

# Linux kernel in Chrome OS - scaling to millions of users

*Monday, September 20, 2021 8:00 AM (45 minutes)*

Jesse Barnes, Chrome OS baseOS (Firmware+Kernel) lead, and myself would like to present the current state of affairs of the Linux kernel on ChromeOS and the challenges we face, how we solve them and get your feedback.

We can also talk about how our efforts can help upstream development, for example by running experiments in the field to compare approaches to a specific problem or area.

Shipping ChromeOS to millions of users that span across hundreds of different platforms, multiple active kernel versions and across many different SoC architectures, introduces interesting challenges:

- Testing the upstream RC on as many platforms as we can as early as we can.
- Updating the Linux kernel on existing platforms (millions of users at a time).
- Managing technical “debt” and keeping the ChromeOS kernel as close as possible to the upstream kernel.
- Current pain points in dealing with upstream?

We feel 45-60 minutes would be enough and will allow a discussion.

Thanks a lot in advance,

Alex Levin,  
ChromeOS platform tech lead.

## I agree to abide by the anti-harassment policy

I agree

**Primary authors:** LEVIN, Alex; Mr BARNES, Jesse

**Presenters:** LEVIN, Alex; Mr BARNES, Jesse

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