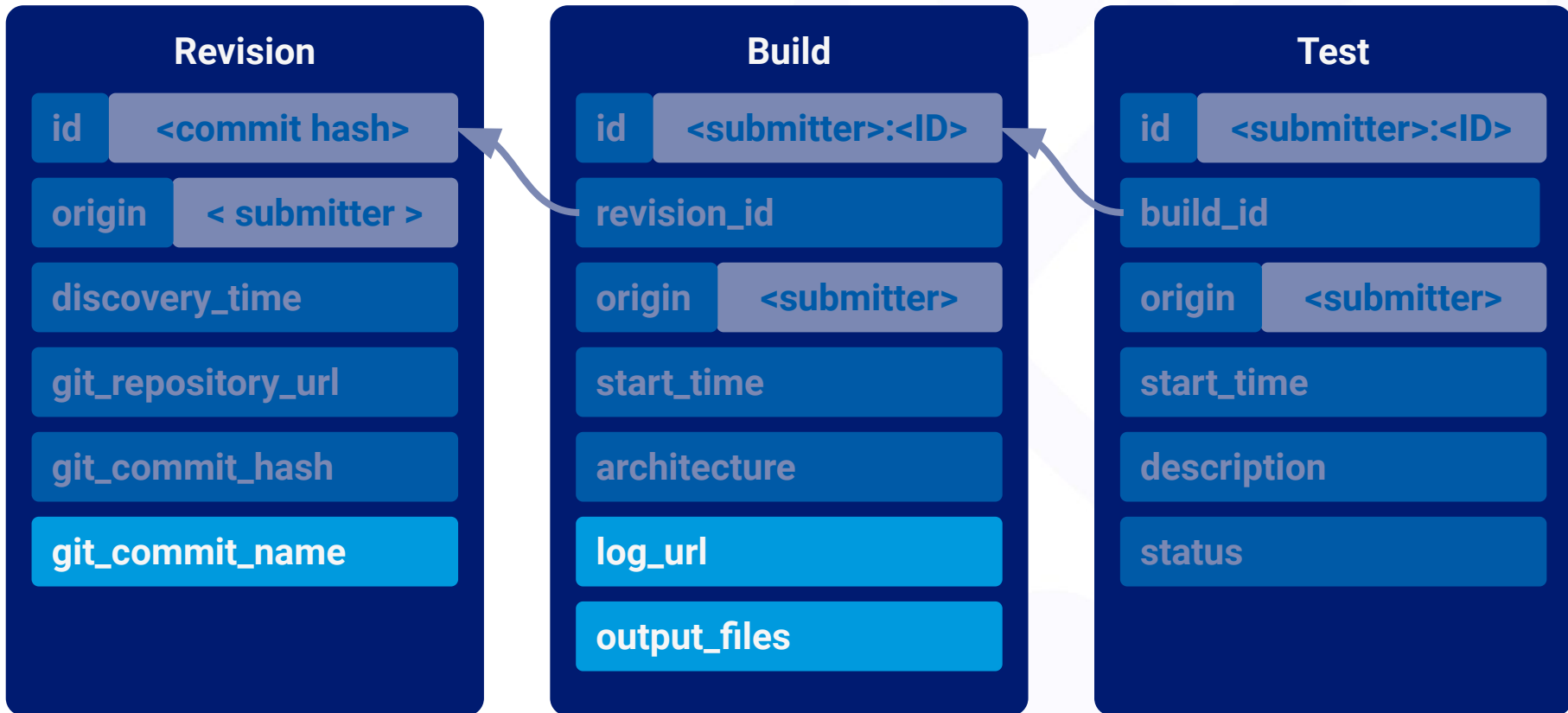
KernelCI Required Fields



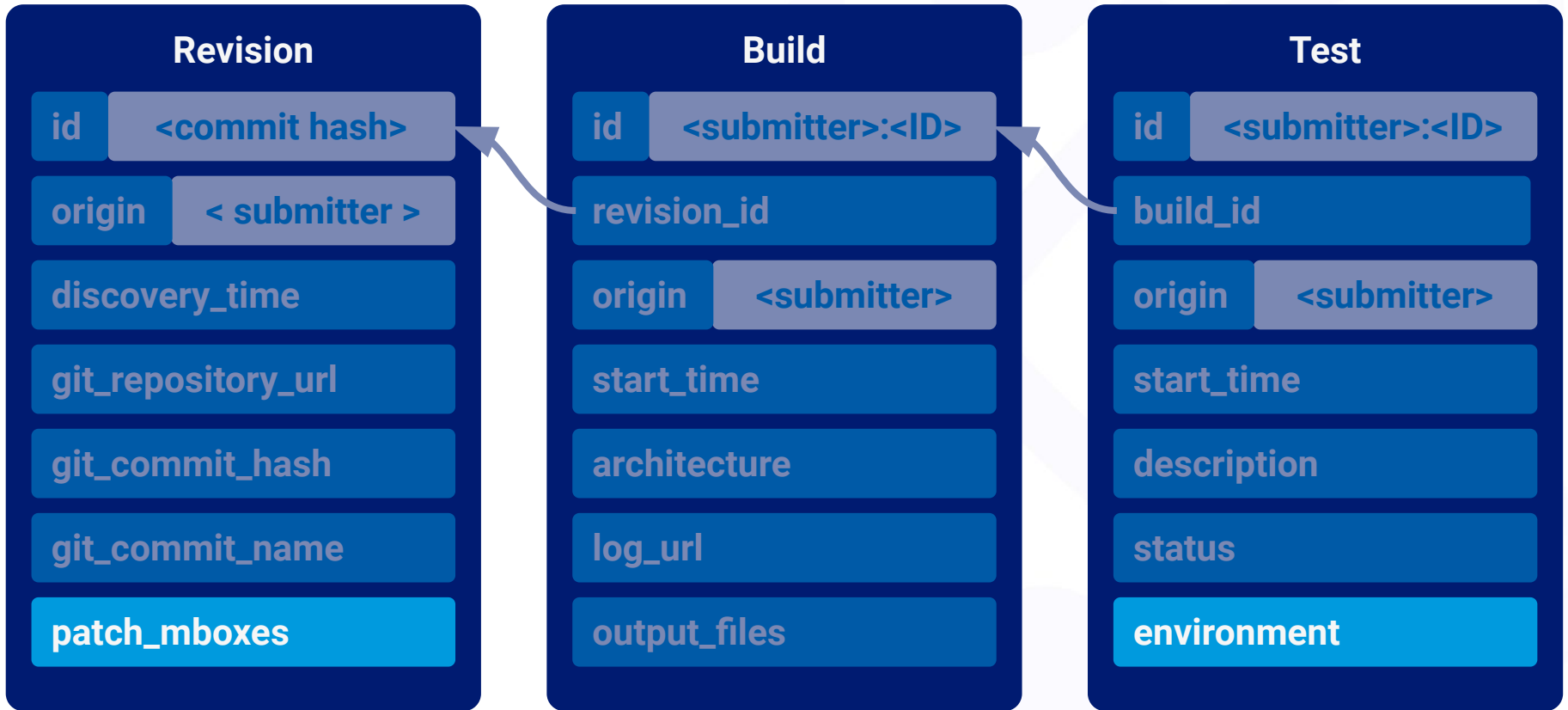
KernelCI Ramping Up



KernelCI Ramping Up



KernelCI Ramping Up



KernelCI Escape Hatch

Revision

misc

```
{
  "whatever": [
    "JSON"
  ],
  "you": "want"
}
```

Build

misc

```
[
  "for",
  "adding",
  "more data",
  "to be",
  "formalized"
]
```

Test

misc

```
{
  "for": [
    "debugging"
  ]
}
```

```
"additionalProperties": false,
"description": "A build of a revision",
"properties": {
  "architecture": {
    "description": "Target architecture of the build",
    "pattern": "^[a-z0-9_]+$",
    "type": "string"
  },
  "command": {
    "description": "Full shell command line used to make the build, including environment variables",
    "type": "string"
  },
  "compiler": {
    "description": "Name and version of the compiler used to make the build",
    "type": "string"
  },
  "config_name": {
    "description": "A name describing the build configuration options.",
    "type": "string"
  },
  "config_url": {
    "description": "The URL of the build configuration file.",
    "format": "uri",
    "type": "string"
  },
  "description": {
    "description": "Human-readable description of the build",
    "type": "string"
  },
  "duration": {
    "description": "The number of seconds it took to complete the build",
    "type": "number"
  }
},
```

I/O Schema v3

Database

KernelCI Schema defined in Python

256 lines (252 sloc) | 9.13 KB







Raw

Blame



```
1  """
2  Kernel CI report database schema.
3
4  Always corresponds to the latest I/O schema.
5  """
6  from google.cloud.bigquery.schema import SchemaField as Field
7
8  # Resource record fields
9  RESOURCE_FIELDS = (
10     Field("name", "STRING", description="Resource name"),
11     Field("url", "STRING", description="Resource URL"),
12 )
13
14 # Test environment fields
15 ENVIRONMENT_FIELDS = (
16     Field(
17         "description", "STRING",
18         description="Human-readable description of the environment",
19     ),
20     Field(
21         "misc", "STRING",
22         description="Miscellaneous extra data about the environment "
23     )
24 )
```

One dataset per I/O schema

- ▼  kernelci-production
 - ▶  kernelci03_archive
 - ▶  kernelci04
 - ▶  playground_kernelci04
 - ▶  test_kernelci04
 - ▶  test_kernelci05

One dataset per I/O schema

- ▼  kernelci-production
 - ▶  kernelci03_archive
 - ▶  kernelci04
 - ▶  playground_kernelci04
 - ▶  test_kernelci04
 - ▶  test_kernelci05

KernelCI Open to the public

DATASET PERMISSIONS

AUTHORIZED VIEWS



This resource is public and can be accessed by anyone on the internet. To remove public access, remove "allUsers" and "allAuthenticatedUsers" from the resource's members.

KernelCI DB schema can be queried

[RUN](#) [SAVE](#) [SCHEDULE](#) [MORE](#) ✓ This query will process 10 MiB when run.

```
1 SELECT *
2 FROM kernelci-production.kernelci04.INFORMATION_SCHEMA.COLUMNS
```

Query results [SAVE RESULTS](#) [EXPLORE DATA](#)

Query complete (0.2 sec elapsed, 10 MB processed)

Job information **Results** JSON Execution details

Row	table_catalog	table_schema	table_name	column_name	ordinal_position	is_nullable	data_type	is_generated	generation_expression	is_stored	is_hidden	is_updatable	is_system_de
1	kernelci-production	kernelci04	revisions	id	1	YES	STRING	NEVER	<i>null</i>	<i>null</i>	NO	<i>null</i>	NO
2	kernelci-production	kernelci04	revisions	origin	2	YES	STRING	NEVER	<i>null</i>	<i>null</i>	NO	<i>null</i>	NO
3	kernelci-production	kernelci04	revisions	tree_name	3	YES	STRING	NEVER	<i>null</i>	<i>null</i>	NO	<i>null</i>	NO
4	kernelci-production	kernelci04	revisions	git_repository_url	4	YES	STRING	NEVER	<i>null</i>	<i>null</i>	NO	<i>null</i>	NO
5	kernelci-production	kernelci04	revisions	git_commit_hash	5	YES	STRING	NEVER	<i>null</i>	<i>null</i>	NO	<i>null</i>	NO
6	kernelci-production	kernelci04	revisions	git_commit_name	6	YES	STRING	NEVER	<i>null</i>	<i>null</i>	NO	<i>null</i>	NO
7	kernelci-production	kernelci04	revisions	git_repository_branch	7	YES	STRING	NEVER	<i>null</i>	<i>null</i>	NO	<i>null</i>	NO
8	kernelci-production	kernelci04	revisions	patch_mboxes	8	NO	ARRAY<STRUCT<name STRING, url STRING>>	NEVER	<i>null</i>	<i>null</i>	NO	<i>null</i>	NO
9	kernelci-production	kernelci04	revisions	message_id	9	YES	STRING	NEVER	<i>null</i>	<i>null</i>	NO	<i>null</i>	NO
10	kernelci-production	kernelci04	revisions	description	10	YES	STRING	NEVER	<i>null</i>	<i>null</i>	NO	<i>null</i>	NO
11	kernelci-production	kernelci04	revisions	publishing_time	11	YES	TIMESTAMP	NEVER	<i>null</i>	<i>null</i>	NO	<i>null</i>	NO
12	kernelci-production	kernelci04	revisions	discovery_time	12	YES	TIMESTAMP	NEVER	<i>null</i>	<i>null</i>	NO	<i>null</i>	NO
13	kernelci-production	kernelci04	revisions	contacts	13	NO	ARRAY<STRING>	NEVER	<i>null</i>	<i>null</i>	NO	<i>null</i>	NO
14	kernelci-production	kernelci04	revisions	log_url	14	YES	STRING	NEVER	<i>null</i>	<i>null</i>	NO	<i>null</i>	NO

Rows per page: 100 1 - 44 of 44 [First page](#) [<](#) [>](#) [Last page](#)



[RUN](#) [SAVE](#) [SCHEDULE](#) [MORE](#) ✓ This query will process 907.6 KiB when run.

```
1 SELECT git_repository_url, COUNT(*) AS count
2 FROM kernelci-production.kernelci04.revisions
3 GROUP BY git_repository_url
4 ORDER BY count DESC
```

Query results [SAVE RESULTS](#) [EXPLORE DATA](#)

Query complete (0.1 sec elapsed, cached)

