

The Basic Conception Of Syslog

The syslog is a basic log tool in linux system. And in 8516 yocto system, we just enable it and modify a litter to store user and kernel space log to the destination direction.

Generally speaking, klogd and syslogd would be include in busybox. The klogd can redirect the kernel log to syslog and the syslogd can redirect the syslog to a destination direction.

The base introduction of syslog please refer to <https://en.wikipedia.org/wiki/Syslog>

The Implement Of Syslog In 8516 Yocto

Build klogd and syslogd from busybox

1. Start klogd and syslogd, [CL:831056](#)

2. How to modify the store file size and num?

In meta/meta-mediatek-aud/recipes-core/busybox/busybox/ring_buf.patch

User-defined file size:G.logFileSize = 512*1024

User-defined file num: G.logFileRotate = 2

```
1 |diff --git a/sysklogd/syslogd.c b/sysklogd/syslogd.c
2 |index 266657f..7db5c16 100644
3 |--- a/sysklogd/syslogd.c
4 |+++ b/sysklogd/syslogd.c
5 |@@ -74,6 +74,8 @@
6 | #include <sys/sem.h>
7 | #include <sys/shm.h>
8 | #endif
9 |+#define ENABLE_FEATURE_SYSLOGD_CFG 1
10|+#define ENABLE_FEATURE_ROTATE_LOGFILE 1
11|
12|
13| #define DEBUG 0
14|@@ -1063,6 +1065,9 @@ int syslogd_main(int argc UNUSED_PARAM, char **argv)
15| >> //umask(0); - why??
16| >> write_pidfile(CONFIG_PID_FILE_PATH "/syslogd.pid");
17|
18|+>> G.logFileSize = 512*1024;
19|+>> G.logFileRotate = 2;
20|+
21| >> do_syslogd();
22| >> /* return EXIT_SUCCESS; */
23| }
```

3. How to modify store file destination?

There are two method

- a. Change when start up syslogd

In meta/meta-mediatek-aud-base/recipes-core/busybox/busybox/syslog-start line 55

Add do_set_output <your-path>

- b. Modife configure file: /etc/syslog.conf

4. Modify userspace printf and instead printf with syslog just as below.

Refer to src/apps/aud-base/main/inc/u_dbg.h

```
#include <syslog.h>
```

```
#define printf(format, args...) syslog(LOG_WARNING, format, ##args)
```

5. Include `u_dbg.h` while you want to save log to syslog
6. How to enable and disable syslog in yocto system?

Dynamic enable syslog:

1. Bootup and enter adb shell
2. `touch /data/syslog.conf`
3. `echo *.debug /data/syslog.log > /data/syslog.conf`
// also you can echo other parameter format as you like
4. reboot

Dynamic disable syslog:

1. Bootup and enter adb shell
2. `rm /data/syslog.conf`
3. reboot

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