

J-link RTT 输出 HCPU log

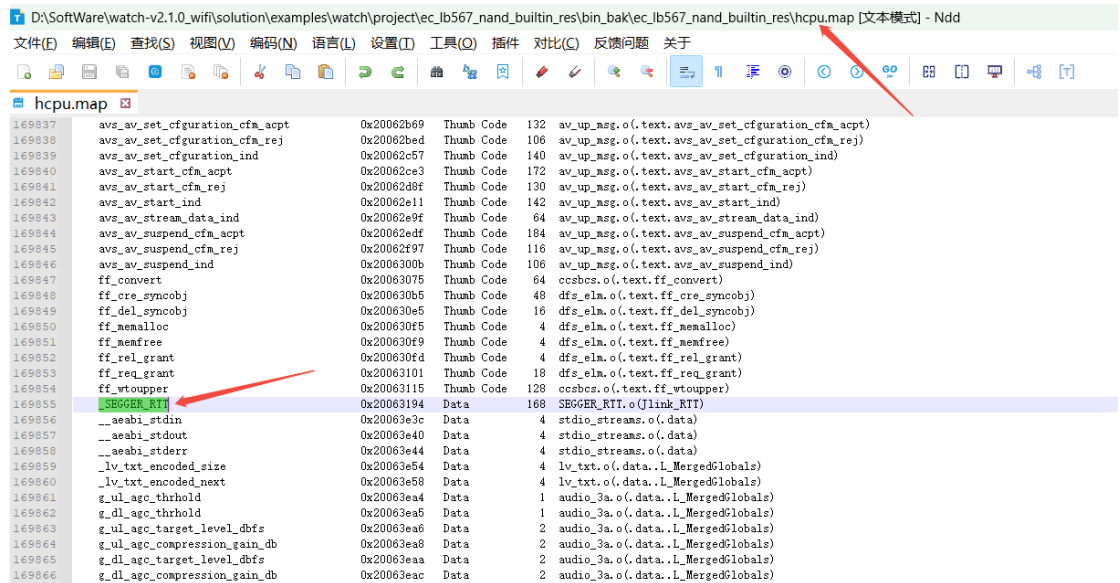
- 1、进入到需要配置的 project，打开 menuconfig，进入 SiFli SDK configuration->Third party packages->选中 Segger RTT package:

```
(Top) -> SiFli SDK configuration -> Third party packages
SiFli Configuration
+++++
[ ] Coremark
[*] Enable EasyTLV
[ ] Enable FFmpeg
[*] FlashDB: Lightweight embedded database. --->
-- FreeType Library
-- Enable libhelix mp3 decoder(code size 30K)
[*] LittlevGL2RTT: The LittlevGL gui lib adapter RT-Thread
    LVGL configuration --->
[ ] LZ4 compression lib --->
[*] Selected MBedTLS functions for boot
[ ] Selected SM2/SM3
[*] Enable Nanopb
[ ] nmea_lib: GPS nmea parse --->
[ ] Enable Open H.264
[ ] libopus
[ ] Enable Quick JS
[ ] Enable RLOTTIE
[*] Segger RTT package --->
[ ] SystemView: A Segger utility for analysis and trace the RTOS ---
[ ] Enable sensor libs
[*] WebRTC: The real-time speech enhancement processing --->
[*] Enable ZLIB --->
[*] Enable tinyp3 encoder
+++++
[Space/Enter] Toggle/enter [ESC] Leave menu [S] Save
[O] Load [?] Symbol info [J] Jump to symbol
[F] Toggle show-help mode [C] Toggle show-name mode [A] Toggle show-all mode
[Q] Quit (prompts for save) [D] Save minimal config (advanced)
```

