Tabelle1

Testmatrix issue-48-Segfault-with-K70-RGB-in-BIOS-mode

Stop daemon on each KB-switch-change

Starting daemon with KB...	plugged in	not plugged in		Mouse plugged in	Mouse un-/replug
KB switch					
BIOS	from 1ms to BIOS, 0 endpoints detected	in BIOS mode working, detects 1 endpoint; needed ca. 15 seconds to start driver		M65 RGB running with and w/o daemon	
	Switching from BIOS to 8ms, 0 endpoints detected; multiple restarts because it detects 0 endpoints	working in that mode, but needed ca. 12 seconds for the detection in the driver		M65 RGB running with and w/o daemon	
8 ms	from 8ms to 4ms; neds ca. 5 seconds for the driver to detect state change	can't start device again for several tries: systemd-udevd marns: „seq 6002 '/devices/pci0000:00/0000:00:14.0/usb3/3-11' is taking a long time". Daemon waits in the USB driver for a long time. Had to kill ckb-daemon with SIGKILL. Removed /dev/device/ckb0 afterwards.		M65 RGB running with and w/o daemon	
4 ms	from 4ms to 2ms; neds ca. 10 seconds for the driver to detect state change	from 4ms to 2ms all ok		M65 RGB running with and w/o daemon	
2 ms	Switching from 2ms to 1ms, 0 endpoints detected; first restart successful	from 2ms to 1ms all ok		M65 RGB running with and w/o daemon	
1 ms					