Job information [Results](#) JSON Execution details

Row	git_repository_url	count
1	https://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git	3043
2	https://git.kernel.org/pub/scm/linux/kernel/git/davem/net-next.git	2581
3	https://git.kernel.org/pub/scm/linux/kernel/git/stable/linux-stable-rc.git	2379
4	https://git.kernel.org/pub/scm/linux/kernel/git/stable/linux-stable.git	1321
5	https://android.googlesource.com/kernel/common	1283
6	https://github.com/kernelci/linux.git	1077
7	https://git.kernel.org/pub/scm/linux/kernel/git/rdma/rdma.git	547
8	https://git.kernel.org/pub/scm/linux/kernel/git/next/linux-next.git	356
9	https://git.kernel.org/pub/scm/linux/kernel/git/arm64/linux.git	204
10	https://git.kernel.org/pub/scm/linux/kernel/git/axboe/linux-block.git	183
11	https://git.kernel.org/pub/scm/linux/kernel/git/stable/stable-queue.git	170
12	https://gitlab.com/cki-project/kernel-ark	164
13	https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git	159

Rows per page: 100 1 - 47 of 47 [First page](#) [<](#) [>](#) [Last page](#)



RUN **SAVE** **SCHEDULE** **MORE** ✓ This query will process 651.9 KiB when run.

```
1 SELECT architecture, COUNT(*) AS count
2 FROM kernelci-production.kernelci04.builds
3 GROUP BY architecture
4 ORDER BY count DESC
```

Query results **SAVE RESULTS** **EXPLORE DATA**

Query complete (0.1 sec elapsed, cached)

Job information **Results** JSON Execution details

Row	architecture	count
1	arm	38023
2	mips	16731
3	x86_64	15758
4	arm64	8092
5	aarch64	5124
6	ppc64le	5034
7	riscv	4958
8	arc	4517
9	s390x	4063
10	i386	2648
11	x86	222
12	amd64	22

Rows per page: 100 1 - 12 of 12 First page |< < > >| Last page



[RUN](#) [SAVE](#) [SCHEDULE](#) [MORE](#) ✓ This query will process 97.9 MiB when run.

```
1 SELECT REGEXP_REPLACE(path, "\\..*", "") AS name, COUNT(*) AS count
2 FROM kernelci-production.kernelci04.tests
3 WHERE path IS NOT NULL
4 GROUP BY name
5 ORDER BY count DESC
```

Query results [SAVE RESULTS](#) [EXPLORE DATA](#)

Query complete (0.0 sec elapsed, cached)

Job information [Results](#) JSON Execution details

Row	name	count
1	baseline	1078080
2	ltp	587691
3	igt-kms-rockchip	452022
4	igt-kms-exynos	174313
5	baseline-nfs	172141
6	sleep	84335
7	kselftest	77739
8	igt-kms-tegra	76904
9	crypto	70806
10	ltp-mm	70076
11	open-posix	60843
12	ltp-ipc	37932
13	igt-gpu-panfrost	32849

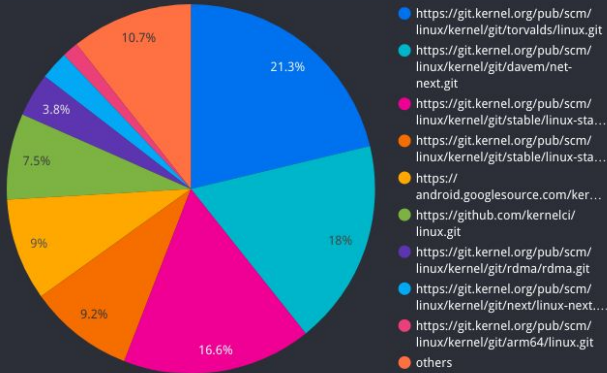
Rows per page: 1 - 95 of 95 [First page](#) |< < > >| [Last page](#)

KernelCI And visualized!

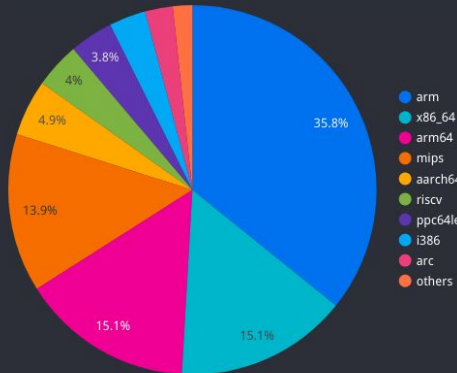
KCIDB report demo

Share Edit ?

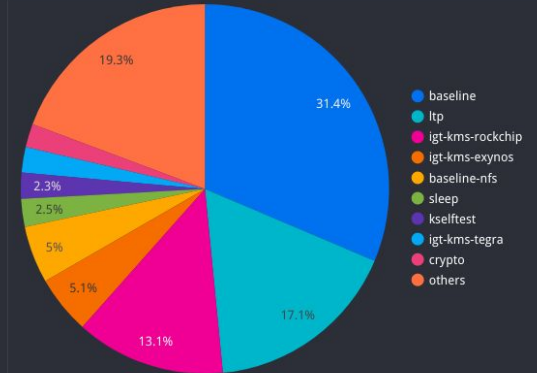
Revisions per repo



Build architectures



Runs per test



Data Last Updated: 2/16/2021 7:13:26 PM | [Privacy Policy](#)

From Dashboard to Dashboard



index : kernel/git/torvalds/linux.git

master ▾

switch

Linux kernel source tree

Linus Torvalds

about summary refs log tree **commit** diff stats

log msg ▾

search

author Linus Torvalds <torvalds@linux-foundation.org> 2020-08-14 16:01:59 -0700
committer Linus Torvalds <torvalds@linux-foundation.org> 2020-08-14 16:01:59 -0700
commit [c9c9735c46f589b9877b7fc00c89ef1b61a31e18](#) (patch)
tree [cef92dbb6db8a55caddeb942a60b55bf0a2e493](#)
parent [fded09198826b2998242ed2e1a16527849884d3f](#) (diff)
parent [7e0e8be3a1fd1399373224e22d77487e63566704](#) (diff)
download [linux-c9c9735c46f589b9877b7fc00c89ef1b61a31e18.tar.gz](#)

diff options

context: 3 ▾

space: include ▾

mode: unified ▾

Merge tag 'scsi-misc' of git://git.kernel.org/pub/scm/linux/kernel/git/jejb/scsi

Pull more SCSI updates from James Bottomley:

```
"This is the set of patches which arrived too late to stabilise in
-next for the first pull.
```

```
It's really just an lpfc driver update and an assortment of minor
fixes, all in drivers. The only core update is to the zone block
device driver, which isn't the one most people use"
```

```
* tag 'scsi-misc' of git://git.kernel.org/pub/scm/linux/kernel/git/jejb/scsi:
  scsi: lpfc: Update lpfc version to 12.8.0.3
  scsi: lpfc: Fix LUN loss after cable pull
```


KernelCI Revision Example - origin

Home Jobs Builds Tests SoCs Boots KCIDB Info

Test Results: «v5.8-13377-gc9c9735c46f5» (mainline / master)

Tree mainline —
Git branch master —
Git describe v5.8-13377-gc9c9735c46f5 —
Git URL <https://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git>
Git commit c9c9735c46f589b9877b7fc00c89ef1b61a31e18
Date 2020-08-15



Available Test Plans

Filter the results

Test Plan	Test Results	Status
baseline	507 493 11 3	⚠
baseline-nfs	112 107 0 5	✓
cros-ec	54 17 1 36	⚠
igt-gpu-panfrost	30 28 0 2	✓

KernelCI Revision Example - origin

Go to pipeline # ..

Anonymous

Revision

Actions ▾

All / Revision

REVISION STATUS Valid	BUILD STATUS Passed	TEST STATUS Failed
--	--------------------------------------	-------------------------------------

Revision ID: c9c9735c46f589b9877b7fc00c89ef1b61a31e18

Origin: redhat	Tree: mainline.kernel.org
Repository URL: https://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git	Repository Branch: master
Commit Hash: c9c9735c46f589b9877b7fc00c89ef1b61a31e18	Commit Name:
Message ID:	Description:
Publishing Time: Aug. 14, 2020, 11:08 p.m.	Discovery Time: Aug. 14, 2020, 11:08 p.m.
Log URL:	

KernelCI Revision Example - JSON

```
{
  "contacts": [],
  "discovery_time": "2020-08-14T23:08:06.967000+00:00",
  "git_commit_hash": "c9c9735c46f589b9877b7fc00c89ef1b61a31e18",
  "git_repository_branch": "master",
  "git_repository_url": "https://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git",
  "id": "c9c9735c46f589b9877b7fc00c89ef1b61a31e18",
  "misc": {
    "pipeline_id": 612127
  },
  "origin": "redhat",
  "patch_boxes": [],
  "valid": true
},
```



Revision -

📊 ☆ 🔄 📄 ⚙️ 🗨️
🕒 Last 100 years
🔍 🔄

Origin All

🏠 Home

Origin

kernelci

Repo

<https://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git>

Log

Status

✓

Builds

X

Tests

FAIL

Branch

master

Name

v5.8-13377-gc9c9735c46f5

Hash

c9c9735c46f589b9877b7fc00c89ef1b61a31e18

Description

Discovery Time

2020-08-15 07:28:09.206+00

Builds

Origin	Description	Architecture	Configuration	Start time	Duration	Status	Tests
redhat	-	s390x	fedora	2020-08-14 23:08:10.008+00	00:04:41.000	✓	FAIL
redhat	-	x86_64	fedora	2020-08-14 23:08:10.008+00	00:11:51.000	✓	FAIL
redhat	-	ppc64le	fedora	2020-08-14 23:08:10.008+00	00:10:28.000	✓	FAIL
redhat	-	aarch64	fedora	2020-08-14 23:08:10.008+00	00:14:10.000	✓	FAIL
kernelci	v5.8-13377-gc9c9735c46f5	x86_64	x86_64_defconfig	2020-08-15 07:28:09.206+00	00:06:15.060	✓	PASS
kernelci	v5.8-13377-gc9c9735c46f5	arm	multi_v7_defconfig	2020-08-15 07:31:43.519+00	00:09:51.450	✓	FAIL
kernelci	v5.8-13377-gc9c9735c46f5	arm64	defconfig	2020-08-15 07:40:23.183+00	00:15:17.920	✓	FAIL
kernelci	v5.8-13377-gc9c9735c46f5	arm64	defconfig	2020-08-15 07:46:18.307+00	00:24:48.060	X	FAIL

Patches



Revision -

Origin All

Home

Origin	Repo	Log	Status	Builds	Tests
kernelci	https://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git		✓	✓	FAIL
Branch	Name	Hash			
master	v5.8-13377-gc9c9735c46f5	c9c9735c46f589b9877b7fc00c89ef1b61a31e18			
Description				Discovery Time	
				2020-08-15 07:28:09.206+00	

Builds

Origin	Description	Architecture	Configuration	Start time	Duration	Status	Tests
redhat	-	s390x	fedora	2020-08-14 23:08:10.008+00	00:04:41.000	✓	FAIL
redhat	-	x86_64	fedora	2020-08-14 23:08:10.008+00	00:11:51.000	✓	FAIL
redhat	-	ppc64le	fedora	2020-08-14 23:08:10.008+00	00:10:28.000	✓	FAIL
redhat	-	aarch64	fedora	2020-08-14 23:08:10.008+00	00:14:10.000	✓	FAIL
kernelci	v5.8-13377-gc9c9735c46f5	x86_64	x86_64_defconfig	2020-08-15 07:28:09.206+00	00:06:15.060	✓	PASS
kernelci	v5.8-13377-gc9c9735c46f5	arm	multi_v7_defconfig	2020-08-15 07:31:43.519+00	00:09:51.450	✓	FAIL
kernelci	v5.8-13377-gc9c9735c46f5	arm64	defconfig	2020-08-15 07:40:23.183+00	00:15:17.920	✓	FAIL

Patches



Revision -

Origin All

Home

Origin: kernelci, Repo: <https://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git>, Log, Status: ✓, Builds: ✓, Tests: FAIL

Branch: master, Name: v5.8-13377-gc9c9735c46f5, Hash: c9c9735c46f589b9877b7fc00c89ef1b61a31e18

Description, Discovery Time: 2020-08-15 07:28:09.206+00

Builds								
Origin	Description	Architecture	Configuration	Start time	Duration	Status	Tests	
redhat	-	s390x	fedora	2020-08-14 23:08:10.008+00	00:04:41.000	✓	FAIL	
redhat	-	x86_64	fedora	2020-08-14 23:08:10.008+00	00:11:51.000	✓	FAIL	
redhat	-	ppc64le	fedora	2020-08-14 23:08:10.008+00	00:10:28.000	✓	FAIL	
redhat	-	aarch64	fedora	2020-08-14 23:08:10.008+00	00:14:10.000	✓	FAIL	
kernelci	v5.8-13377-gc9c9735c46f5	x86_64	x86_64_defconfig	2020-08-15 07:28:09.206+00	00:06:15.060	✓	PASS	
kernelci	v5.8-13377-gc9c9735c46f5	arm	multi_v7_defconfig	2020-08-15 07:31:43.519+00	00:09:51.450	✓	FAIL	
kernelci	v5.8-13377-gc9c9735c46f5	arm64	defconfig	2020-08-15 07:40:23.183+00	00:15:17.920	✓	FAIL	

Patches



Build Details: «v5.8-13377-gc9c9735c46f5» – x86_64_defconfig (mainline / master)

