NAME

libinput-analyze-per-slot-delta - analyze the per-event delta movement for touch slots

SYNOPSIS

libinput analyze per-slot-delta [--help] [options] *recording.yml*

DESCRIPTION

The **libinput analyze per-slot-delta** tool analyzes a recording made with **libinput record** and prints the delta movement per touch slot.

This is a debugging tool only, its output may change at any time. Do not rely on the output.

OPTIONS

--help Print help

--ignore-below=<units or mm>

Ignore any movement below the given threshold. The threshold is in mm if **--use-mm** is selected or in device units otherwise.

--threshold=<units or mm>

Color any movement above this threshold in red. The threshold is in mm if **--use-mm** is selected or in device units otherwise.

--use-mm

Print data in mm instead of device units

--use-st Use the single-touch ABS_X/ABS_Y instead of the multitouch axes

--use-absolute

Print absolute coordinates, not deltas

OUTPUT

An example output for a single finger touch on a touchpad supporting two slots is below. This output is with the use of the **--use-mm** flag.

```
 0.000000   +0ms TOU:     ++++++     | ********** |
 0.021900  +21ms TOU: -><?> +1.10/+0.14 |  ********** |
 0.033468  +11ms TOU: -><?> +1.15/+0.19 |  ********** |
 0.043856  +10ms TOU: -><?> +1.76/+0.22 |  ********** |
 0.053237   +9ms TOU: -><?> +2.20/+0.19 |  ********** |
```

The entry **++++++** indicates a finger has been put down, **------** indicates the finger has lifted. The left-most column is the absolute timestamp in seconds.microseconds followed by the relative time of the event to the previous event.

The word **TOU** in this example represents BTN_TOUCH, similar abbreviations exist for BTN_TOOL_DOUBLETAP, BTN_TOOL_TRIPLETAP, BTN_TOOL_QUADTAP, and BTN_TOOL_QUINTTAP.

The arrows indicate the approximate direction on a 16-point compass, in this example EastSouthEast.

Each multitouch slot supported by the hardware has one column, where the column shows asterisk ************ no finger is down for that slot. Where the column shows spaces only, a finger is down but no data is currently available.

In the above example, the third events occurs ~33ms into the recording, is 11ms after the previous event and has an east south-east direction. The movement for this event was x: 1.15 and y: 0.19 mm. A second finger is not currently down.

LIBINPUT

Part of the **libinput(1)** suite