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## Make `sync_state()/handoff` work for the common clk framework

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There have been multiple[1] attempts[2] to implement `sync_state()` or `handoff`[3] for the common clk framework so that clks which are left enabled while booting Linux aren't disabled during `lateinit` when unused clks are disabled. The most common reason to do this is to display a boot splash screen until the display driver can probe and enable the clks itself. All attempts to implement a solution to this problem have failed. The most recent attempt[1] didn't properly handle edge cases such as parent-child dependencies between clk controller devices and handing off the enable state from boot. We'll discuss the problem, go over the attempts to solve this, and also investigate what other subsystems (regulator, interconnect) and firmwares (ACPI) have done to solve the problem.

[1] <https://lore.kernel.org/r/20221227204528.1899863-1-abel.vesa@linaro.org>

[2] <https://lore.kernel.org/r/20210407034456.516204-1-saravanak@google.com>

[3] <https://lore.kernel.org/r/1455225554-13267-1-git-send-email-mturquette@baylibre.com>

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