Tree	mainline —	Status	
Git branch	master —	Architecture	x86_64
Git describe	v5.8-13377-gc9c9735c46f5 — —	Build errors	0
Defconfig	x86_64_defconfig	Build warnings	0
Git URL	https://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git	Build time	375.06sec.
Git commit	c9c9735c46f589b9877b7fc00c89ef1b61a31e18		
Date	2020-08-15 07:28:09 UTC		
Compiler	gcc		
Compiler version	8		
Compiler string	gcc (Debian 8.3.0-6) 8.3.0		
Cross-compile			
Build log	build.log (121.96 KiB)	Dtb	
Kernel config	kernel.config (123.29 KiB)	Modules	modules.tar.xz (49.52 KiB)
Config fragments		Kernel image	bzImage (8.62 MiB)
Text offset	0x01000000	System map	System.map (4.8 MiB)
		ELF file size	56.6 MiB
		ELF .bss section size	1,004 KiB
		ELF .data section size	1.52 MiB
		ELF .txt section size	14 MiB



KernelCI Build Example - JSON

```
{
  "architecture": "x86_64",
  "compiler": "gcc (Debian 8.3.0-6) 8.3.0",
  "config_name": "x86_64_defconfig",
  "config_url": "https://storage.staging.kernelci.org/mainline/master/v5.8-13377-gc9c9735c46f5/x86_64/x86_64_defconfig/gcc-8/kernel.config",
  "description": "v5.8-13377-gc9c9735c46f5",
  "duration": 375.06,
  "id": "kernelci:staging.kernelci.org:5f378e893e63ac340ab5009e",
  "input_files": [],
  "log_url": "https://storage.staging.kernelci.org/mainline/master/v5.8-13377-gc9c9735c46f5/x86_64/x86_64_defconfig/gcc-8/build.log",
  "misc": {
    "build_platform": [
      "Linux",
      "build-j6513-x86-64-gcc-8-x86-64-defconfig-8fbrg",
      "4.19.112+",
      "#1 SMP Tue Apr 28 06:48:29 PDT 2020",
      "x86_64",
      ""
    ],
    "kernel_image_size": 9040960,
    "vmlinux_bss_size": 1028096,
    "vmlinux_data_size": 1591936
  },
  "origin": "kernelci",
  "output_files": [
    {
      "name": "System.map",
      "url": "https://storage.staging.kernelci.org/mainline/master/v5.8-13377-gc9c9735c46f5/x86_64/x86_64_defconfig/gcc-8/System.map"
    },
    {
      "name": "modules",
      "url": "https://storage.staging.kernelci.org/mainline/master/v5.8-13377-gc9c9735c46f5/x86_64/x86_64_defconfig/gcc-8/modules.tar.xz"
    },
    {
      "name": "kernel_image",
      "url": "https://storage.staging.kernelci.org/mainline/master/v5.8-13377-gc9c9735c46f5/x86_64/x86_64_defconfig/gcc-8/bzImage"
    }
  ],
  "revision_id": "c9c9735c46f589b9877b7fc00c89ef1b61a31e18",
  "start_time": "2020-08-15T07:28:09.206000+00:00",
  "valid": true
},
```


KernelCI Build Example - dashboard

The screenshot displays the KernelCI dashboard for a specific build. The top navigation bar includes 'Home' and 'Revision' links. The main content area is divided into several sections:

- Origin:** kernelci
- Description:** v5.8-13377-gc9c9735c46f5
- Output files:** A list containing 'System.map' and 'modules'.
- Status:** PASS (indicated by a green checkmark)
- Log File:** Configuration
- Start time:** 2020-08-15 07:28:09.206+00
- Duration:** 00:06:15.060
- Architecture:** x86_64
- Compiler:** gcc (Debian 8.3.0-6) 8.3.0
- Configuration:** x86_64_defconfig

Below these details is a table of test results:

Origin	Path	Description	Start time	Duration	Status
kernelci	baseline_login	baseline on qemu_x86_64 in lab-baylibre	2020-08-15 07:29:26.227+00		PASS
kernelci	baseline_dmesg_crit	baseline on qemu_x86_64 in lab-baylibre	2020-08-15 07:29:26.232+00		PASS
kernelci	baseline_dmesg_alert	baseline on qemu_x86_64 in lab-baylibre	2020-08-15 07:29:26.235+00		PASS
kernelci	baseline_dmesg_emerg	baseline on qemu_x86_64 in lab-baylibre	2020-08-15 07:29:26.237+00		PASS
kernelci	baseline_boottr_deferred_probe_empty	baseline on qemu_x86_64 in lab-baylibre	2020-08-15 07:29:26.243+00		PASS
kernelci	baseline_login	baseline on qemu_x86_64-uefi-mixed in lab-baylibre	2020-08-15 07:29:28.603+00		PASS
kernelci	baseline_dmesg_crit	baseline on qemu_x86_64-uefi-mixed in lab-baylibre	2020-08-15 07:29:28.608+00		PASS
kernelci	baseline_dmesg_alert	baseline on qemu_x86_64-uefi-mixed in lab-baylibre	2020-08-15 07:29:28.612+00		PASS
kernelci	baseline_dmesg_emerg	baseline on qemu_x86_64-uefi-mixed in lab-baylibre	2020-08-15 07:29:28.615+00		PASS
kernelci	baseline_boottr_deferred_probe_empty	baseline on qemu_x86_64-uefi-mixed in lab-baylibre	2020-08-15 07:29:28.621+00		PASS
kernelci	baseline_login	baseline on qemu_x86_64-uefi in lab-baylibre	2020-08-15 07:29:29.678+00		PASS
kernelci	baseline_dmesg_crit	baseline on qemu_x86_64-uefi in lab-baylibre	2020-08-15 07:29:29.683+00		PASS
kernelci	baseline_dmesg_alert	baseline on qemu_x86_64-uefi in lab-baylibre	2020-08-15 07:29:29.686+00		PASS
kernelci	baseline_dmesg_emerg	baseline on qemu_x86_64-uefi in lab-baylibre	2020-08-15 07:29:29.689+00		PASS

KernelCI Test Example - origin

Home Jobs Builds Tests SoCs Boots KCIDB Info

«baseline.login» on qemu_x86_64-uefi (lab-collabora)

Status 
Job log [txt](#) — [html](#)
Device Type qemu_x86_64-uefi
SoC family qemu
Architecture x86_64
Endianness little

Defconfig [x86_64_defconfig](#) — 
Kernel image [bzImage](#)
Modules [modules.tar.xz](#)
Device tree 

Tree mainline — 
Git branch master — 
Git describe v5.8-13377-gc9c9735c46f5 —  — 
Plan baseline — 
Git URL <https://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git>
Git commit c9c9735c46f589b9877b7fc00c89ef1b61a31e18
Compiler gcc (Debian 8.3.0-6) 8.3.0
Date 2020-08-15



KernelCI Test Example - JSON

```
{
  "build_id": "kernelci:staging.kernelci.org:5f378e893e63ac340ab5009e",
  "description": "baseline on qemu_x86_64-uefi in lab-collabora",
  "environment": {
    "description": "qemu_x86_64-uefi in lab-collabora",
    "misc": {
      "device": "qemu_x86_64-uefi",
      "instance": "qemu-balsa-1",
      "lab": "lab-collabora",
      "mach": "qemu",
      "rootfs_url": "http://storage.kernelci.org/images/rootfs/buildroot/kci-2020.05/x86/baseline/rootfs.cpio.gz"
    }
  },
  "id": "kernelci:staging.kernelci.org:5f378eee3e63ac340ab500b3",
  "misc": {
    "plan": "baseline",
    "plan_variant": "baseline_qemu"
  },
  "origin": "kernelci",
  "output_files": [
    {
      "name": "html",
      "url": "https://storage.staging.kernelci.org/mainline/master/v5.8-13377-gc9c9735c46f5/x86_64/x86_64_defconfig/gcc-8/lab-collabora/baseline-qemu_x86_64-uefi.html"
    },
    {
      "name": "txt",
      "url": "https://storage.staging.kernelci.org/mainline/master/v5.8-13377-gc9c9735c46f5/x86_64/x86_64_defconfig/gcc-8/lab-collabora/baseline-qemu_x86_64-uefi.txt"
    },
    {
      "name": "lava_json",
      "url": "https://storage.staging.kernelci.org/mainline/master/v5.8-13377-gc9c9735c46f5/x86_64/x86_64_defconfig/gcc-8/lab-collabora/lava-qemu_x86_64-uefi.json"
    }
  ],
  "path": "baseline.login",
  "start_time": "2020-08-15T07:29:50.021000+00:00",
  "status": "PASS",
  "waived": false
},
```

KernelCI Test Example - dashboard

The screenshot displays the KernelCI dashboard interface. At the top, there's a navigation bar with 'Test' and a search bar. Below it, a breadcrumb trail shows 'Home' > 'Revision' > 'Build'. The main content area is a table with columns for 'Origin', 'Path', 'Description', and 'Status'. The 'Status' column for the selected test is highlighted in green and says 'PASS'. Below the table, there are sections for 'Start time', 'Duration', 'Output files', and 'Environment'. The 'Output files' section lists 'html', 'txt', and 'lava_json'. The 'Environment' section shows a JSON object with details about the test environment.

Origin	Path	Description	Status
kernelci	baseline.login	baseline on qemu_x86_64-uefi in lab-collabora	PASS

Start time: 2020-08-15 07:29:50.021+00

Duration: [empty]

Misc: {"plan_variant": "baseline_qemu", "plan": "baseline"}

Environment

Description: qemu_x86_64-uefi in lab-collabora

Misc: {"mach": "qemu", "rootfs_url": "http://storage.kernelci.org/images/rootfs/buildroot/kci-2020.05/x86/baseline/rootfs.cpio.gz", "device": "qemu_x86_64-uefi", "lab": "lab-collabora", "instance": "qemu-balsa-1"}

KernelCI Test Example - origin

The screenshot displays the KernelCI web interface. On the left is a blue sidebar with navigation links: Dashboard, Metrics, Revisions, PIPELINES (Running), Submitter, Summary, Failures, PATCHES, and Summary. The main content area shows a search bar at the top with the text 'Go to pipeline #..' and a magnifying glass icon. The user is identified as 'Anonymous'. The main heading is 'Test', with an 'Actions' dropdown menu. Below this is a breadcrumb trail: 'All / Revision / Build / Test'. A large green checkmark indicates the test status is 'PASS'. The test ID is 'redhat:114353810'. The status is 'PASS', the origin is 'redhat', and the description is 'Boot test'. The path is 'boot', the start time is 'Aug. 14, 2020, 11:41 p.m.', the environment is 'hpe-dl380pgen8-02-vm-14.hpe2.lab.eng.bos.redhat.com', the test was not waived, and the duration is 116 seconds.

Go to pipeline #.. Anonymous

Test

Actions ▾

All / Revision / Build / Test

TEST STATUS
PASS ✓

Test ID: redhat:114353810

Status: **PASS**

Origin: redhat

Environment: hpe-dl380pgen8-02-vm-14.hpe2.lab.eng.bos.redhat.com

Description: Boot test

Path: boot

Start Time: Aug. 14, 2020, 11:41 p.m.

Waived: No

Duration: 116



```
{
  "build_id": "redhat:956769",
  "description": "Boot test",
  "duration": 116.0,
  "id": "redhat:114353810",
  "misc": {
    "beaker_recipe_id": 8687594,
    "beaker_task_id": 114353810,
    "job_id": 956777,
    "pipeline_id": 612127
  },
  "origin": "redhat",
  "output_files": [
    {
      "name": "8687594_x86_64_1_console.log",
      "url": "https://s3.us-east-2.amazonaws.com/cki-artifacts/datawarehouse/2020/08/14/612127/build_x86_64_redhat:956769/tests/8687594_x86_64_1_console.log"
    },
    {
      "name": "8687594_x86_64_1_avec.log",
      "url": "https://s3.us-east-2.amazonaws.com/cki-artifacts/datawarehouse/2020/08/14/612127/build_x86_64_redhat:956769/tests/Boot_test/8687594_x86_64_1_avec.log"
    },
    {
      "name": "8687594_x86_64_1_dmesg.log",
      "url": "https://s3.us-east-2.amazonaws.com/cki-artifacts/datawarehouse/2020/08/14/612127/build_x86_64_redhat:956769/tests/Boot_test/8687594_x86_64_1_dmesg.log"
    },
    {
      "name": "8687594_x86_64_1_taskout.log",
      "url": "https://s3.us-east-2.amazonaws.com/cki-artifacts/datawarehouse/2020/08/14/612127/build_x86_64_redhat:956769/tests/Boot_test/8687594_x86_64_1_taskout.log"
    },
    {
      "name": "8687594_x86_64_1_harness.log",
      "url": "https://s3.us-east-2.amazonaws.com/cki-artifacts/datawarehouse/2020/08/14/612127/build_x86_64_redhat:956769/tests/Boot_test/8687594_x86_64_1_harness.log"
    }
  ],
  "path": "boot",
  "start_time": "2020-08-14T23:41:54+00:00",
  "status": "PASS",
  "waived": false
}
```

KernelCI Test Example - dashboard

The screenshot displays the KernelCI dashboard for a specific test. The interface is dark-themed and includes a sidebar with navigation icons (Home, Revision, Build) and a main content area. The test details are as follows:

Origin	Path	Description	Status
redhat	boot	Boot test	PASS

Start time	Duration	Output files
2020-08-14 23:41:54+00	00:01:56.000	<ul style="list-style-type: none">8687594_x86_64_1_console.log8687594_x86_64_1_avc.log8687594_x86_64_1_dmesg.log8687594_x86_64_1_taskout.log

Miscellaneous information:

```
{ "pipeline_id": 612127, "job_id": 956777, "beaker_task_id": 114353810, "beaker_recipe_id": 8687594 }
```

Environment section:

Description

Misc

Correlation

commit hash

or

commit hash+patchset hash

1d4db6a7b342d54cc

or

f0f2250fd11c4fb+b0d479287382a5

KernelCI Correlation - Patchset Hash

```
nkondras@bard:~$ sha256sum *.patch | cut -c-64 | sha256sum | cut -c-64
aa98bec5becf3edb58a18be346547c1a2a02e2bde02a06f9cc7e10dc35c6276c
nkondras@bard:~$
```

```
patches_hash = hashlib.sha256()
for patch_mbox in patch_mboxes:
    patches_hash.update(
        (hashlib.sha256(patch_mbox.encode()).hexdigest() + "\n").encode()
    )
patches_hash_text = patches_hash.hexdigest()
```



KernelCI Test Catalog

```
70  jcstress:
71     title: The Java Concurrency Stress tests
72     home: https://wiki.openjdk.java.net/display/CodeTools/jcstress
73  kselftest:
74     title: Kernel self-tests
75     home: https://kselftest.wiki.kernel.org/
76  kvm-unit-tests:
77     title: KVM unit tests
78     home: https://www.linux-kvm.org/page/KVM-unit-tests
79  libhugetlbfs:
80     title: Libhugetlbfs test suite
81     home: https://github.com/libhugetlbfs/libhugetlbfs
82  ltp:
83     title: Linux Test Project test suite
84     home: https://linux-test-project.github.io
```



KernelCI Test Catalog

```
70  jcstress:
71     title: The Java Concurrency Stress tests
72     home: https://wiki.openjdk.java.net/display/CodeTools/jcstress
73  kselftest:
74     title: Kernel self-tests
75     home: https://kselftest.wiki.kernel.org/
76  kvm-unit-tests:
77     title: KVM unit tests
78     home: https://www.linux-kvm.org/page/KVM-unit-tests
79  libhugetlbfs:
80     title: Libhugetlbfs test suite
81     home: https://github.com/libhugetlbfs/libhugetlbfs
82  ltp:
83     title: Linux Test Project test suite
84     home: https://linux-test-project.github.io
```

```
kselftest:  
  title: Kernel self-tests  
  home: https://kselftest.wiki.kernel.org/
```

```
kselftest
```

```
title: Kernel self-tests
```

```
home: https://kselftest.wiki.kernel.org/
```

```
"tests": [  
  {  
    "id": "redhat:112597281",  
    "build_id": "redhat:928663",  
    "description": "kselftests upstream - net",  
    "duration": 7558.0,  
    "origin": "redhat",  
    "path": "kselftest",  
    "start_time": "2020-07-02T23:45:13+00:00",  
    "status": "FAIL",  
    "waived": true,  
  }  
]
```



```
"tests": [  
  {  
    "id": "redhat:112597281",  
    "build_id": "redhat:928663",  
    "description": "kselftests upstream - net",  
    "duration": 7558.0,  
    "origin": "redhat",  
    "path": "kselftest",  
    "start_time": "2020-07-02T23:45:13+00:00",  
    "status": "FAIL",  
    "waived": true,  
  }  
]
```

KernelCI Test Path

The screenshot displays the KernelCI Test Path interface. At the top, there are navigation links for Home, Revision, and Build. The main content area shows a table with columns for Origin, Path, Description, and Status. The test run is identified as 'kseltests upstream - net' and has a status of 'FAIL'. Below the table, there are sections for 'Start time', 'Duration', and 'Output files'. The 'Output files' section lists several log files. A 'Misc' section contains a JSON object with identifiers for the beaker recipe, task, job, and pipeline. An 'Environment' section is also visible but currently collapsed.

Origin	Path	Description	Status
redhat	kseltests	kseltests upstream - net	FAIL

Start time: 2020-07-02 23:45:13+00
Duration: 02:05:58.000

Output files:

- 8513451_x86_64_1_resultoutputfile.log
- 8513451_x86_64_1_taskout.log
- 8513451_x86_64_1_ps-lwd.log
- 8513451_x86_64_1_journalctl

Misc: {"beaker_recipe_id": 8513451, "beaker_task_id": 112597281, "job_id": 928671, "pipeline_id": 609500}

Environment (collapsed)

KernelCI Test Path

The screenshot displays the KernelCI web interface for a specific test run. The top navigation bar includes 'Home', 'Revision', and 'Build' links. The main content area is a table with columns for Origin, Path, Description, and Status. The 'Path' column for the test 'kseltest' is highlighted with a blue box. Below the table, there are sections for 'Start time', 'Duration', 'Output files', and 'Environment'. The 'Status' column shows a 'FAIL' result with a red lightning bolt icon. The 'Output files' section lists several log files, and the 'Environment' section shows a JSON object with identifiers for the beaker recipe, task, job, and pipeline.

Origin	Path	Description	Status
redhat	kseltest	kseltests upstream - net	FAIL

Start time: 2020-07-02 23:45:13+00
Duration: 02:05:58.000

Misc: {"beaker_recipe_id": 8513451, "beaker_task_id": 112597281, "job_id": 928671, "pipeline_id": 609500}

Output files:

- 8513451_x86_64_1_resultoutputfile.log
- 8513451_x86_64_1_taskout.log
- 8513451_x86_64_1_ps-lwd.log
- 8513451_x86_64_1_journalctl

Environment:

Description:

Misc:

KernelCI Test Path

```
"tests": [  
  {  
    "id": "redhat:112597281",  
    "build_id": "redhat:928663",  
    "description": "kselftests upstream - net",  
    "duration": 7558.0,  
    "origin": "redhat",  
    "path": "kselftest",  
    "start_time": "2020-07-02T23:45:13+00:00",  
    "status": "FAIL",  
    "waived": true,  
  }  
]
```

KernelCI Test Path Descending

```
"tests": [  
  {  
    "id": "redhat:112597281",  
    "build_id": "redhat:928663",  
    "description": "kselftests upstream - net",  
    "duration": 7558.0,  
    "origin": "redhat",  
    "path": "kselftest.net.reuseport_dualstack",  
    "start_time": "2020-07-02T23:45:13+00:00",  
    "status": "FAIL",  
    "waived": true,  
  }  
]
```



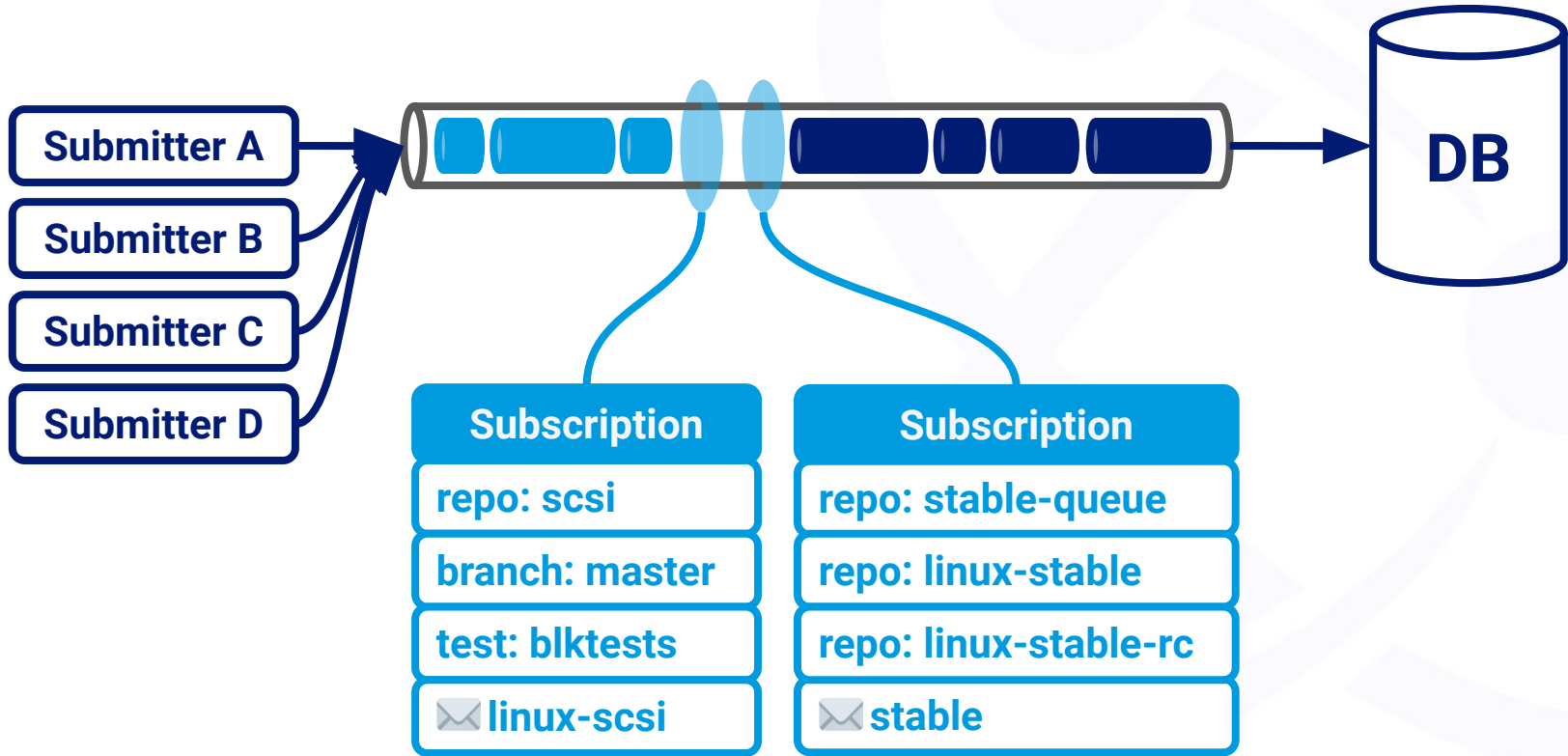
KernelCI Environment

```
"tests": [  
  {  
    "id": "kernelci:staging.kernelci.org:5f436b7de6506e49b677f49e",  
    "build_id": "kernelci:staging.kernelci.org:5f436b211b9a5d7eae77f4a9",  
    "description": "baseline on qemu_x86_64-uefi-mixed in lab-collabora",  
    "environment": {  
      "description": "qemu_x86_64-uefi-mixed in lab-collabora",  
      "misc": {  
        "device": "qemu_x86_64-uefi-mixed",  
        "instance": "qemu-rack-2",  
        "lab": "lab-collabora",  
        "mach": "qemu",  
        "rootfs_url": "http://storage.kernelci.org/images/.../rootfs.cpio.gz"  
      }  
    }  
  },  
]
```

KernelCI Environment

```
"tests": [  
  {  
    "id": "kernelci:staging.kernelci.org:5f436b7de6506e49b677f49e",  
    "build_id": "kernelci:staging.kernelci.org:5f436b211b9a5d7eae77f4a9",  
    "description": "baseline on qemu x86 64-uefi-mixed in lab-collabora",  
    "environment": {  
      "description": "qemu_x86_64-uefi-mixed in lab-collabora",  
      "misc": {  
        "device": "qemu_x86_64-uefi-mixed",  
        "instance": "qemu-rack-2",  
        "lab": "lab-collabora",  
        "mach": "qemu",  
        "rootfs_url": "http://storage.kernelci.org/images/.../rootfs.cpio.gz"  
      }  
    }  
  },  
],
```

Subscriptions and Notifications





```
30 lines (26 sloc) | 1.04 KB
Raw Blame

1  """Stable tree subscriptions"""
2
3  from kcidb.monitor.output import NotificationMessage as Message
4
5  REPO_URL_BASE = "https://git.kernel.org/pub/scm/linux/kernel/git"
6  REPO_URL_LIST = [
7      REPO_URL_BASE + suffix for suffix in [
8          "/stable/linux-stable-rc.git",
9          "/stable/linux-stable.git",
10         "/sashal/linux-stable.git",
11         "/stable/stable-queue.git",
12     ]
13 ]
14
15
16 def match_revision(revision):
17     """Match revisions of interest to stable tree developers"""
18     recipients = ["Linux Stable maillist <stable@vger.kernel.org>"]
19     if revision.git_repository_url not in REPO_URL_LIST:
20         return ()
21     for build in revision.builds_.values():
22         if not build.valid:
23             return (Message(recipients, "Builds failed for "),)
24         for test in build.tests_.values():
25             # Ignore syzbot until we have issues/incidents
26             if test.origin == "syzbot":
27                 continue
28             if test.status == "FAIL" and not test.waived:
29                 return (Message(recipients, "Tests failed for "),)
30     return ()
```

KernelCI A PoC Report

Below is the summary of testing results Kernel CI database has recorded for this revision so far. See complete and up-to-date report at:

<https://staging.kernelci.org:3000/d/revision/revision?orgId=1&var-id=c9c9735c46f589b9877b7fc00c89ef1b61a31e18>