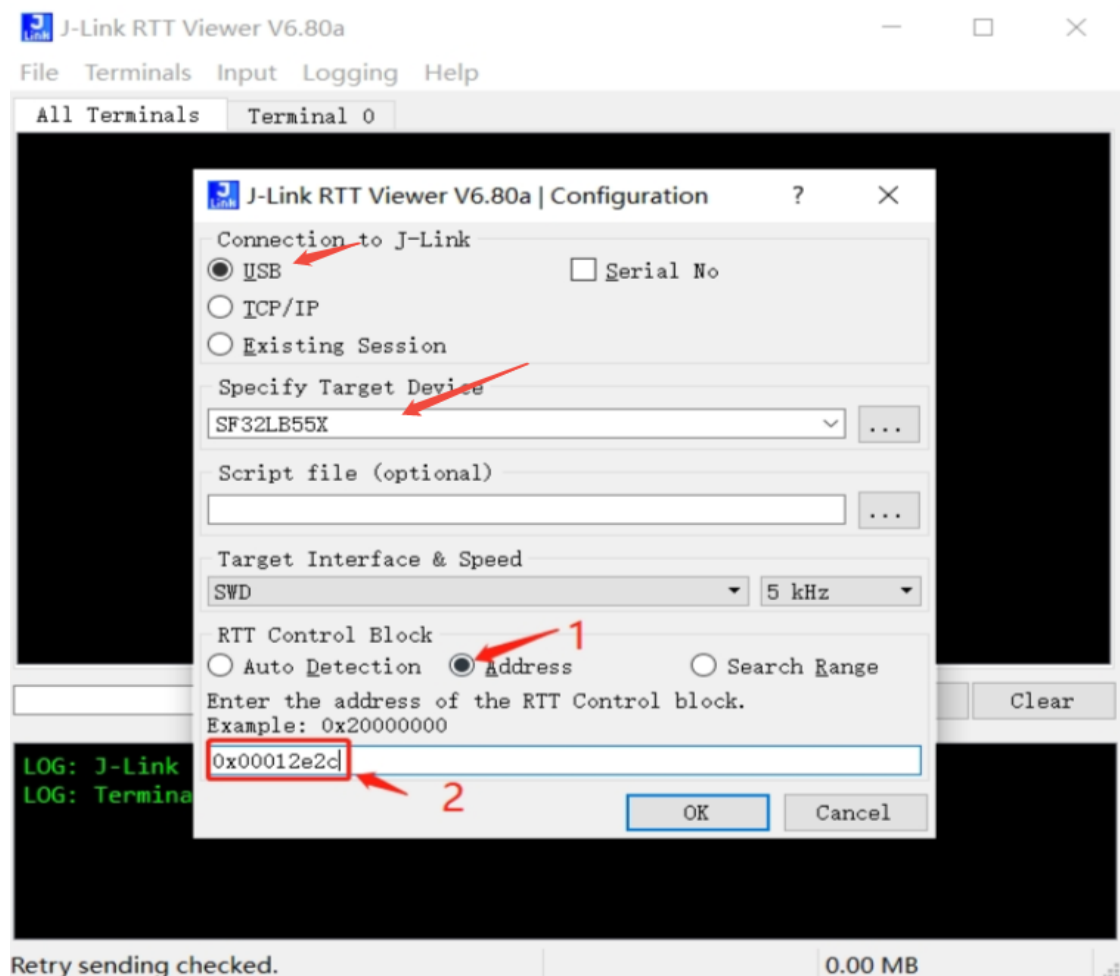
- 2、打开 menuconfig，进入 SiFli SDK configuration->RTOS -> RT-Thread Kernel->Kernel Device Object->the devices name for console，将之前的 uart 口修改为 segger:

```
(Top) -> SiFli SDK configuration -> RTOS -> RT-Thread Kernel -> Kernel Device Object
SiFli Configuration
-- Using device object
[ ] Using ops for each device object
[ ] Enable additional interrupt trace information
[*] Using console for rt_kprintf
(128) the buffer size for console log printf
(uart1) the device name for console
the device name for console (string)
segger
[Space/Enter] Toggle/enter [ESC] Leave menu [S] Save
[O] Load [?] Symbol info [J] Jump to symbol
[F] Toggle show-help mode [C] Toggle show-name mode [A] Toggle show-all mode
[Q] Quit (prompts for save) [D] Save minimal config (advanced)
```

