

上电

Bootloader

跳转

modules/PX4NuttX/nuttX/arch/arm/src/stm32/  
stm32\_start.c

`__start()`  
stm32硬件初始化

modules/PX4NuttX/nuttX/sched/  
os\_start.c

`os_start()`  
NuttX系统初始化

modules/PX4NuttX/nuttX/sched/  
os\_bringup.c

`os_bringup()`  
创建进程，指针为CONFIG\_USER\_ENTRYPOINT

CONFIG\_USER\_ENTRYPOINT

PX4FMU

PX4IO

build/px4-v2/modules/PX4Firmware/px4fmu-v2/NuttX/nuttX/include/nuttX  
config.h

`#define CONFIG_USER_ENTRYPOINT nsh_main`

build/px4-v2/modules/PX4Firmware/px4io-v2/NuttX/nuttX/include/nuttX  
config.h

`#define CONFIG_USER_ENTRYPOINT usr_start`

modules/PX4NuttX/apps/examples/nsh/  
nsh\_main.c

`nsh_main()`

modules/PX4Firmware/src/modules/px4iofirmware/  
px4io.c

`user_start()`

modules/PX4NuttX/apps/nshlib/  
nsh\_consolemain.c

`nsh_consolemain()`

modules/PX4NuttX/apps/nshlib/  
nsh\_script.c

`nsh_initscript()`

`#define NSH_INITPATH CONFIG_NSH_ROMFSMOUNTPT "/" CONFIG_NSH_INITSCRIPT`  
`#define CONFIG_NSH_ROMFSMOUNTPT "/etc"`  
`#define CONFIG_NSH_INITSCRIPT "init.d/rcS"`

`nsh_script()`

modules/PX4NuttX/apps/nshlib/  
nsh\_script.c

`nsh_session()`

modules/PX4NuttX/apps/nshlib/  
nsh\_parse.c

`nsh_parse()`  
解析rcs