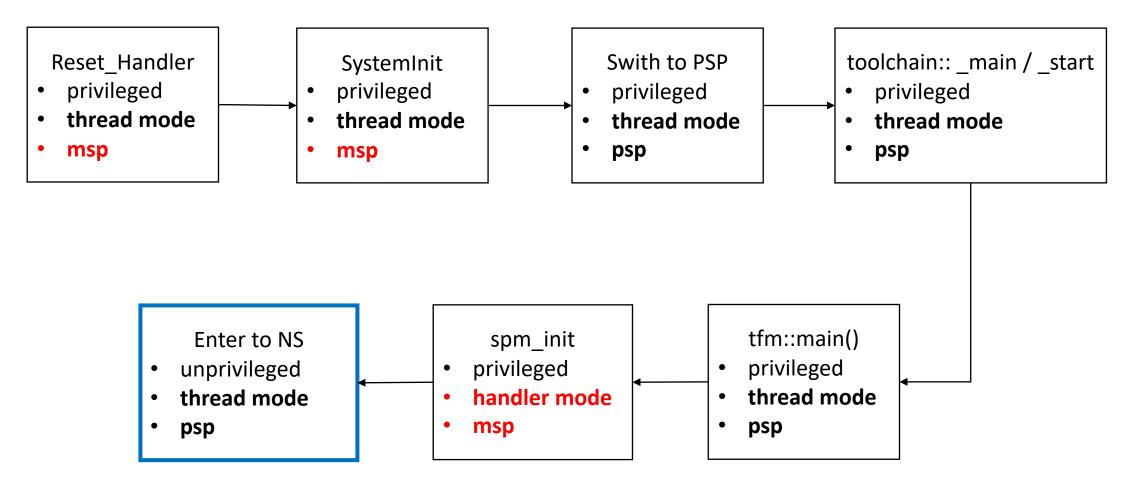


Contents

- The existing initialization flow
- The enhancement

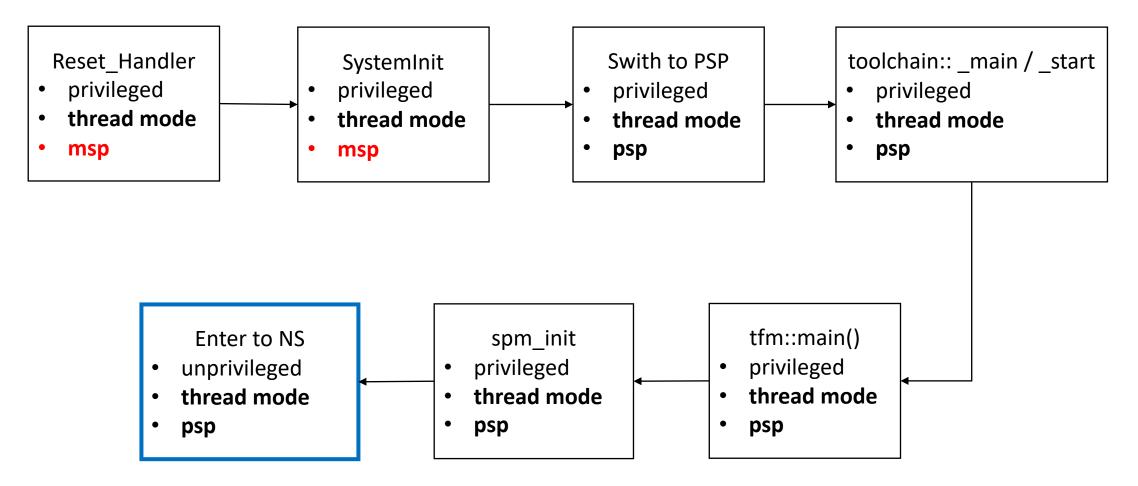


Existing initialization entry flow - IPC





Existing initialization entry flow - library



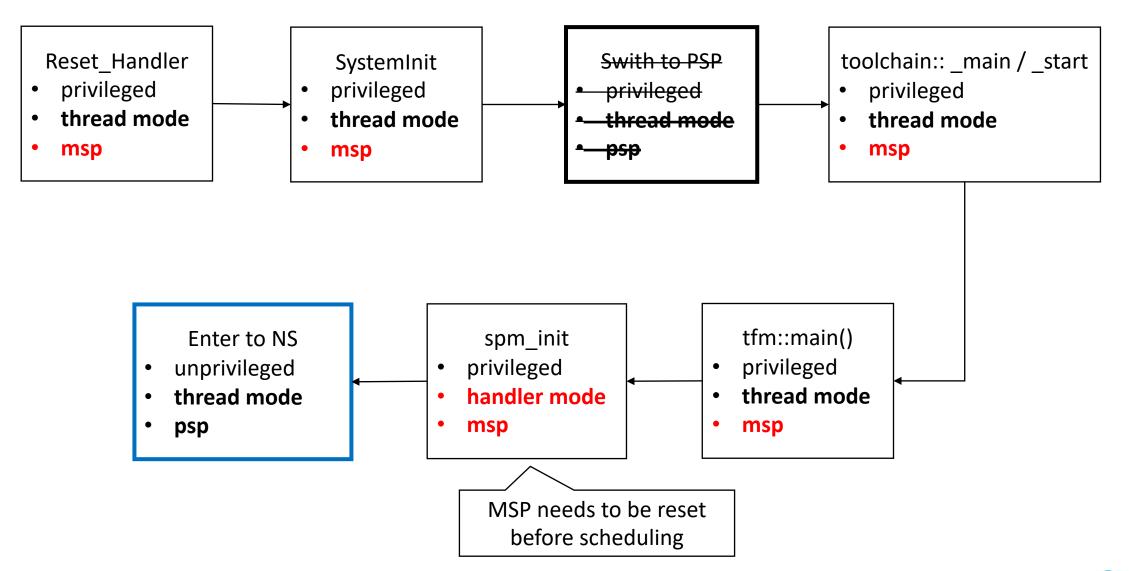


Existing initialization analysis

- Booting belong to scope of SPM, while SPM should work inside a dedicated stack which should never be shared with others.
 - ARM_LIB_STACK being reused by booting code and non-secure partition
- Toolchain would set ARM_LIB_STACK into SP before launching C code
