```
1.
       regulators-mmap {
           compatible = "simple-bus";
 2.
 3.
           #address-cells = <2>;
           #size-cells = <2>;
 4.
 5.
 6.
           ranges;
 7.
           pegmatite_imgpipe_reg: pegmatite-regulator@1 {
 8.
                compatible = "pegmatite-reg";
                reg = \langle 0 \ 0xf9080008 \ 0 \ 0x160 \rangle;
 9.
10.
                init-on = \langle 1 \rangle;
11.
                clocks = <&ipsbus_imaging_clkgate>, <&scan_clkgate>, <&lvds_afe_clkg</pre>
       ate>, <&nss imaging clkgate>;
12.
                regulator-name = "pegmatite imgpipe";
13.
                dev-name = "img_pipe";
14.
                supply-name = "islandpower";
15.
           };
16.
           pegmatite_gpu_reg: pegmatite-regulator@2 {
17.
                compatible = "pegmatite-reg";
18.
                reg = \langle 0 \ 0xd0630030 \ 0 \ 0x8 \rangle;
19.
                init-on = \langle 1 \rangle;
20.
                clocks = <&apbus_gpu_clkgate>, <&gpubus_clkgate>, <&gpu_clkgate>;
21.
                regulator-name = "pegmatite_gpu";
22.
                dev-name = "gpu";
23.
                supply-name = "islandpower";
24.
           };
           pegmatite_upc_reg: pegmatite-regulator@3 {
25.
26.
                compatible = "pegmatite-reg";
27.
                reg = \langle 0 \ 0xf9080000 \ 0 \ 0x8 \rangle;
28.
                init-on = \langle 1 \rangle;
29.
                clocks = <&ipsbus_upc_clkgate>, <&xio_clkgate>, <&xcpu_clkgate>;
30.
                regulator-name = "pegmatite upc";
                dev-name = "upc0";
31.
32.
                supply-name = "islandpower";
33.
           };
34.
       };
```

即分别是"pegmatite_imgpipe", "pegmatite_gpu", "pegmatite_upc" 3个regulators.

imagepower_drvr.dev是regulator consumer的device.

获取"pegmatite_imgpipe" regulator的handle.

```
1. static struct regulator *img_regulator = 0;
2.
3. img_regulator = regulator_get(imagepower_drvr.dev, "pegmatite_imgpipe");
```

获得了regulator handle,就可以使用了

打开power

```
if (img_regulator && !regulator_enable( img_regulator )) {
    //printk(KERN_ERR "Imagepower enabled image regulator %p\n", img_regulat
    or);
    retval = 0;
} else {
    printk(KERN_ERR "Imagepower can't enable image regulator %p\n", img_regulator);
}
```

关闭power

```
1. struct regulator *r = filep->private_data;
2. if (r) {
3.    regulator_disable(r);
4.    filep->private_data = 0;
5. }
```

另外与regulator_get()对应的

```
regulator_put(img_regulator);
```

upc使用regulator

create "pegmatite" upc "regulator consumer device

```
dev_data->dev = device_create(upc_object.upc_class, NULL,

MKDEV(upc_object.upc_major, dev_data->dragonite_num),

NULL, "upc%u", dev_data->dragonite_num);
```

获取regulator handle

```
upc_object.upc_suspend_context.power = regulator_get(dev_data->dev,
"pegmatite upc");
```

enable regulator

```
regulator_disable()
regulator_force_disable()
```

```
struct regulator *r = upc_object.upc_suspend_context.power;

// power off island

if ( r && regulator_is_enabled( r ) )
   if (regulator_disable( r ))
        regulator_force_disable(r);
```

free regulator handle

```
regulator_put( upc_object.upc_suspend_context.power );
```