OVERVIEW

Revision: ✔
Builds: ✘
Tests: ✘ FAIL

REVISION

Status



Repo

URL: <https://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git>

branch: master

Commit

name: v5.8-13377-gc9c9735c46f5

hash: c9c9735c46f589b9877b7fc00c89ef1b61a31e18

Discovered

by: kernelci

at: 2020-08-15T07:28:09.206000+00:00



KernelCI A PoC Report

BUILDS

Status

×

- ✗ arm64 defconfig v5.8-13377-gc9c9735c46f5
- ✓ x86_64 x86_64_defconfig v5.8-13377-gc9c9735c46f5
- ✓ arm64 defconfig v5.8-13377-gc9c9735c46f5
- ✓ x86_64 fedora
- ✓ arm_multi_v7_defconfig v5.8-13377-gc9c9735c46f5
- ✓ s390x fedora
- ✓ aarch64 fedora
- ✓ ppc64le fedora

KernelCI A PoC Report

BUILDS

Status

×

- ✗ arm64 defconfig v5.8-13377-gc9c9735c46f5
- ✓ x86_64 x86_64_defconfig v5.8-13377-gc9c9735c46f5
- ✓ arm64 defconfig v5.8-13377-gc9c9735c46f5
- ✓ x86_64 fedora
- ✓ arm multi_v7_defconfig v5.8-13377-gc9c9735c46f5
- ✓ s390x fedora
- ✓ aarch64 fedora
- ✓ ppc64le fedora



KernelCI A PoC Report

BUILDS

Status

×

- ✗ arm64 defconfig v5.8-13377-gc9c9735c46f5
- ✓ x86_64 x86_64_defconfig v5.8-13377-gc9c9735c46f5
- ✓ arm64 defconfig v5.8-13377-gc9c9735c46f5
- ✓ x86_64 fedora
- ✓ arm multi_v7_defconfig v5.8-13377-gc9c9735c46f5
- ✓ s390x fedora
- ✓ aarch64 fedora
- ✓ ppc64le fedora



KernelCI A PoC Report

TESTS

Status

✗ FAIL

✗ arm64 defconfig v5.8-13377-gc9c9735c46f5

- ✓ baseline.login - baseline on hip07-d05 in lab-collabora
- ✓ baseline.bootrr.deferred-probe-empty - baseline on hip07-d05 in lab-collabora
- ✓ baseline.dmesg.crit - baseline on hip07-d05 in lab-collabora
- ✗ baseline.dmesg.alert - baseline on hip07-d05 in lab-collabora
- ✗ baseline.dmesg.emerg - baseline on hip07-d05 in lab-collabora
- ✓ baseline.login - baseline on sun50i-h6-pine-h64 in lab-collabora
- ✓ baseline.bootrr.deferred-probe-empty - baseline on sun50i-h6-pine-h64 in lab-collabora
- ✓ baseline.dmesg.crit - baseline on sun50i-h6-pine-h64 in lab-collabora
- ✓ baseline.dmesg.alert - baseline on sun50i-h6-pine-h64 in lab-collabora
- ✓ baseline.dmesg.emerg - baseline on sun50i-h6-pine-h64 in lab-collabora
- ✓ baseline-nfs.login - baseline-nfs on hip07-d05 in lab-collabora
- ✓ baseline-nfs.bootrr.deferred-probe-empty - baseline-nfs on hip07-d05 in lab-collabora
- ✓ baseline-nfs.dmesg.crit - baseline-nfs on hip07-d05 in lab-collabora
- ✗ baseline-nfs.dmesg.alert - baseline-nfs on hip07-d05 in lab-collabora
- ✗ baseline-nfs.dmesg.emerg - baseline-nfs on hip07-d05 in lab-collabora
- ✓ baseline.login - baseline on rk3328-rock64 in lab-baylibre
- ✓ baseline.dmesg.crit - baseline on rk3328-rock64 in lab-baylibre
- ✓ baseline.dmesg.alert - baseline on rk3328-rock64 in lab-baylibre



KernelCI A PoC Report

- ✗ x86_64 fedora
 - ✗ ltp - LTP
 - ✓ boot - Boot test
 - ✓ boot - Boot test
 - ✓ boot - Boot test
 - ✓ redhat_cpu_idle_power - CPU: Idle Test
 - ✓ redhat_loopdev - Loopdev Sanity
 - ✓ xfstests - xfstests - xfs
 - ✓ redhat_acpi_table - ACPI table test
 - ✓ redhat_l2tp - L2TP basic test
 - ✓ redhat_kdump.sysrq-c - kdump - sysrq-c
 - ✓ xfstests - xfstests - ext4
 - ✓ xfstests - xfstests - btrfs
 - ✓ redhat_kdump.file_load - kdump - file-load
 - ✓ stress-ng - stress: stress-ng
 - ✓ redhat_udp_socket - Networking UDP: socket
 - ✓ redhat_pmtu - Networking route: pmtu
 - ✓ redhat_ethernet - Ethernet drivers sanity
 - ✓ redhat_socket_fuzz - Networking socket: fuzz
 - ✓ redhat_bridge - Networking bridge: sanity
 - ✗ redhat_cpufreq_driver - CPU: Frequency Driver Test
 - ✓ redhat_gre - Networking tunnel: gre basic
 - ✓ redhat_memfd_create - Memory function: memfd_create
 - ✓ redhat_route - Networking route_func - local



Submission Interface

```
nkondras@bard:~$ export GOOGLE_APPLICATION_CREDENTIALS=~/.kernelci-production-ci-cki.json
nkondras@bard:~$ kcidb-submit -p kernelci-production -t kernelci_new <<"EOF"
> {
>   "version": {
>     "major": 3,
>     "minor": 0
>   }
> }
> EOF
nkondras@bard:~$ █
```

```
#!/usr/bin/env python3

import kcidb

client = kcidb.Client(project_id="kernelci-production",
                      topic_name="kernelci_new")

report = dict(
    version=dict(major=3, minor=0)
)

client.submit(report)
```



kernelci-kernelci-backend

```

265 lines (235 sloc)  8.77 KB
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1 # Copyright (c) Collabora Limited 2019, 2020
2 # Author: Guillaume Tucker <guillaume.tucker@collabora.com>
3 #
4 # This program is free software; you can redistribute it and/or modify it under
5 # the terms of the GNU Lesser General Public License as published by the Free
6 # Software Foundation; either version 2.1 of the License, or (at your option)
7 # any later version.
8 #
9 # This program is distributed in the hope that it will be useful, but WITHOUT
10 # ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS
11 # FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more
12 # details.
13 #
14 # You should have received a copy of the GNU Lesser General Public License
15 # along with this library; if not, write to the Free Software Foundation, Inc.,
16 # 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
17
18 """Push data using kcidb-submit."""
19
20 import json
21 import os
22 import subprocess
23 import urlparse
24
25 import models
26 import utils
27 import utils.db
28 from utils.report.common import DEFAULT_STORAGE_URL as STORAGE_URL
29
30 # Mapping between kcidb revision keys and build documents
31 BUILD_KEY_MAP = {
32     'git_repository_url': models.GIT_URL_KEY,
33     'git_repository_commit_hash': models.GIT_COMMIT_KEY,
34     'git_repository_commit_name': models.GIT_DESCRIBE_V_KEY,
35     'git_repository_branch': models.GIT_BRANCH_KEY,
36 }
37
38 def make_id(raw_id, ns):
39     return '%s.%s' % (ns, str(raw_id))
40
41
42 def get_build_doc(group, db):
43     keys = [
44         models JOB_KEY,
45         models KERNEL_KEY,
46         models GIT_BRANCH_KEY,
47         models ARCHITECTURE_KEY,
48         models DEFCONFIG_KEY,
49         models BUILD_ENVIRONMENT_KEY,
50     ]
51     spec = {k: group[k] for k in keys}
52
53     return utils.db.find_one(db.models.BUILD_COLLECTION, spec)
54
55
56 def get_test_cases(group, db, hierarchy, ns):
57     case_collection = db.models.TEST_CASE_COLLECTION
58     group_collection = db.models.TEST_GROUP_COLLECTION
59
60     hierarchy = hierarchy + [group.models.NAME_KEY]
61     tests = [
62         {
63             'id': make_id(test.models.ID_KEY, ns),
64             'path': '%s.%s' % (hierarchy + [test.models.NAME_KEY]),

```

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65     'status': test.models.STATUS_KEY,
66     # TODO: get start and duration times from LAVA log timestamps
67     'start_time': test.models.CREATED_KEY.isoformat(),
68     }
69     for test in (
70         utils.db.find_one(case_collection, test_id)
71         for test_id in group.models.TEST_CASES_KEY)
72     ):
73         for sub_group_id in group.models.SUB_GROUPS_KEY:
74             sub_group = utils.db.find_one(group_collection, sub_group_id)
75             tests += get_test_cases(sub_group, db, hierarchy, ns)
76
77     return tests
78
79 def submit_data(kcidb_options):
80     json_data = json.dumps(data, indent=2)
81     if kcidb_options.get('verbose'):
82         utils.LOG.info("Submitting with kcidb:")
83         utils.LOG.info(json_data)
84     local_env = dict(os.environ)
85     local_env["MOOSE_APPLICATION_CREDENTIALS"] = kcidb_options["credentials"]
86     kcidb_path = kcidb_options.get("kcidb_path", "")
87     kcidb_submit = os.path.join(kcidb_path, "kcidb-submit")
88     p = subprocess.Popen([kcidb_submit,
89                          "-p", kcidb_options["project"],
90                          "-t", kcidb_options["topic"],
91                          stdin=subprocess.PIPE,
92                          stdout=subprocess.PIPE,
93                          env=local_env])
94     if p.returncode:
95         utils.LOG.warn("Failed to push data kcidb")
96
97 def push_build(build_id, first, kcidb_options, db_options={}, db=None):
98     if db is None:
99         db = utils.db.get_db_connection(db_options)
100     origin = kcidb_options.get("origin", "kernelci")
101     ns = kcidb_options.get("namespace", "kernelci.org")
102     build = utils.db.find_one(db.models.BUILD_COLLECTION, build_id)
103     build_id = make_id(build.models.ID_KEY, ns)
104     revision_id = build.models.GIT_COMMIT_KEY
105
106     kcidb_data = {
107         'version': '1',
108     }
109
110     if first:
111         kcidb_revision = {
112             'origin': origin,
113             'origin_id': revision_id,
114             'valid': True,
115             'discovery_time': build.models.CREATED_KEY.isoformat(),
116         }
117         kcidb_revision.update({
118             'kcidb_key': build_id,
119             'for_kcidb_key': build_id,
120         })
121         kcidb_data['revisions'] = [kcidb_revision]
122
123     files = [
124         'kernel_image': build.models.KERNEL_IMAGE_KEY,
125         'modules': build.models.MODULES_KEY,
126         'system_map': build.models.SYSTEM_MAP_KEY,

```

```

133     ]
134     output_files = []
135     for name, file in files.iteritems():
136         if file:
137             url = '%s.%s' % (
138                 STORAGE_URL,
139                 build.models.FILE_SERVER_RESOURCE_KEY,
140                 file)
141             output_files.append({"name": name, "url": url})
142
143     kcidb_build = {
144         'revision_origin': origin,
145         'revision_origin_id': revision_id,
146         'origin': origin,
147         'origin_id': build_id,
148         'valid': build.models.CREATED_KEY.isoformat(),
149         'start_time': build.models.CREATED_KEY.isoformat(),
150         'description': build.models.GIT_DESCRIBE_V_KEY,
151         'duration': build.models.BUILD_TIME_KEY,
152         'architecture': build.models.ARCHITECTURE_KEY,
153         'compiler': build.models.COMPILER_VERSION_FULL_KEY,
154         'log_url': urlparse.urljoin(
155             STORAGE_URL,
156             '%s.%s' % (
157                 build.models.FILE_SERVER_RESOURCE_KEY,
158                 utils.BUILD_LOG_FILE,
159             ))
160     },
161     ],
162     'config_name': build.models.DEFCONFIG_FULL_KEY,
163     'config_url': urlparse.urljoin(
164         STORAGE_URL,
165         '%s.%s' % (
166             build.models.FILE_SERVER_RESOURCE_KEY,
167             build.models.KERNEL_CONFIG_KEY,
168         ))
169     ]
170     'output_files': output_files,
171     'misc': {
172         'kernel_image_size': build.models.KERNEL_IMAGE_SIZE_KEY,
173         'vmlinux_hex_size': build.models.VMLINUX_HEX_SIZE_KEY,
174         'vmlinux_data_size': build.models.VMLINUX_DATA_SIZE_KEY,
175         'build_platform': build.models.BUILD_PLATFORM_KEY,
176     },
177     }
178     kcidb_data['builds'] = [kcidb_build]
179     submit(kcidb_data, kcidb_options)
180
181 def get_test_misc(group, test):
182     misc = {
183         'plan': group.models.NAME_KEY,
184         'plan_variant': group.models.PLAN_VARIANT_KEY,
185         'kernelci_status': test['status']
186     }
187     return misc
188
189 def push_tests(group_id, kcidb_options, db_options={}, db=None):
190     status_translate = {
191         'UNKNOWN': 'SKIP'
192     }
193
194     if db is None:
195         db = utils.db.get_db_connection(db_options)
196     collection = db.models.TEST_GROUP_COLLECTION
197     group = utils.db.find_one(collection, group_id)
198     origin = kcidb_options.get("origin", "kernelci")

```

