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## How to determine wakeup trigger from suspend caused by PMIC IRQ?

**Solution Number** 00027777

**Please Note:**

If Qualcomm documentation is referenced in this solution, your access to it is based on your company's

**Language Key Words**

**Detail Information**

**Solution Title** How to determine wakeup trigger from suspend caused by PMIC IRQ?

**Solution Details** [ 366.151054] gic\_show\_resume\_irq: 222 triggered

This debug message in the kernel log indicates that a PMIC SPMI IRQ was the wakeup trigger from suspend.

To enable additional debug message printing use the following cmds.

```
adb root
adb wait-for-devices
adb shell mount -t debugfs none /sys/kernel/debug
adb shell "echo 8 > /proc/sys/kernel/printk"
adb shell "echo 'func qnpint_handle_irq +p' > /sys/kernel/debug/dynamic_debug/control"
```

Once the device wakes up from suspend, messages like the ones below will get printed out.

Example #1:

```
[ 26.935784] qnpint_handle_irq: spec slave = 0 per = 18 irq = 0
```

slave = 0 indicates that it is PM8941. per = 18 indicates that it is PM8941 peripheral 0x12. If we look this up in the PM8941 register document it corresponds to SMBB\_BAT\_IF\_PERPH. Looking at register 0x1218 indicates that irq = 0 corresponds to the BAT\_PRES IRQ.

Example #2:

```
[ 23.708495] qnpint_handle_irq: spec slave = 0 per = 19 irq = 1
```

slave = 0 indicates that it is PM8941. per = 19 indicates that it is PM8941 peripheral 0x13. If we look this up in the PM8941 register document it corresponds to SMBB\_USB\_CHGPTH\_PERPH. Looking at register 0x1318 indicates that irq = 1 corresponds to the USBIN\_VALID IRQ.

**Applicable Products**

PM8019, PM8110, PM8841, PM8926, PM8941, PM8962, PM8974, PMA8084-1, PMA8084-2