

USB port LED trigger

This LED trigger can be used for signalling to the user a presence of USB device in a given port. It simply turns on LED when device appears and turns it off when it disappears.

It requires selecting USB ports that should be observed. All available ones are listed as separated entries in a "ports" subdirectory. Selecting is handled by echoing "1" to a chosen port.

Please note that this trigger allows selecting multiple USB ports for a single LED.

This can be useful in two cases:

1) Device with single USB LED and few physical ports

In such a case LED will be turned on as long as there is at least one connected USB device.

2) Device with a physical port handled by few controllers

Some devices may have one controller per PHY standard. E.g. USB 3.0 physical port may be handled by ohci-platform, ehci-platform and xhci-hcd. If there is only one LED user will most likely want to assign ports from all 3 hubs.

This trigger can be activated from user space on led class devices as shown below:

```
echo usbport > trigger
```

This adds sysfs attributes to the LED that are documented in: [Documentation/ABI/testing/sysfs-class-led-trigger-usbport](#)

Example use-case:

```
echo usbport > trigger
echo 1 > ports/usb1-port1
echo 1 > ports/usb2-port1
cat ports/usb1-port1
echo 0 > ports/usb1-port1
```