```

199     ns = kcidb_options.get("namespace", "kernelci.org")
200     test_cases = get_test_cases(group, db, [], ns)
201     build = get_build_doc(group, db, [])
202     if not build:
203         utils.LOG.warn("kcidb: Missing build, unable to push tests.")
204         return
205     build_id = make_id(build.models.ID_KEY, ns)
206     env_description = "%s in [%s]" % (
207         group.models.DEVICE_TYPE_KEY,
208         group.models.LAB_NAME_KEY)
209
210     test_description = "%s on [%s]" % (
211         group.models.NAME_KEY,
212         group.models.DEVICE_TYPE_KEY,
213         group.models.LAB_NAME_KEY)
214
215     env_misc = {
216         'device': group.models.DEVICE_TYPE_KEY,
217         'lab': group.models.LAB_NAME_KEY,
218         'mach': group.models.MACH_KEY,
219         'rootfs_url': group.models.INITRD_KEY,
220         'instance': group.models.BOARD_INSTANCE_KEY,
221     }
222
223     files = {
224         'test': group.models.BOOT_LOG_KEY,
225         'test': group.models.BOOT_LOG_KEY,
226         'lava_json': 'lava-%s.json' % (group.models.DEVICE_TYPE_KEY, ns)
227     }
228
229     output_files = []
230     for name, file in files.iteritems():
231         url = urlparse.urljoin(
232             STORAGE_URL,
233             '%s.%s' % (
234                 build.models.FILE_SERVER_RESOURCE_KEY,
235                 group.models.LAB_NAME_KEY,
236                 file,
237             ))
238     ]
239     output_files.append({"name": name, "url": url})
240
241     kcidb_data = {
242         'version': '1',
243         'tests': [
244             {
245                 'build_origin': origin,
246                 'build_origin_id': build_id,
247                 'origin': origin,
248                 'origin_id': test['id'],
249                 'environment': {
250                     'description': env_description,
251                     'misc': env_misc,
252                 },
253                 'path': test['path'],
254                 'description': test.description,
255                 'status': status_translate.get(test['status'], test['status']),
256                 'waited': False,
257                 'start_time': test['start_time'],
258                 'output_files': output_files,
259                 'misc': get_test_misc(group, test)
260             }
261         ]
262     }
263     for test in TestCases
264     ],
265     ],
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```



kernelci-backend

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265 lines (235 sloc) 8.77 KB
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2 # Author: Guillaume Tucker <guillaume.tucker@collabora.com>
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15 # along with this library; if not, write to the Free Software Foundation, Inc.,
16 # 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
17
18 """Push data using kcidb-submit."""
19
20 import json
21 import os
22 import subprocess
23 import urlparse
24
25 import models
26 import utils
27
28 from utils.report import Report
29
30 # Mapping between kcidb keys and models keys
31 BUILD_KEY_MAP = {
32     'git_repository': 'git_repository',
33     'git_repository': 'git_repository',
34     'git_repository': 'git_repository',
35     'git_repository': 'git_repository',
36 }
37
38
39 def _make_id(raw_id, ns):
40     return '%s.%s' % (ns, str(raw_id))
41
42
43 def _get_build_doc(group, db):
44     keys = [
45         models JOB_KEY,
46         models KERNEL_KEY,
47         models GIT_BRANCH_KEY,
48         models ARCHITECTURE_KEY,
49         models OSCONFIG_KEY,
50         models BUILD_ENVIRONMENT_KEY,
51     ]
52     spec = {k: group[k] for k in keys}
53
54     return utils.db.find_one(models.BUILD_COLLECTION, spec)
55
56
57 def _get_test_cases(group, db, hierarchy, ns):
58     case_collection = db[models.TEST_CASE_COLLECTION]
59     group_collection = db[models.TEST_GROUP_COLLECTION]
60
61     hierarchy = hierarchy + [group[models.NAME_KEY]]
62     tests = [
63         {
64             'id': _make_id(test[models.ID_KEY], ns),
65             'path': '%s.%s' % (hierarchy + [test[models.NAME_KEY]]),
66             'status': test[models.STATUS_KEY],
67             # TODO: get start and duration times from LAVA log timestamps
68             'start_time': test[models.CREATED_KEY].isoformat(),
69         }
70     ]
71     for test in (
72         utils.db.find_one(case_collection, test_id)
73         for test_id in group[models.TEST_CASES_KEY]
74     ):
75         for sub_group_id in group[models.SUB_GROUPS_KEY]:
76             sub_group = utils.db.find_one(group_collection, sub_group_id)
77             tests += _get_test_cases(sub_group, db, hierarchy, ns)
78
79     return tests
80
81
82 def _submit_data(kcidb_options):
83     json_data = json.dumps(data, indent=2)
84     if kcidb_options.get('verbose'):
85         utils.log.info("Submitting with kcidb:")
86         utils.log.info(json_data)
87     local_env = dict(os.environ)
88     local_env["NOSE_APPLICATION_DIRECTORY"] = kcidb_options["credentials"]
89     kcidb_path = kcidb_options.get("kcidb_path", "")
90     kcidb_submit = os.path.join(kcidb_path, "kcidb-submit")
91     p = subprocess.Popen(kcidb_submit,
92
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```

265 lines (235 sloc) | 8.77 KB



KernelCI GKernelCI/Ghelper

```
nkondras@ruby:~/projects/github.com/GKernelCI/Ghelper/kcidb$ wc -l *
136 create_object.py
  0 get_kernel_hash.py
  5 get_kernel_hash.sh
18  get_patches.py
  5 get_patch_hash.sh
  3 requirements.txt
12 send.sh
14 sendtokcidb
193 total
nkondras@ruby:~/projects/github.com/GKernelCI/Ghelper/kcidb$
```



KernelCI GKernelCI/Ghelper

```
nkondras@ruby:~/projects/github.com/GKernelCI/Ghelper/kcidb$ wc -l *
136 create_object.py
  0 get_kernel_hash.py
  5 get_kernel_hash.sh
18  get_patches.py
  5 get_patch_hash.sh
  3 requirements.txt
12 send.sh
14 sendtokcidb
193 total
nkondras@ruby:~/projects/github.com/GKernelCI/Ghelper/kcidb$
```


KernelCI syzkaller/client.go

```
186 lines (174 sloc) 5.25 KB
1 // Copyright 2020 syzkaller project authors. All rights reserved.
2 // Use of this source code is governed by Apache 2 LICENSE that can be found in the LICENSE file.
3
4 package kcidb
5
6 import (
7     "bytes"
8     "context"
9     "encoding/json"
10    "fmt"
11    "os"
12    "os/exec"
13    "strings"
14    "time"
15
16    "cloud.google.com/go/pubsub"
17    "github.com/google/syzkaller/dashboard/dashapi"
18    "github.com/google/syzkaller/syztargets"
19    "google.golang.org/api/option"
20
21 )
22
23 type Client struct {
24     ctx context.Context
25     origin string
26     client pubsub.Client
27     topic *pubsub.Topic
28 }
29
30 // NewClient creates a new client to send pubsub messages to Kcidb.
31 // Origin is how this system identified in Kcidb, e.g. "syzbot_fedora".
32 // Project is Kcidb GCE project name, e.g. "kernelci-production".
33 // Topic is pubsub topic to publish messages to, e.g. "background-kernelci_new".
34 // Credentials is Google application credentials file contents to use for authorization.
35 func NewClient(ctx context.Context, origin, project, topic string, credentials []byte) (*Client, error) {
36     client, err := pubsub.NewClient(ctx, project, option.WithCredentialsJSON(credentials))
37     if err != nil {
38         return nil, err
39     }
40     c := &Client{
41         ctx: ctx,
42         origin: origin,
43         client: client,
44         topic: client.Topic(topic),
45     }
46     return c, err
47 }
48
49 func (c *Client) Close() error {
50     c.topic.Stop()
51     return c.client.Close()
52 }
53
54 func (c *Client) Publish(bug *dashapi.BugReport) error {
55     target := targets.List[bug.OS][bug.VMArch]
56     if target == nil {
57         return fmt.Errorf("unsupported OS/arch %v/%v", bug.OS, bug.VMArch)
58     }
59     data, err := json.MarshalIndent(c.convert(target, bug, ""), "", " ")
60     if err != nil {
61         return fmt.Errorf("failed to marshal kcidb json: %v", err)
62     }
63 }
```

```
64
65     if err := kcidb.Validate(data); err != nil {
66         return err
67     }
68     _, err = c.topic.Publish(c.ctx, &pubsub.Message{Data: data}).Get(c.ctx)
69     return err
70 }
71
72 var Validate bool
73
74 func kcidbValidate(data []byte) error {
75     if !Validate {
76         return nil
77     }
78     const bin = "kcidb-validate"
79     if _, err := exec.LookPath(bin); err != nil {
80         fmt.Printf("os.Stder, %v is not found\n", bin)
81         return nil
82     }
83     cmd := exec.Command(bin)
84     cmd.Stdin = bytes.NewReader(data)
85     output, err := cmd.CombineOutput()
86     if err != nil {
87         return fmt.Errorf("%v failed (%v) on %v\n\nerror: %s",
88             bin, err, data, output)
89     }
90     return nil
91 }
92
93 func (c *Client) convert(target *targets.Target, bug *dashapi.BugReport) *Kcidb {
94     res := &Kcidb{
95         Version: &Revision{
96             Major: 3,
97             Minor: 0,
98         },
99         Revisions: []Revision{
100             {
101                 Origin: c.origin,
102                 Bug: &KernelCommit{
103                     ID: bug.KernelCommit,
104                     GitRepositoryURL: normalizeRepo(bug.KernelRepo),
105                     GitCommitHash: bug.KernelCommit,
106                     GitRepositoryBranch: bug.KernelBranch,
107                     Description: bug.KernelCommitTitle,
108                     PublishingTime: bug.KernelCommitDate.Format(time.RFC3339),
109                     DiscoverTime: bug.BuildTime.Format(time.RFC3339),
110                     Valid: true,
111             },
112         },
113     },
114     Builds: []Build{
115         {
116             Origin: c.origin,
117             ID: c.extID(bug.BuildID),
118             RevisionID: bug.KernelCommit,
119             Architecture: target.KernelArch,
120             Compiler: bug.CompilerID,
121             StartTime: bug.BuildTime.Format(time.RFC3339),
122             ConfigURL: bug.KernelConfigLink,
123             Valid: true,
124         },
125     },
126 }
```

```
127
128     buildLogURL = bug.LogLink
129     buildMisc = &BuildMisc{
130         OriginURL: bug.Link,
131         ReportedBy: bug.CreditEmail,
132     }
133     } else {
134         var outputFiles []Resource
135         if bug.ReportLink != "" {
136             outputFiles = append(outputFiles, &Resource{Name: "report.txt", URL: bug.ReportLink})
137         }
138         if bug.LogLink != "" {
139             outputFiles = append(outputFiles, &Resource{Name: "log.txt", URL: bug.LogLink})
140         }
141         if bug.ReproClick != "" {
142             outputFiles = append(outputFiles, &Resource{Name: "repro.c", URL: bug.ReproClick})
143         }
144         if bug.ReproSyzLink != "" {
145             outputFiles = append(outputFiles, &Resource{Name: "repro.syz.txt", URL: bug.ReproSyzLink})
146         }
147         if bug.MachineInfoLink != "" {
148             outputFiles = append(outputFiles, &Resource{Name: "machine_info.txt", URL: bug.MachineInfoLink})
149         }
150         causeRevisionID := ""
151         if bug.BisectCause != nil && bug.BisectCause.Commit != nil {
152             causeRevisionID = bug.BisectCause.Commit.Hash
153         }
154         res.Tests = []Test{
155             {
156                 Origin: c.origin,
157                 ID: c.extID(bug.ID),
158                 BuildID: c.extID(bug.BuildID),
159                 Path: "syzkaller",
160                 StartTime: bug.CrashTime.Format(time.RFC3339),
161                 OutputFiles: outputFiles,
162                 Description: bug.Title,
163                 Status: "FAIL",
164                 Waived: false,
165                 Misc: &TestMisc{
166                     OriginURL: bug.Link,
167                     ReportedBy: bug.CreditEmail,
168                     UserSpaceArch: bug.UserSpaceArch,
169                     CauseRevisionID: causeRevisionID,
170                 },
171             },
172         },
173     }
174     return res
175 }
176
177 func normalizeRepo(repo string) string {
178     // Kcidb needs normalized repo addresses to match reports from different
179     // origins and with subscriptions. "https://" is always preferred over "git:"
180     // where available. Unfortunately we don't know where it's available
181     // and where it isn't. We know that "https://" is supported on kernel.org
182     // and that's the main case we need to fix up. "https://" is always used
183     // for github.com and googlesource.com.
184     return strings.Replace(repo, "git://git.kernel.org", "https://git.kernel.org", -1)
185 }
186
187 func (c *Client) extID(id string) string {
188     return c.origin + "-" + id
189 }
```