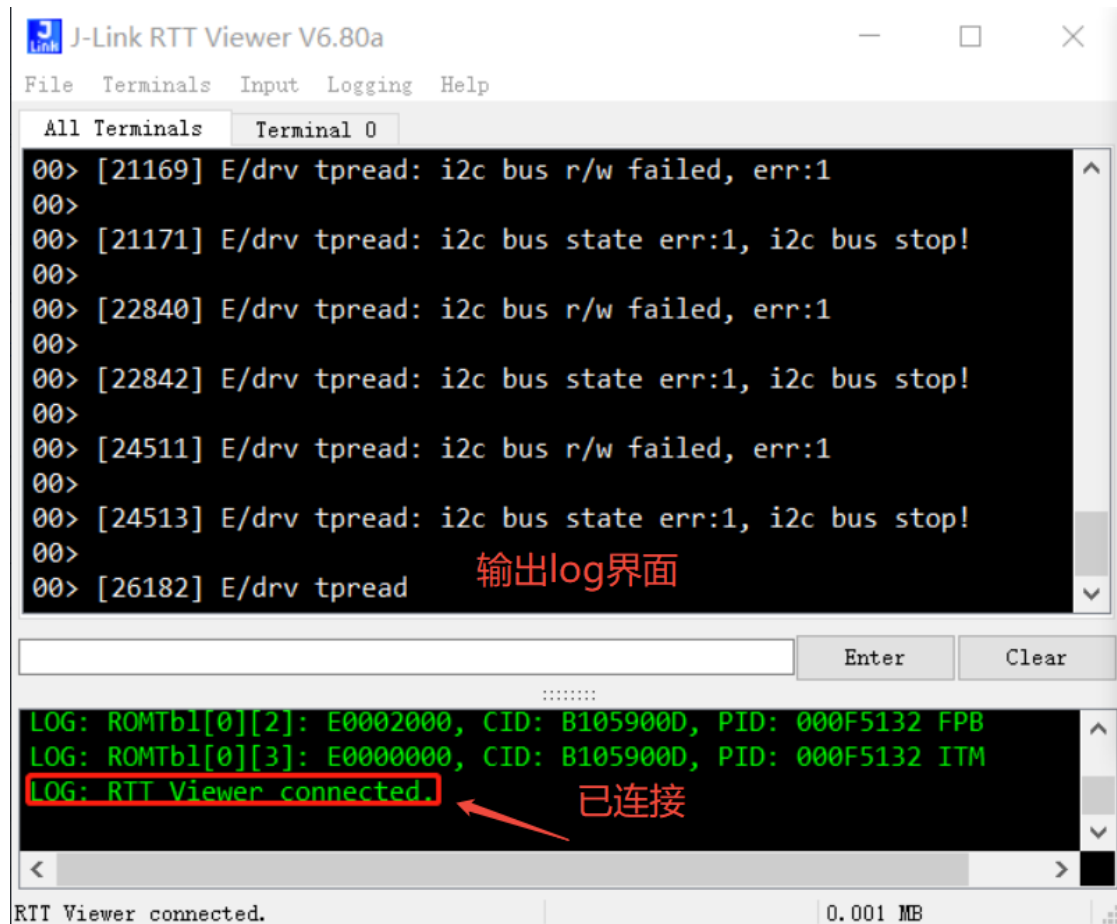
- 3、修改编译之后，打开 hcpu 下的 map 文件，找到 _SEGGER_RTT 的指定地址:



- 4、 打开 J-link Commander 工具，C:\Program Files (x86)\SEGGER\JLink\jlink.exe 连接上
- 5、 打开 C:\Program Files (x86)\SEGGER\JLink\JLinkRTTViewer.exe，点击 File -> Connect 打开连接界面，配置如下，选择相应的 Specify Target Device,同时将在 map 文件中查询到的_SEGGER_RTT 的指定地址填到 Address 中，点击 OK 进行连接。



输出 log 的界面如下：



The screenshot shows the J-Link RTT Viewer V6.80a interface. The 'Terminal 0' tab is active, displaying a series of error messages from the E/drv tpread process, indicating i2c bus failures. Below the terminal, the 'Log' section shows three entries: 'LOG: ROMTbl[0][2]: E0002000, CID: B105900D, PID: 000F5132 FPB', 'LOG: ROMTbl[0][3]: E0000000, CID: B105900D, PID: 000F5132 ITM', and 'LOG: RTT Viewer connected.'. The last log entry is highlighted with a red box, and a red arrow points to it with the text '已连接' (Connected). The status bar at the bottom indicates 'RTT Viewer connected.' and '0.001 MB'.

```
00> [21169] E/drv tpread: i2c bus r/w failed, err:1
00>
00> [21171] E/drv tpread: i2c bus state err:1, i2c bus stop!
00>
00> [22840] E/drv tpread: i2c bus r/w failed, err:1
00>
00> [22842] E/drv tpread: i2c bus state err:1, i2c bus stop!
00>
00> [24511] E/drv tpread: i2c bus r/w failed, err:1
00>
00> [24513] E/drv tpread: i2c bus state err:1, i2c bus stop!
00>
00> [26182] E/drv tpread
```

LOG: ROMTbl[0][2]: E0002000, CID: B105900D, PID: 000F5132 FPB
LOG: ROMTbl[0][3]: E0000000, CID: B105900D, PID: 000F5132 ITM
LOG: RTT Viewer connected.

RTT Viewer connected. 0.001 MB

PS：注意，如果 Hcpu 从 standby 醒来或者重启，需要重连 jlink RTT viewer