

# How and when OpenWrt's procd runs init scripts in etc/init.d?

Asked 4 years ago   Modified 6 months ago   Viewed 3k times

▲  
1 I'm looking at a static OpenWrt firmware. On OpenWrt initialization, `procd` is supposed to run all the `s` prefixed scripts in `/etc/rc.d` which are links to the actual scripts in `/etc/init.d`. I wonder who triggers those scripts...

▼  
I see that on `/etc/inittab` there's this line `::sysinit:/etc/init.d/rcS S boot` but `/etc/init.d/rcS` file does not exist, so who actually runs the scripts on `/etc/rc.d` and when does it happen on init?

🕒 I tried searching all over their documentation but still could not figure this out... Any ideas?

Thanks.

`init` `openwrt` `inittab`

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asked Mar 9, 2021 at 10:05



**Gal Shahar**

2,815 ● 2 ● 24 ● 30

Apparently there's really no rcS script, but the behaviour is emulated by procd itself which runs all the scripts... – [Gal Shahar](#) Mar 19, 2021 at 22:19

## 2 Answers

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▲  
1 You can check details in [procd init](#)

[procd](#) actually ignores the process specification `"/etc/init.d/rcS"` (there is no such a script!) in `"/etc/inittab"`.

▼  
The implementation is in [rcS.c](#):

📌  
✓  
🕒

```
int rcS(char *pattern, char *param, void (*q_empty)(struct runqueue *))
{
    runqueue_init(&q);
    q.empty_cb = q_empty;
    q.max_running_tasks = 1;
```

```
    return _rc(&q, "/etc/rc.d", pattern, "*", param);
}
```

which is called by "runrc" function in [inittab.c](#)

```
static void runrc(struct init_action *a)
{
    if (!a->argv[1] || !a->argv[2]) {
        ERROR("valid format is rcS <S|K> <param>\n");
        return;
    }

    /* proceed even if no init or shutdown scripts run */
    if (rcS(a->argv[1], a->argv[2], rcdone))
        rcdone(NULL);
}
```

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answered Sep 11, 2024 at 1:19



joez

26 ● 2



Hi the openwrt using the program procd to run the /etc/init.d/\* to init the all system. The boot sequence of openwrt is:

1



```
/init -> /sbin/init -> /etc/preinit -> /sbin/procd -> /etc/rc.d/*
```



Actually openwrt always support the rcS, but openwrt didn't use this feature.



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answered Mar 22, 2021 at 3:13



jack ma

61 ● 5

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