 - Toolchain regard the SPM as the 'program' and SPM is using MSP while booting, so ARM_LIB_STACK should represent the MSP value.
- The customized modification for switching to PSP adds un-natural modification on default platform sources for M-profile platform.
 - This switch is unnecessary during booting.

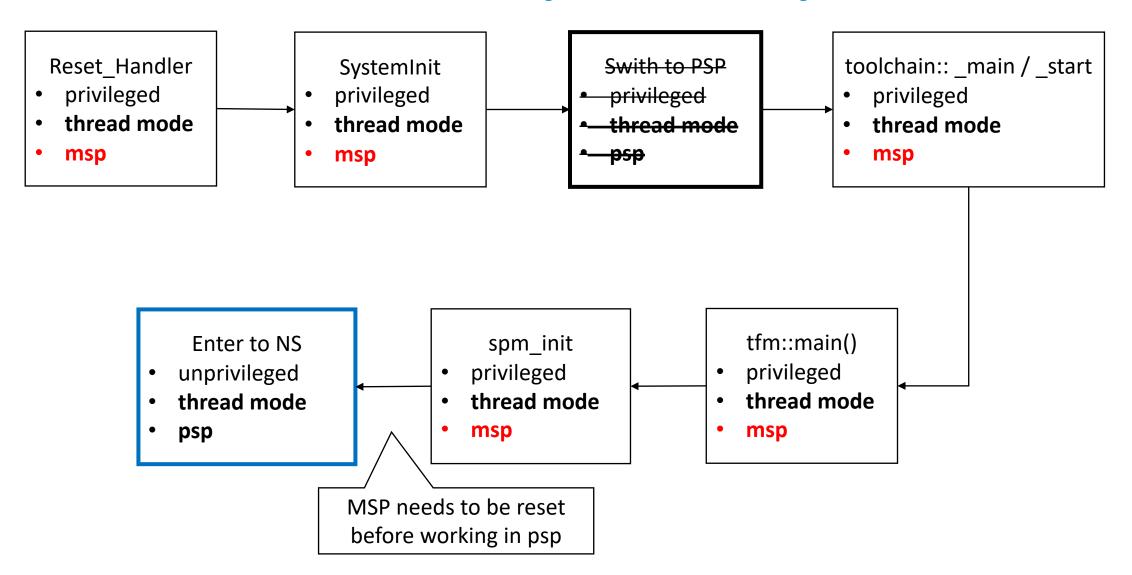


Enhanced initialization entry flow - IPC





Enhanced initialization entry flow - library





arm

Thank You

Danke

Merci

谢谢

ありがとう

Gracias

Kiitos

감사합니다

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