```
pegmatite-regulator@2 {
  compatible = "pegmatite-reg";
  reg = <0x0 0xd0630030 0x0 0x8>;
  init-on = <0x1>;
  clocks = <0x33 0x34 0x35>;
  regulator-name = "pegmatite_gpu";
  dev-name = "gpu";
  supply-name = "islandpower";
  status = "disable";
};
在dts中对应的device node中添加status = "disable" property可以禁止该device。
原理如下:
当kernel初始化时通过of_platform_populate() function create device时(according to device tree), 如果
device node的描述中的status property不是"ok"或"okay",则该device并不会create, 从而该device的driver因
为没有device可以match, 所以driver的probe()也不会被调用。
in arch/arm/mach-pegmatite/pegmatite.c
static void init pegmatite dt init(void)
{
    /* Add devices not supported by device tree */
    platform_add_devices(platform_devices, ARRAY_SIZE(platform_devices));
    of platform populate(NULL, of default bus match table, NULL, NULL);
}
```

```
of_platform_populate()根据dtb中的device node来创建device。
of_platform_populate() in drivers/od/platform.c
    \|/
of_platform_bus_create() in drivers/od/platform.c
    \|/
of_platform_device_create_pdata() in drivers/od/platform.c
    1
    \|/
of_device_is_available()
static struct platform_device *of_platform_device_create_pdata(
                       struct device_node *np,
                       const char *bus_id,
                       void *platform_data,
                       struct device *parent)
{
    struct platform_device *dev;
    if (!of_device_is_available(np) ||
       of_node_test_and_set_flag(np, OF_POPULATED))
```

return NULL;

```
dev = of_device_alloc(np, bus_id, parent);
     if (!dev)
          goto err_clear_flag;
     . . . . . .
}
* of_device_is_available - check if a device is available for use
* @device: Node to check for availability
* Returns 1 if the status property is absent or set to "okay" or "ok",
* 0 otherwise
*/
int of_device_is_available(const struct device_node *device)
{
     unsigned long flags;
     int res;
     raw_spin_lock_irqsave(&devtree_lock, flags);
     res = __of_device_is_available(device);
     raw_spin_unlock_irqrestore(&devtree_lock, flags);
```

```
}
EXPORT_SYMBOL(of_device_is_available);
* of device is available - check if a device is available for use
* @device: Node to check for availability, with locks already held
* Returns 1 if the status property is absent or set to "okay" or "ok",
* 0 otherwise
*/
static int __of_device_is_available(const struct device_node *device)
{
     const char *status;
     int statlen;
     if (!device)
         return 0;
     status = __of_get_property(device, "status", &statlen);
     if (status == NULL)
          return 1;
                              (1)
```

return res;

```
if (statlen > 0) {
         if (!strcmp(status, "okay") || !strcmp(status, "ok")) (2)
             return 1;
    }
    return 0;
                      (3)
}
(1)
读取"status" property, 如果没定义"status" property, 则该device node有效
(2)
如果device node定义了"status" property,且property value为"okay" or "ok",则该device node有效
(3)
定义了"status" property,且不等于"okay" or "ok",该device node无效
```