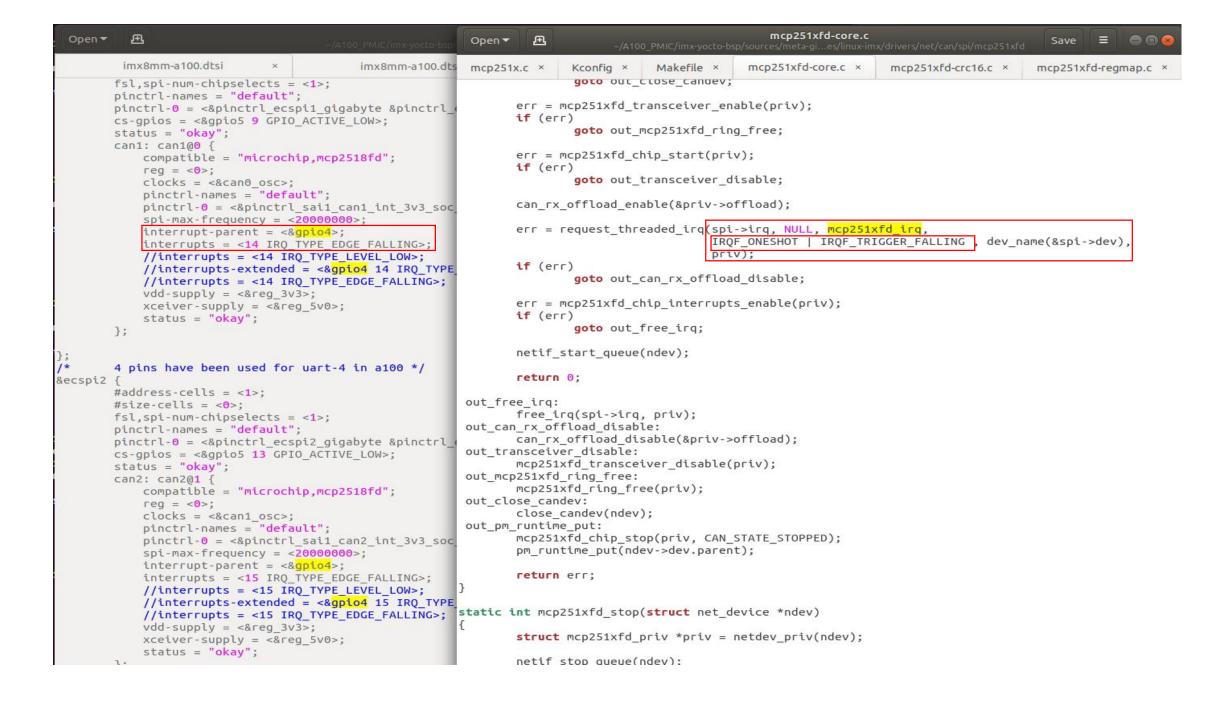
IMX8MM Interrupt issue

```
mcp251xfd-core.c
          æ
                                                           Open ▼
                                                                   æ
         imx8mm-a100.dtsi
                                           imx8mm-a100.dts
                                                          mcp251x.c ×
                                                                         Kconfig ×
                                                                                     Makefile ×
                                                                                                  mcp251xfd-core.c ×
                                                                                                                      mcp251xfd-crc16.c ×
                                                                                                                                           mcp251xfd-regmap.c ×
                                                                 tr (err)
&ecspi1 {
                                                                         goto out close candev;
        \#address-cells = <1>:
                                                                         goto out close candev;
        \#size-cells = <0>:
        fsl,spi-num-chipselects = <1>;
                                                                 err = mcp251xfd transceiver enable(priv);
        pinctrl-names = "default";
                                                                 if (err)
        pinctrl-0 = <&pinctrl ecspi1 gigabyte &pinctrl</pre>
                                                                         goto out_mcp251xfd_ring_free;
        cs-gpios = <&gpio5 9 GPIO ACTIVE LOW>;
        status = "okay";
                                                                 err = mcp251xfd chip start(priv);
        can1: can1@0 {
                                                                 if (err)
            compatible = "microchip,mcp2518fd";
                                                                         goto out transceiver disable;
            req = <0>:
            clocks = <&can0 osc>;
                                                                 can_rx_offload_enable(&priv->offload);
            pinctrl-names = "default";
            pinctrl-0 = <&pinctrl sai1 can1 int 3v3 soc
                                                                 err = request threaded irg(spi->irg, NULL, mcp251xfd irg,
            spi-max-frequency = <200000000>;
                                                                                             IROF ONESHOT | IROF TRIGGER LOW , dev name(&spi->dev),
            interrupt-parent = <&gpio4>;
                                                                                             priv);
            interrupts = <14 IRQ TYPE LEVEL LOW>;
                                                                 if (err)
            //interrupts-extended = <&qpio4 14 IRO TYPE
                                                                         goto out can rx offload disable:
            //interrupts = <14 IRO TYPE EDGE FALLING>:
            vdd-supply = <&rea 3v3>:
                                                                 err = mcp251xfd_chip_interrupts_enable(priv);
            xceiver-supply = <&req 5v0>;
                                                                 if (err)
            status = "okay";
                                                                         goto out free irq;
        };
                                                                 netif start queue(ndev);
        4 pins have been used for uart-4 in a100 */
                                                                 return 0:
&ecspi2 {
        \#address-cells = <1>:
                                                          out free irq:
        \#size-cells = <0>:
                                                                 free irg(spi->irg, priv);
        fsl,spi-num-chipselects = <1>;
                                                          out can rx offload disable:
        pinctrl-names = "default";
                                                                 can rx offload disable(&priv->offload);
        pinctrl-0 = <&pinctrl ecspi2 qiqabyte &pinctrl</pre>
                                                          out transceiver disable:
        cs-gpios = <&gpio5 13 GPIO ACTIVE LOW>;
                                                                 mcp251xfd transceiver disable(priv);
        status = "okay";
                                                          out mcp251xfd ring free:
        can2: can2@1 {
                                                                 mcp251xfd ring free(priv);
            compatible = "microchip.mcp2518fd";
                                                          out close candev:
            reg = <0>;
                                                                 close candev(ndev);
            clocks = <&can1 osc>;
                                                          out pm runtime put:
            pinctrl-names = "default";
                                                                 mcp251xfd chip stop(priv, CAN STATE STOPPED);
            pinctrl-0 = <&pinctrl sai1 can2 int 3v3 soc
                                                                 pm_runtime_put(ndev->dev.parent);
            spi-max-frequency = <20000000>;
            interrupt-parent = <&qpio4>:
                                                                 return err;
            interrupts = <15 IRQ_TYPE_LEVEL_LOW>;
            //interrupts-extended = <&qpio4 15 IRO TYPE
            //interrupts = <15 IRO TYPE EDGE FALLING>;
                                                         static int mcp251xfd_stop(struct net_device *ndev)
            vdd-supply = <&reg 3v3>;
            xceiver-supply = <&req 5v0>;
                                                                 struct mcp251xfd priv *priv = netdev priv(ndev):
```

```
Interrupt and call trace
root@al00:/# ip link set up can0 type can bitrate 500000
   55.801749] INT NO read RXIF int read data 1118 Before GPIO0 val 3030003
   55.808663] INT NO read RXIF int read data 1118 After GPIO0 val 3030002
   55.817445] XXXXXXXX mcp251xfd chip interrupts enable val to IRQ TYPE LEVEL LOW 1128 XXXX FULL 3f1a0000
   55.827418] IPv6: ADDRCONF(NETDEV CHANGE): can0: link becomes ready
root@al00:/# [ 58.336653] irg 182: nobody cared (try booting with the "irgpoll" option)
   58.343453] CPU: 0 PID: 0 Comm: swapper/0 Not tainted 5.10.72-lts-5.10.y+g22ec7e8cbace #1
   58.351628] Hardware name: FSL i.MX8MM EVK board (DT)
   58.356679] Call trace:
   58.359134] dump backtrace+0x0/0x1a0
   58.362797] show stack+0x18/0x70
   58.366115] dump stack+0xd0/0x12c
   58.369517] report bad irq+0x4c/0xdc
   58.373354] note interrupt+0x2d8/0x39c
   58.377190] handle irg event+0xd8/0x150
   58.381113] handle level irg+0xc0/0x1b0
   58.385035] generic handle irq+0x30/0x50
   58.389046] mxc gpio irq handler+0x50/0x140
   58.393316] mx3 gpio irq handler+0x80/0xf0
   58.397501] handle domain irq+0x7c/0xe0
   58.401598] gic handle irg+0xc0/0x140
   58.405345] ell irq+0xcc/0x180
   58.408489] cpuidle reflect+0x24/0x40
   58.412240] cpu startup entry+0x24/0x70
   58.416164] rest init+0xd8/0xe8
   58.419395] arch call rest init+0x10/0x1c
   58.423490] start kernel+0x4ac/0x4e4
   58.427151] handlers:
   58.429425] [<00000000416487c0>] irg default primary handler threaded [<00000000b0f09a6b>] mcp251xfd irg [mcp251xfd]
   58.439955] Disabling IRQ #182
```

Broadcast message from systemd-journald@al00 (Wed 2021-03-24 10:26:13 UTC):



```
root@al00:/# ip link set up can0 type can bitrate 500000

[ 75.065404] INT NO read RXIF int read data 1118 Before GPIO0 val 3030003

[ 75.072227] INT NO read RXIF int read data 1118 After GPIO0 val 3030002

[ 75.079540] XXXXXXXX mcp251xfd_chip_interrupts_enable val to IRQ_TYPE_LEVEL_LOW 1128 XXXX FULL 3fla0000

[ 75.090280] IPv6: ADDRCONF(NETDEV_CHANGE): can0: link becomes ready

root@al00:/#

root@al00:/#

root@al00:/#

root@al00:/# cansend can0 7DF#0201Ad

[ 90.707495] can: controller area network core

[ 90.711939] NET: Registered protocol family 29

[ 90.720827] can: raw protocol

root@al00:/#
```