KernelCI syzkaller/client.go

```

186 lines (174 sloc) 5.25 KB
1 // Copyright 2020 syzkaller project authors. All rights reserved.
2 // Use of this source code is governed by Apache 2 LICENSE that can be found in the LICENSE file.
3
4 package kcidb
5
6 import (
7     "bytes"
8     "context"
9     "encoding/json"
10    "fmt"
11    "os"
12    "os/exec"
13    "strings"
14    "time"
15
16    "cloud.google.com/go/pubsub"
17    "github.com/google/syzkaller/dashboard/dashapi"
18    "github.com/google/syzkaller/syztargets"
19    "google.golang.org/api/option"
20 )
21
22 type Client struct {
23     ctx context.Context
24     origin string
25     client *pubsub.Client
26     topic *pubsub.Topic
27 }
28
29 // NewClient creates a new client to send
30 // Origin is how this system identified itself
31 // Project is Kcidb OCE project name, e.g
32 // Topic is pubsub topic to publish messages
33 // Credentials is Google application credentials
34 func NewClient(ctx context.Context, origin string, creds []byte) (*Client, error) {
35     client, err := pubsub.NewClient(ctx, "https://pubsub.googleapis.com",
36         option.WithCredentialsJSON(creds))
37     if err != nil {
38         return nil, err
39     }
40     c := &Client{
41         ctx: ctx,
42         origin: origin,
43         client: client,
44         topic: client.Topic(topic),
45     }
46     return c, err
47 }
48
49 func (c *Client) Close() error {
50     c.topic.Stop()
51     return c.client.Close()
52 }
53
54 func (c *Client) Publish(msg *dashapi.BugReport) error {
55     target := targets.List[bug.OS][bug.VMArch]
56     if target == nil {
57         return fmt.Errorf("unsupported OS/arch %v/%v", bug.OS, bug.VMArch)
58     }
59     data, err := json.MarshalIndent(c.convert(target, bug), "", " ")
60     if err != nil {
61         return fmt.Errorf("failed to marshal kcidb json: %v", err)
62     }
63 }

```

```

64     if err := kcidbValidate(data); err != nil {
65         return err
66     }
67     _, err = c.topic.Publish(c.ctx, &pubsub.Message{Data: data}).Get(c.ctx)
68     return err
69 }
70
71 var Validate bool
72
73 func kcidbValidate(data []byte) error {
74     if !Validate {
75         return nil
76     }
77     const bin = "kcidb-validate"
78     if _, err := exec.LookPath(bin); err != nil {
79         fmt.Printf("os.Stdev, %v is not found\n", bin)
80         return nil
81     }
82     cmd := exec.Command(bin)
83     cmd.Stdin = bytes.NewReader(data)
84     output, err := cmd.CombineOutput()
85     if err != nil {
86         return fmt.Errorf("%v failed (%v) on %v\n%v\nerror: %s",
87             bin, err, data, output)
88     }
89 }

```

```

120 buildLogURL = bug.LogLink
121 buildMisc = &buildMisc{
122     OriginURL: bug.Link,
123     ReportedBy: bug.CreditEmail,
124 }
125 }
126 } else {
127     var outputFiles []Resource
128     if bug.ReportLink != "" {
129         outputFiles = append(outputFiles, &Resource{Name: "report.txt", URL: bug.ReportLink})
130     }
131     if bug.LogLink != "" {
132         outputFiles = append(outputFiles, &Resource{Name: "log.txt", URL: bug.LogLink})
133     }
134     if bug.ReproLink != "" {
135         outputFiles = append(outputFiles, &Resource{Name: "repro.c", URL: bug.ReproLink})
136     }
137     if bug.ReproSyzLink != "" {
138         outputFiles = append(outputFiles, &Resource{Name: "repro.syz.txt", URL: bug.ReproSyzLink})
139     }
140     if bug.MachineInfoLink != "" {
141         outputFiles = append(outputFiles, &Resource{Name: "machine_info.txt", URL: bug.MachineInfoLink})
142     }
143     causeRevisionID := ""
144     if bug.BisectCause != nil && bug.BisectCause.Commit != nil {
145         causeRevisionID = bug.BisectCause.Commit.Hash
146     }
147     buildMisc := &buildMisc{
148         OriginURL: bug.Link,
149         ReportedBy: bug.CreditEmail,
150         UserSpaceArch: bug.UserSpaceArch,
151         CauseRevisionID: causeRevisionID,
152     }
153     return res
154 }
155
156 func normalizeRepo(repo string) string {
157     // Kcidb needs normalized repo addresses to match reports from different
158     // origins and with subscriptions. "https://" is always preferred over "git:"
159     // where available. Unfortunately we don't know where it's available
160     // and where it isn't. We know that "https://" is supported on kernel.org
161     // and that's the main case we need to fix up. "https://" is always used
162     // for github.com and googlesource.com.
163     return strings.Replace(repo, "git://git.kernel.org", "https://git.kernel.org", -1)
164 }
165
166 func (c *Client) extID(id string) string {
167     return c.origin + " " + id
168 }

```

186 lines (174 sloc) | 5.25 KB

432 Lines (324 sloc) | 13.6 KB

Raw Blame

How to submit reports with KCIDB

Here's what you need to do.

1. Get submission credentials and parameters.
2. Install KCIDB.
3. Generate some report data.
4. Submit report data.
5. Go to 3, if you have more.

You don't need to run a daemon, just execute command-line tools (or use the Python 3 library, if you're feeling fancy).

1. Get submission credentials and parameters

Write to kernelci@groups.io, introduce yourself, and explain what you want to submit (better, show preliminary report data). Once your request is approved, you will get a JSON credentials file, which you can use to authenticate yourself with KCIDB tools/library.

Export the file location (here `~/.kcidb-credentials.json`) into environment like this:

```
export GOOGLE_APPLICATION_CREDENTIALS=~/.kcidb-credentials.json
```

You will also need to specify some or all of the following to the tools/library (using current production parameters from here on):

- Google Cloud project: `kernelci-production`
- Submission queue topic: `kernelci_new`
- Dataset name: `kernelci04`

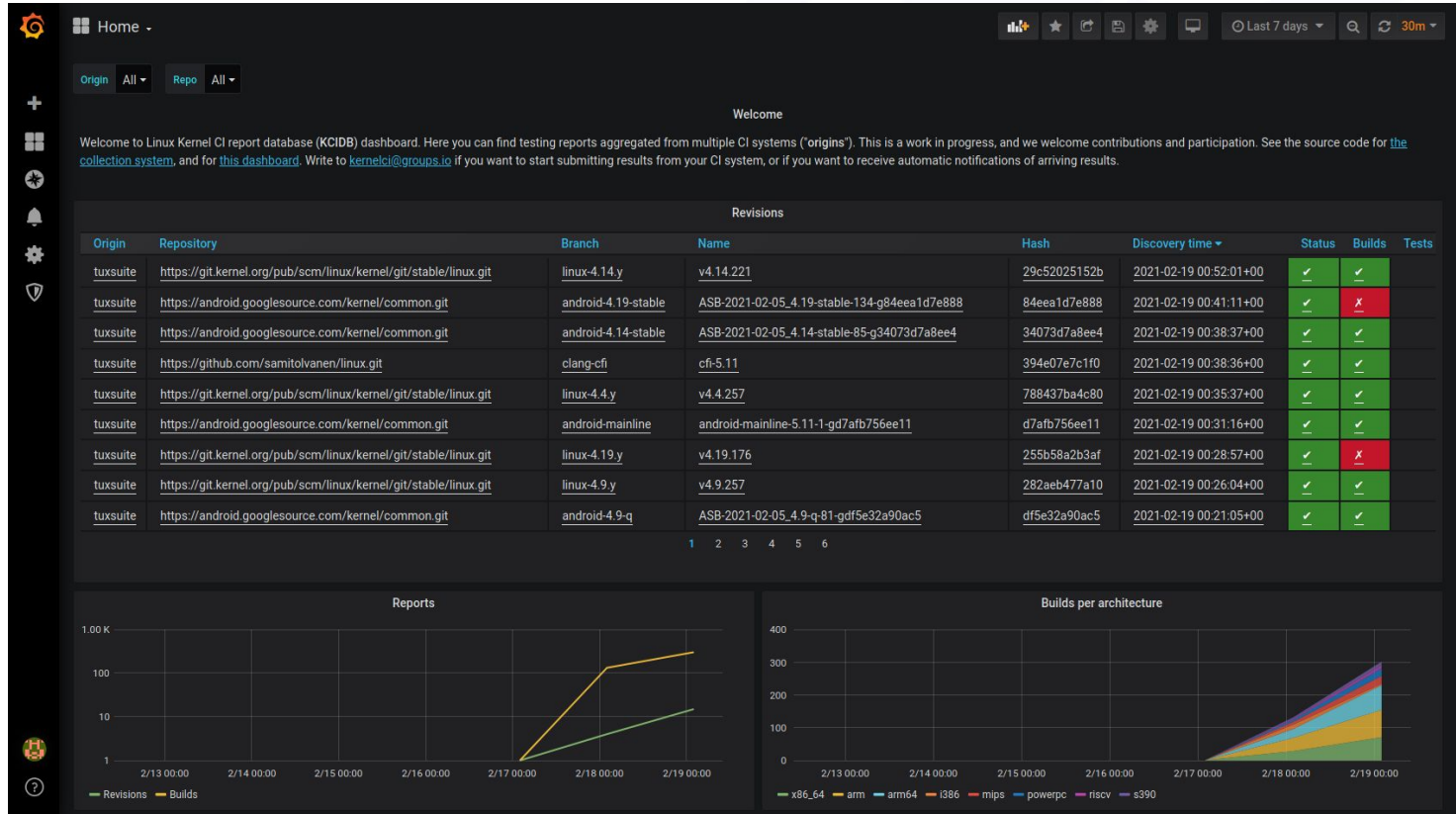
Finally, we'll need to agree on the "origin" string identifying your system among other submitters. We'll use `submitter` in examples below.

2. Install KCIDB

Pick a KCIDB [release](#). Latest would normally be best.

Let's say you picked v8. Run this:

KernelCI Playground



Now

▲ KCIDB v8 ▲

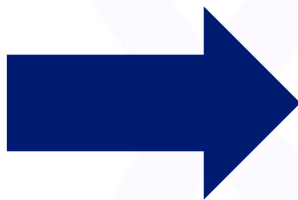
▼ KCIDB v9 ▼

Spring 2021

KernelCI I/O Schema v4 - "revision" rename

Revision

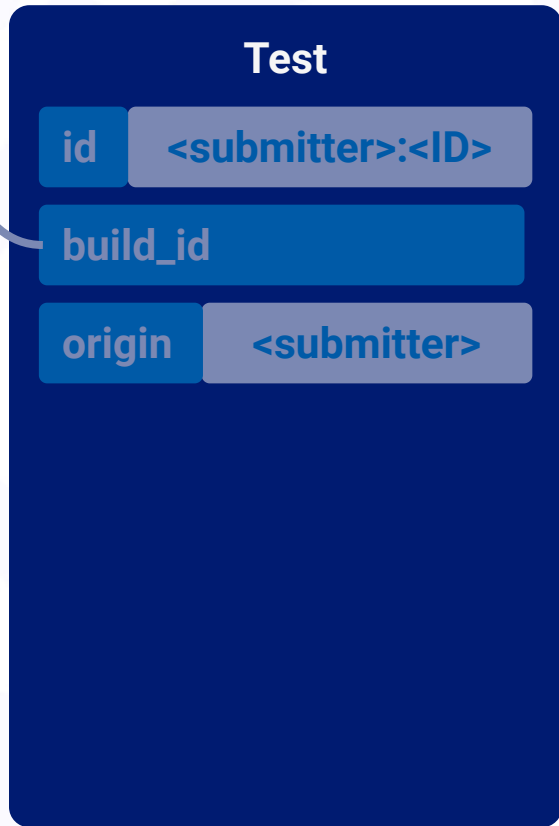
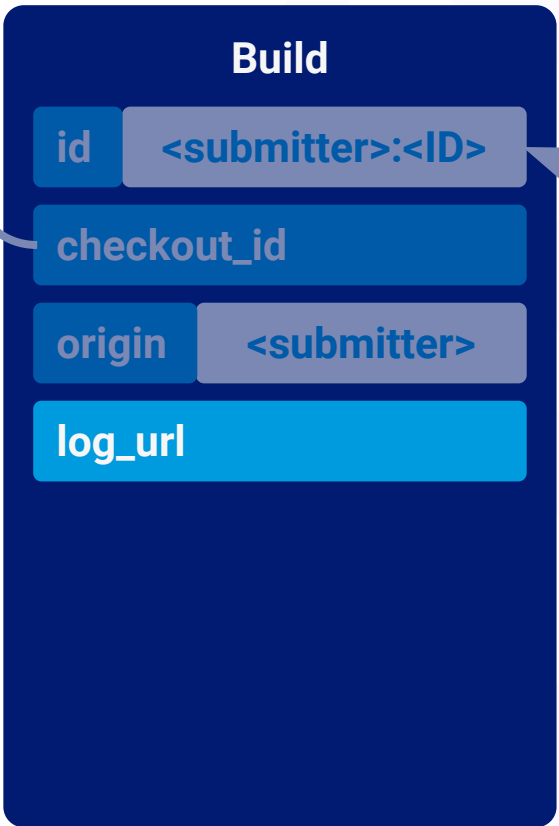
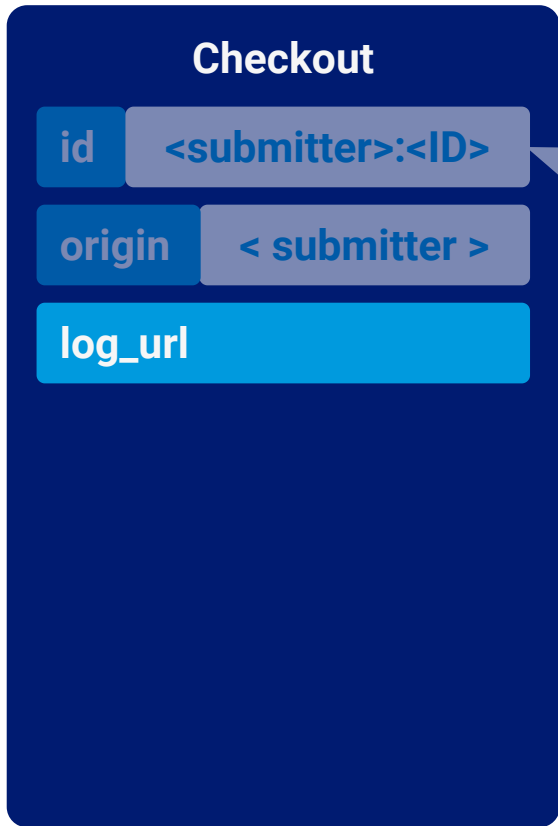
id	<commit hash>+<patchset hash>
origin	<submitter>
git_commit_hash	
patch_mboxes	



