

## Preventing Suspend

Once you've booted the board, you'll want to turn off the automatic suspend. Since you don't have a screen what you can do is create your own Android wake lock. This will prevent the system from entering suspend. From the serial debug terminal:

```
# echo MYLOCK > /sys/power/wake_lock
```

## Regulator sysfs Interface

You can see the regulators via the sysfs interface by doing:

```
# cd /sys/class/regulator
# ls
regulator.0
regulator.1
regulator.2
regulator.3
regulator.4
regulator.5
regulator.6
regulator.7
```

Navigating into one of the regulators you can display important information about each regulator.

```
# cd regulator.0
# ls
uevent
subsystem
device
name
num_users
type
power
microvolts
opmode
state
min_microvolts
max_microvolts
suspend_standby_state
suspend_mem_state
suspend_disk_state
suspend_standby_microvolts
suspend_mem_microvolts
suspend_disk_microvolts
suspend_standby_mode
suspend_mem_mode
suspend_disk_mode
```

For instance looking at the microvolts shows the current voltage setting of the regulator.

```
# cat microvolts
1050000
```

You can view a regulators constraints by doing cat on the min/max\_microvolts.

```
# cat min_microvolts
564000
# cat max_microvolts
1167000
```

These values were actually printed during kernel bootup when the LTC3589 regulator was loaded. Here is the bootup printout:

```
regulator: SW1: 564 <--> 1167 mV at 1050 mV
regulator: SW2: 704 <--> 1456 mV at 1198 mV
regulator: SW3: 1342 <--> 2775 mV at 2497 mV
regulator: SW4:
LDO1 is always enabled
regulator: LDO1_STBY:
regulator: LDO2: 704 <--> 1456 mV at 1198 mV normal
regulator: LDO3:
regulator: LDO4: 1800 <--> 3300 mV at 1800 mV normal
```

Notice that SW1 was at 1050 mV, with a constraint to allow between 564-1167 mV. This cooresponds to what is seen in the sysfs interface.

Finally, another interesting value is the “suspend\_mem\_microvolts”. This value is what was set by the constraints in the iMX53\_ARD board file.

```
# cat suspend_mem_microvolts
950000
```

Additional documentation of this interface is available in the code at:

**/i.MX53ARD\_ImageCreator/src/kernel\_imx/Documentation/ABI/testing/  
sysfs-class-regulator**