



# 在设备中缓存视频

## 录制视频流程

1. 在main函数中调用 sample\_dmc\_init

```
C libdmc_pes.c  C main.c 2 X  C libpes.c  录制一分钟.md
src > C main.c > main(int, char * [])
755 int main(int argc, char *argv[])
848     src.obj_id = FH_OBJ_DSP;
849     src.dev_id = 0;
850     src.chn_id = 0;
851     dst.obj_id = FH_OBJ_VPU_VI;
852     dst.dev_id = 0;
853     dst.chn_id = 0;
854     ret = FH_SYS_Bind(src, dst);
855     CHECK_RET(ret != 0, ret);
856     ret = FH_VENC_StartRecvPic(0);
857     CHECK_RET(ret != 0, ret);
858
859     src.obj_id = FH_OBJ_VPU_VO;
860     src.dev_id = GROUP_ID;
861     src.chn_id = 0;
862
863     dst.obj_id = FH_OBJ_ENC;
864     dst.dev_id = 0;
865     dst.chn_id = 0;
866
867     ret = FH_SYS_Bind(src, dst);
868     CHECK_RET(ret != 0, ret);
869
870     sample_dmc_init(dst_ip, port, 1);
871
872     pthread_attr_t attr;
873     pthread_t thread_stream;
```

2. 在 sample\_dmc\_init 函数中调用 dmc\_pes\_subscribe

```
C libdmc_pes.c  C main.c 2 X  C libpes.c  录制一分钟.md
src > C main.c > sample_dmc_init(FH_CHAR *, FH_UINT32, FH_SINT32)
265
266 int sample_dmc_init(FH_CHAR *dst_ip, FH_UINT32 port, FH_SINT32 max_channel_no)
267 {
268     dmc_init();
269
270     if (dst_ip != NULL && *dst_ip != 0)
271     {
272         dmc_pes_subscribe(max_channel_no, dst_ip, port);
273     }
274
275     return 0;
276 }
277
278
```

3. 在 dmc\_pes\_subscribe 函数中调用 libpes\_init

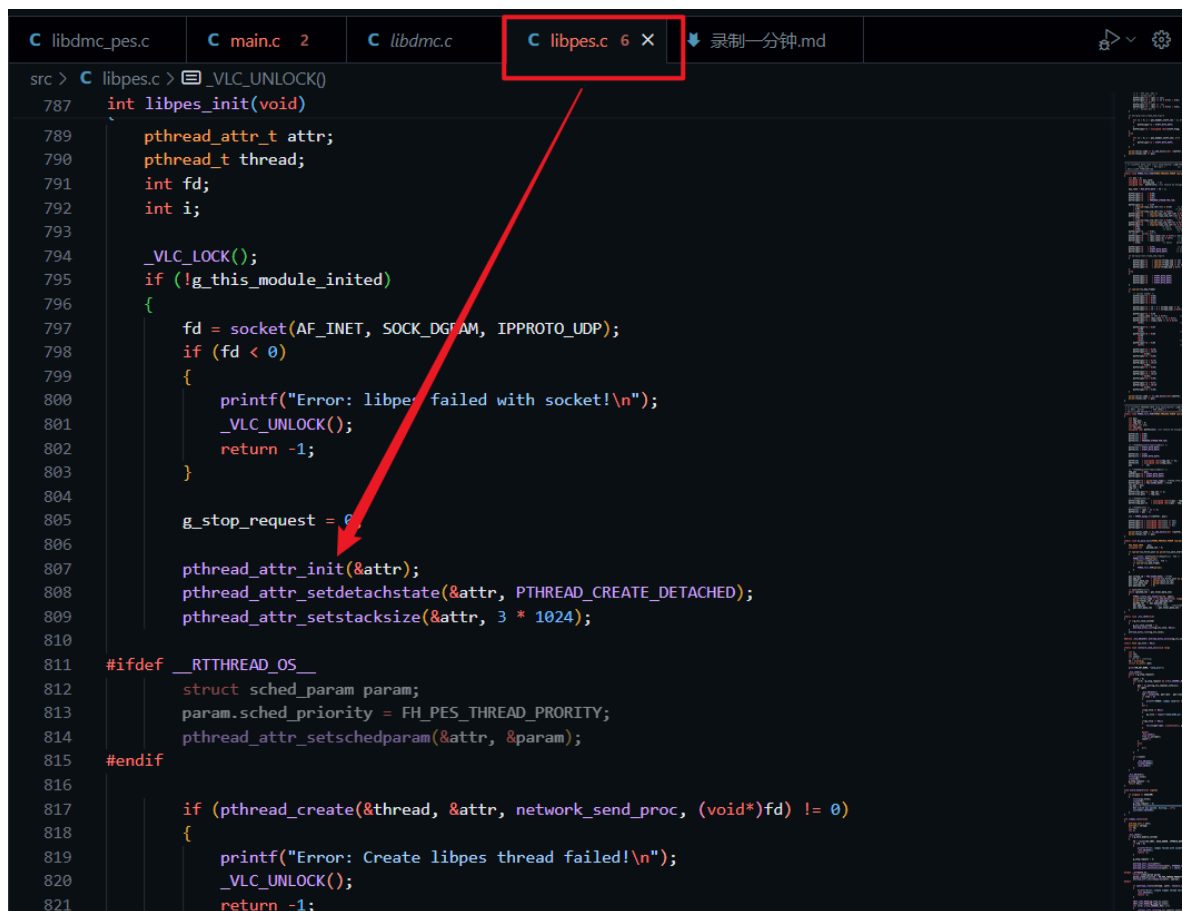
src > C libdmc\_pes.c X C libpes.c 6 录制一分钟.md

```

src > C libdmc_pes.c > dmc_pes_subscribe(int, char *, int)
21 static int _pes_input_fn(int media_chn, int media_type, int media_subtype, \
74 return 0;
75 }
76
77 int dmc_pes_subscribe(int max_channel, char* ip, int port)
78 {
79     int i;
80     int ret;
81
82     if (ip == NULL)
83     {
84         printf("Error: NULL ip address, please run \"vlcview -h\\\"\\n");
85         return -1;
86     }
87
88     if (max_channel > MAX_PES_CHANNEL_COUNT)
89     {
90         printf("Error: channel num is larger than %d\\n", MAX_PES_CHANNEL_COUNT);
91         return -1;
92     }
93
94     g_frame_length = 0;
95     g_nalu_count = 0;
96
97     ret = libpes_init();
98     if (ret != 0)
99     {
100         return -1;
101     }
102
103     strncpy(g_print_info.tar_ip, ip, sizeof(g_print_info.tar_ip));
104
105     for(i = 0; i < max_channel; i++)
106     {
107         libpes_send_to_vlc(i, ip, port + i);
108         g_print_info.port[i] = port + i;
109         g_print_info.printed[i] = 0;
110     }
111
112     dmc_subscribe("PES", DMC_MEDIA_TYPE_H264 | DMC_MEDIA_TYPE_H265, _pes_input_fn);
113     return 0;
114 }

