

# Kernel driver for Spreadtrum SC27XX

## `/sys/class/leds/<led>/hw_pattern`

Specify a hardware pattern for the SC27XX LED. For the SC27XX LED controller, it only supports 4 stages to make a single hardware pattern, which is used to configure the rise time, high time, fall time and low time for the breathing mode.

For the breathing mode, the SC27XX LED only expects one brightness for the high stage. To be compatible with the hardware pattern format, we should set brightness as 0 for rise stage, fall stage and low stage.

- Min stage duration: 125 ms
- Max stage duration: 31875 ms

Since the stage duration step is 125 ms, the duration should be a multiplier of 125, like 125ms, 250ms, 375ms, 500ms ... 31875ms.

Thus the format of the hardware pattern values should be: "0 rise\_duration brightness high\_duration 0 fall\_duration 0 low\_duration".