Changing KB-switch with running daemon

Starting daemon with KB...	plugged in	not plugged in		Mouse plugged in	Mouse un-/replug
KB switch					
BIOS	from 1ms to BIOS, 0 endpoints detected; Restarting daemon with replugged KB: 1 endpoint detected, KB not running; Usb-driver needs ca. 10 seconds to detect unplugging of KB! After replugging KB, it is working in BIOS mode with 1 endpoint detected	Running daemon – unplug KB – switch from 1ms to BIOS – replug KB: After ca. 15 seconds driver detects the replugged KB and daemon is detecting 3 EPs. All running fine		Mouse M65 RGB running fine all the time. Completely independent from running or stopping daemon: only color changes are affected.	
8 ms	Switch from BIOS to 8ms: Well detected, all running	Again more than one restart neccessary. One time the daemon loops with following output: [I] Stopping input thread for /dev/input/ckb1 [I] Disconnecting /dev/input/ckb1 [I] Removed device path /dev/input/ckb1 [I] >>>vendor = 0x1b1c, product = 0x1b11, path = /dev/bus/usb/003/070, syspath = /sys/devices/pci0000:00/0000:00:14.0/usb3/3-11 [E] usbadd (usb_linux.c:345): Failed to open USB device: No such file or directory [I] >>>vendor = 0x1b1c, product = 0x1b11, path = /dev/bus/usb/003/071, syspath = /sys/devices/pci0000:00/0000:00:14.0/usb3/3-11 [I] >>>vendor = 0x1b1c, product = 0x1b12, path = /dev/bus/usb/003/045, syspath = /sys/devices/pci0000:00/0000:00:14.0/usb3/3-12 [I] Connecting at /dev/input/ckb1 [I] claiming interfaces. name=(null), serial=(null), firmware=0205; Got >><< as ep_str [E] os_setupusb (usb_linux.c:306): Possible unable to read endpoint count from udev, assuming 0 and reading >><<... [I] Disconnecting /dev/input/ckb1 [I] Removed device path /dev/input/ckb1 [I] Connecting Corsair M65 RGB Gaming Mouse at /dev/input/ckb3 [I] claiming interfaces. name=Corsair M65 RGB Gaming Mouse, serial=0D02303DAE3D8C695399981F7F5001941, firmware=0204; Got >> 3<< as ep_str [I] claiming 3 endpoints [I] Starting input thread for /dev/input/ckb3 [E] os_usbsend (via led_mouse.c:44): Device or resource busy [I] Attempting reset... [I] claiming 3 endpoints [E] os_usbsend (via profile_mouse.c:17): Device or resource busy [W] _start_dev (device.c:45): Unable to load hardware profile [I] Setup finished for /dev/input/ckb3 [E] os_usbsend (via device_mouse.c:30): Device or resource busy [I] Attempting reset... [I] Reset success [I] claiming 3 endpoints [E] os_usbsend (via led_mouse.c:44): Device or resource busy [I] Attempting reset... [I] claiming 3 endpoints [E] os_usbsend (via device_mouse.c:30): Device or resource busy [I] claiming 3 endpoints [E] os_usbsend (via device_mouse.c:34): Device or resource busy [I] claiming 3 endpoints [E] os_usbsend (via device_mouse.c:30): Cannot send after transport endpoint shutdown [I] claiming 3 endpoints [E] os_usbsend (via device_mouse.c:30): Device or resource busy [I] claiming 3 endpoints [E] os_usbsend (via device_mouse.c:34): Device or resource busy [I] claiming 3 endpoints [E] os_usbsend (via led_mouse.c:44): Device or resource busy [I] claiming 3 endpoints [E] os_usbsend (via device_mouse.c:34): Device or resource busy [I] claiming 3 endpoints [E] os_usbsend (via device_mouse.c:30): Cannot send after transport endpoint shutdown [I] claiming 3 endpoints [E] os_usbsend (via device_mouse.c:30): Cannot send after transport endpoint shutdown [I] claiming 3 endpoints [E] os_usbsend (via device_mouse.c:34): Device or resource busy [I] claiming 3 endpoints [E] os_usbsend (via device_mouse.c:30): Cannot send after transport endpoint shutdown [I] claiming 3 endpoints [E] os_usbsend (via device_mouse.c:30): Device or resource busy [I] claiming 3 endpoints [E] os_usbsend (via device_mouse.c:34): Device or resource busy ... and so on. Linux Kernel sends repeatedly following messages: 05.02.17 10:26Mainfrixkernel[5850.666167] input: Corsair Corsair M65 RGB Gaming Mouse as /devices/pci0000:00/0000:00:14.0/usb3/3-12/3-12:1.0/0003:1B1C:1B12.00CD/input/input319 05.02.17 10:26Mainfrixkernel[5850.666491] hid-generic 0003:1B1C:1B12.00CD: input,hidraw2: USB HID v1.11 Mouse [Corsair Corsair M65 RGB Gaming Mouse] on usb-0000:00:14.0-12/input0 05.02.17 10:26Mainfrixkernel[5850.667316] input: Corsair Corsair M65 RGB Gaming Mouse as /devices/pci0000:00/0000:00:14.0/usb3/3-12/3-12:1.1/0003:1B1C:1B12.00CE/input/input320 05.02.17 10:26Mainfrixkernel[5850.667637] hid-generic 0003:1B1C:1B12.00CE: input,hidraw3: USB HID v1.11 Mouse [Corsair Corsair M65 RGB Gaming Mouse] on usb-0000:00:14.0-12/input1 05.02.17 10:26Mainfrixkernel[5850.667658] usbhid 3-12:1.2: couldn't find an input interrupt endpoint 05.02.17 10:26Mainfrixkernel[5850.796790] usb 3-12: usbfs: process 26578 (ckb-daemon) did not claim interface 2 before use 05.02.17 10:26Mainfrixkernel[5851.012655] usb 3-12: reset full-speed USB device number 45 using xhci_hcd			Mouse stopps working while daemon loops
4 ms	Switch from 8ms to 4ms: Well detected, all running	From 8ms to 4ms: KB got its config error #1 (error -110) and detects 0 Eps. Unplugging & replugging helps. Daemon detects 3EPs and the KB is running.			
2 ms	Switch from 4ms to 2ms: Not running, 0 Eps detected; un-/replugged after test on the left; all detected, running KB	OK, from 4ms to 2 ms daemon detects correct 3 Eps.			
1 ms	Switch from 2ms to 1ms: Not running, 0 Eps detected; un-/replugged after test on the left; all detected, running KB	OK, from 2ms to 1 ms daemon detects correct 3 Eps.			