```

4. 在 `dmc_pes_subscribe` 函数中调用创建线程



```
src > C libpes.c > _VLC_UNLOCK()
787 int libpes_init(void)
789     pthread_attr_t attr;
790     pthread_t thread;
791     int fd;
792     int i;
793
794     _VLC_LOCK();
795     if (!g_this_module_initied)
796     {
797         fd = socket(AF_INET, SOCK_DGRAM, IPPROTO_UDP);
798         if (fd < 0)
799         {
800             printf("Error: libpes failed with socket!\n");
801             _VLC_UNLOCK();
802             return -1;
803         }
804
805         g_stop_request = 0;
806
807         pthread_attr_init(&attr);
808         pthread_attr_setdetachstate(&attr, PTHREAD_CREATE_DETACHED);
809         pthread_attr_setstacksize(&attr, 3 * 1024);
810
811         #ifdef __RTTHREAD_OS__
812             struct sched_param param;
813             param.sched_priority = FH_PES_THREAD_PRORITY;
814             pthread_attr_setschedparam(&attr, &param);
815         #endif
816
817         if (pthread_create(&thread, &attr, network_send_proc, (void*)fd) != 0)
818         {
819             printf("Error: Create libpes thread failed!\n");
820             _VLC_UNLOCK();
821             return -1;
822         }
```

## 设置为缓存一分钟视频

在libpes.c 中找到 `int libpes_init(void)` , 位于第787行  
在其中添加定时器函数

```
// 注册信号处理函数
signal(SIGALRM, alarm_handler);

// 设置定时器为1分钟
alarm(60);
```

`alarm(60)` 代表在六十秒后, 执行函数 `void alarm_handler(int signum):`

```

void alarm_handler(int signum)
{
    if (signum == SIGALRM)
    {
        fclose(ps_file);
        close(fd);
        g_stop_request = 0;
        printf("\n*****\n \
One minute has passed. Exiting...\n");
        exit(EXIT_SUCCESS);
    }
}

```

因为设备在推流视频时，同时将视频保存在了本地，这里 `fclose` 后，会把视频保存在 `/home/h264.ps`，随后将其复制出即可

P.S. 我把 `static FILE *ps_file = NULL;` 设置成了全局变量，这样可以在不同的函数里面调用