

As someone who cares about the kernel...

1. I want to be notified (through bisection reports) of regressions caused by patches I wrote or was involved in so *that* I can see the logs in the KernelCI web interface, investigate and reproduce the issue.
 - a. Today we only show KernelCI regressions and it is not integrated with KCIDB (yet) as there is no regression identification support there.
2. I want to be notified of resolved regressions caused by patches I wrote or was involved in so *that* I know when I can stop worrying about it and which patch caused the regression.

As a kernel/subsystem maintainer...

1. I want to check for regressions in my branch for specific commit heads tested by KernelCI so *that* I can fix the issues or remove the culprit patches before sending a pull request
 - a. In the case of stable trees I want to check if a new stable release candidate has any regression compared to the previous stable release
 - b. If it is a performance regression, I want to see a comparison between the current and previous data for the testcases. Additionally, historical trends can be created to help understand the impact of deviations.
 - c. Boot time and measuring the kernel binary size are two basic test cases we want to see, including historical trends for different .config files.
2. I want to check if a failure/regression doesn't happen in any other branches we have results for so *that* I can investigate the source of the issue.
3. I want to know if my code/subsystem is being tested, including a coverage report detailing tests and percentage of coverage per platform so *that* I can look into increasing the coverage where needed. ([github comment](#))
4. I want to see, for large test batches, a separation between tests that flake and tests that are showing new failures (i.e., they start to fail consistently) so *that* I can be notified without the noise of flake tests all the time. ([github comment](#))
 - a. This could probably be generalized to some sort of statistical operation.
Generally, any deviation from the normal result pattern could be reported.
5. I want to see automatic review replies with a Tested-by tag if the patchset successfully passed all tests so *that* I know that KernelCI finished all its tests ([github comment](#))

As a driver developer/maintainer...

1. I want to see all boots and tests for a specific hardware/driver so *that* I can investigate the behavior of the driver in many different scenarios.
2. I want to see all tests that include a specific commit so *that* I can investigate the behavior of the patch in many different platforms and scenarios.

3. I want to be able to run a reduced set of tests, such as smoke-tests running for only a few minutes, to get quick feedback so *that* I can identify big failures earlier before pushing for longer and more elaborated testing. (maintainers could use different branches for quick and deep test runs).

As a downstream/product branch maintainer...

1. I want to be sure that stable releases are well tested and don't have regressions. If they do have regressions, I want to know what they are before merging a stable release into our downstream branches so *that* I can minimize the issues with my product kernel.
 - This means we may need to highlight certain releases in the Web Dashboard so it is easy for users to find and navigate through them.

As an OEM/Hardware vendor...

1. I want to see all results for a specific platform on mainline, next and various stable releases so *that* I can plan kernel upgrade efforts and where to focus development on.

As a DUT lab operator...

1. I want to view the status of hardware, jobs schedule and the history of jobs for a specific lab so *that* I can understand how my lab is performing for KernelCI and look into improvements to my infrastructure to optimize usage.

As a regular/curious KernelCI.org visitor...

1. I want to see the new regressions highlighted in the dashboard so *that* I can navigate through them and study different regressions in the kernel.
2. I want to see pass/fail trends (graphs, histograms, etc..) filtered in various ways possible.
3. I want to see job history on all devices with a specific hardware / SoC
4. I want to see a list of all hardware / SoC currently tested in all labs

Extra or more specific requests...

- I want to request KernelCI to automatically test a specific patchset on a specific set of kernel trees with a specific kernel config so that I can test my patches on a variety of platforms I don't have physical access to. Such a request can happen as a response to a regression (in this case we can link the submission to the dissection report) or at will by the kernel developer. ([github comment](#))
 - a. may be possible only with native tests today

- b. we would need to flag which tests/platform will support this feature
 - c. not a feature for the first iteration of the dashboard
- I want to slice and dice warnings by toolchain and toolchain version so *that* I can see which errors or warnings are compiler specific or need to be fixed.
 - d. it would require a lot of parsing to compare the warning logs, possibly creating an log item for each warning
 - e. not a feature for the first iteration of the dashboard