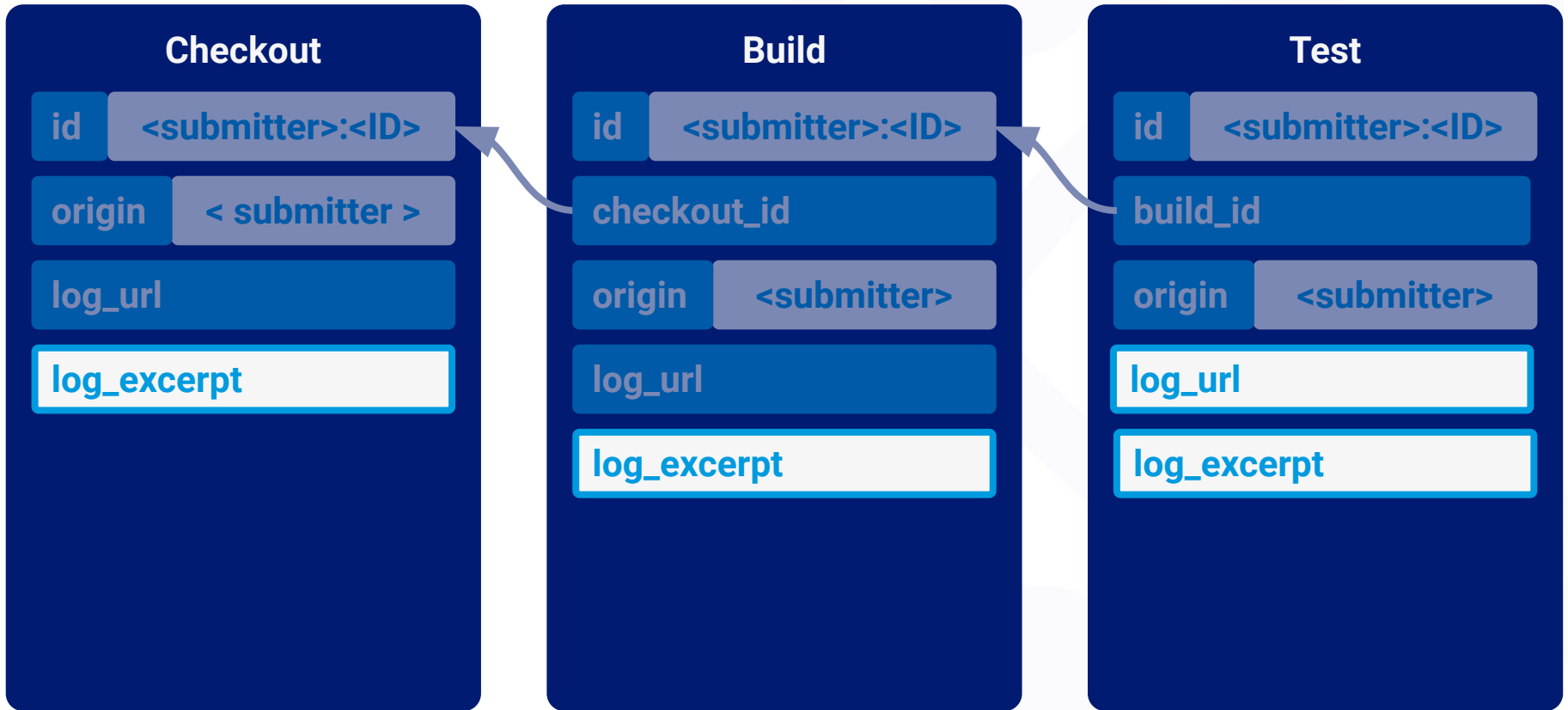
Checkout

id	<submitter>:<ID>
origin	<submitter>
git_commit_hash	
patchset_hash	
patchset_files	

KernelCI I/O Schema v4 - log excerpts



KernelCI I/O Schema v4 - log excerpts



KernelCI New DB backend



Google
BigQuery

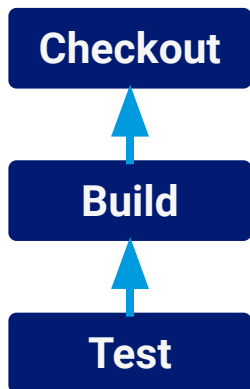
KernelCI New DB backend



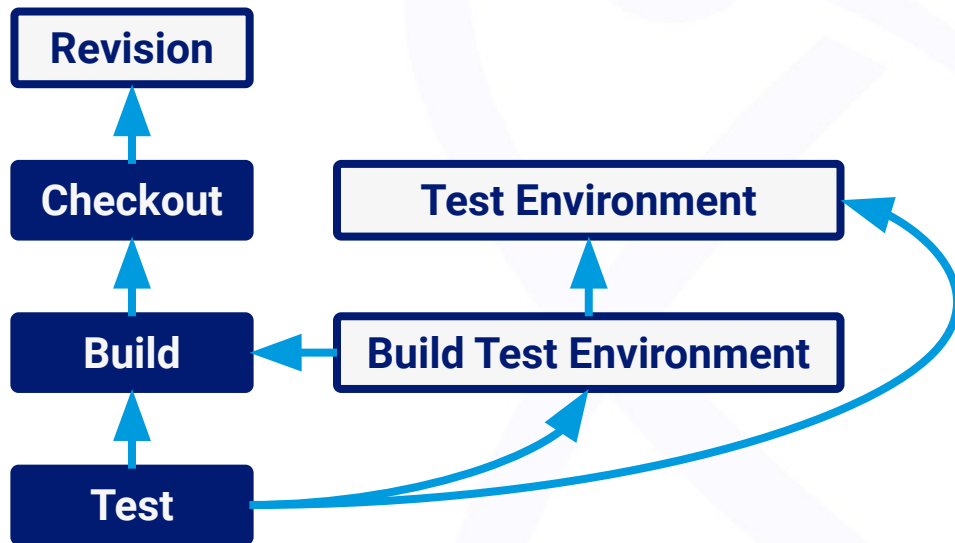
Google
BigQuery



SQLite



Subscription/Notification rework



Spring 2021

▲ **KCIDB v9** ▲

▼ **KCIDB v?** ▼

Checkout

Build

Test

Issue

Incident

Checkout

Build

Test

Issue

Incident

Linters - Accommodating 0-Day

Checkout

Check

Build

Test

Levenshtein distance over JSON?

Weighted property comparison?

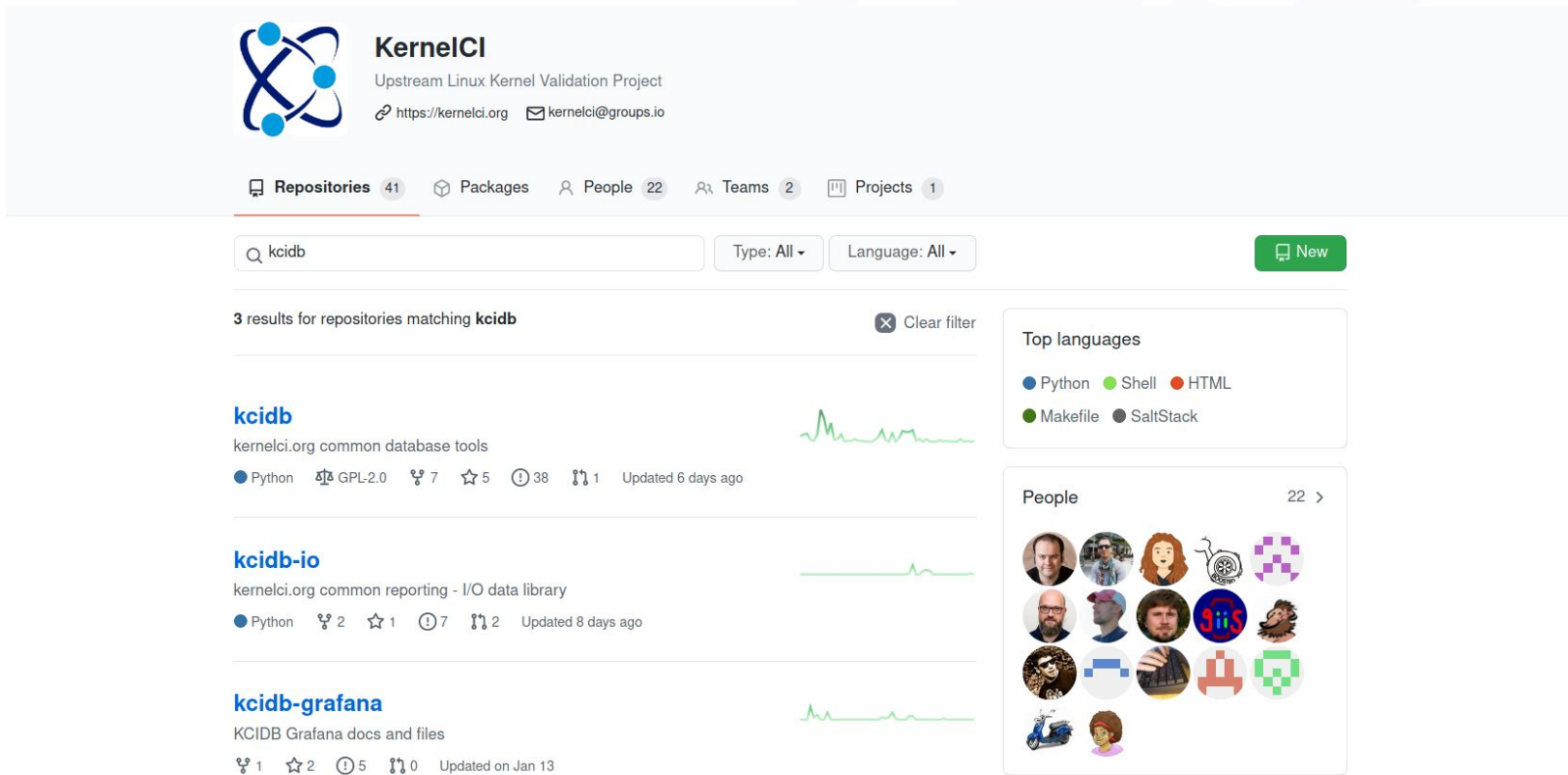
Bisections?

Benchmarks?



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KernelCI
Upstream Linux Kernel Validation Project
https://kernelci.org | kernelci@groups.io

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- kcidb-io**
kernelci.org common reporting - I/O data library
Python | 2 forks | 1 star | 7 issues | 2 pull requests | Updated 8 days ago
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KCIDB Grafana docs and files
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- kernelci/kcidb #157

[bigquery: Add and use a single function for queries](#)

To reduce code duplication implement a single querying function to be called by dump()/query()/oo_query()/etc. in the BigQuery database code. Add DEBUG-level logging of queries and their parameters.

good first issue
spbnick
- kernelci/kcidb-io #9

[Mark all symbols not supposed to be exposed as private](#)

Figure out the correct way for, and mark all symbols not explicitly supposed to be exposed as private to avoid unintended use and unnecessary coupling.

good first issue
spbnick
- kernelci/kcidb #111

[Upgrade google-cloud-secret-manager dependency](#)

The latest release of the google-cloud-secret-manager package breaks the existing KCIDB code, and was pinned to versions <2.0.0dev. Fix the incompatibilities and unpin the package. Or perhaps re-pin ...

good first issue
spbnick
- kernelci/kcidb #110

[Upgrade google-cloud-pubsub dependency](#)

The latest release of the google-cloud-pubsub package breaks the existing KCIDB code, and was pinned to versions <2.0.0dev. Fix the incompatibilities and unpin the package. Or perhaps re-pin to <3.0.0dev. ...

good first issue

- Home
- Subscription
- Messages
- Hashtags
- New Topic
- New Poll
- Chats
- Directory
- Calendar
- Photos
- Files
- Databases
- Wiki



KernelCI

KernelCI kernelci@groups.io

Discussion mailing list for the KernelCI project and kernelci.org
See also the [wiki](#) on GitHub

Group Information

- <https://kernelci.org>
- 75 Members
- 331 Topics, Last Post: Feb 9
- Started on 17.03.2018
- [Feed](#)

Group Email Addresses

Post: kernelci@groups.io
Subscribe: kernelci+subscribe@groups.io
Unsubscribe: kernelci+unsubscribe@groups.io
Group Owner: kernelci+owner@groups.io
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- [#KCIDB](#) 3

Group Settings

- All members can post to the group.
- Posts to this group do not require approval from the moderators.
- Posts from new users require approval from the moderators.
- Messages are set to reply to group and sender.
- Subscriptions to this group do not require approval from the moderators.
- Archive is visible to anyone.
- Wiki is visible to members only.
- Members cannot edit their messages.
- Members can set their subscriptions to no email.

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[#KCIDB](#) **3**

...

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#kernelci at freenode.net

#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

Thank you

