

# U-Boot startup sequence

Status, Thoughts, Discussion

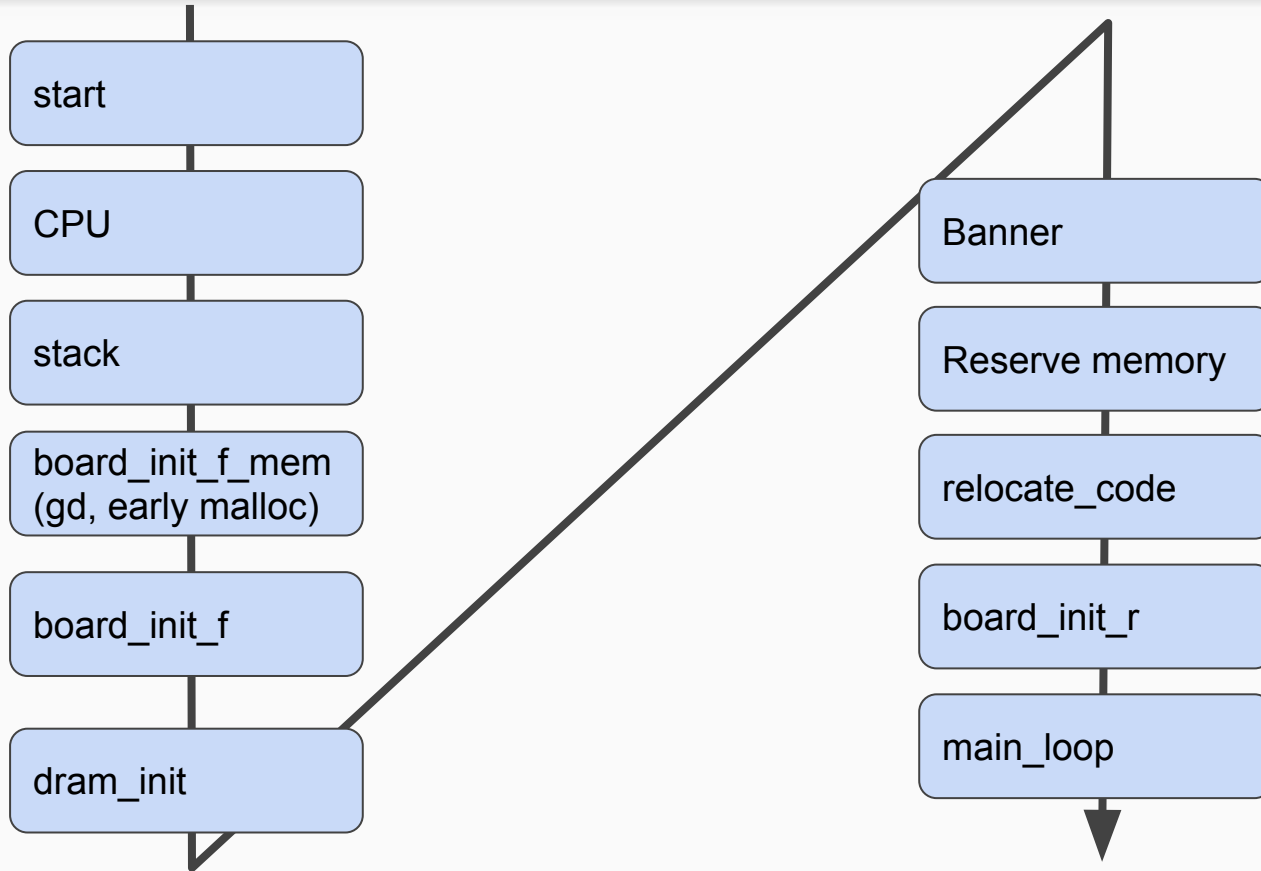
U-Boot Summit ELCE 2015  
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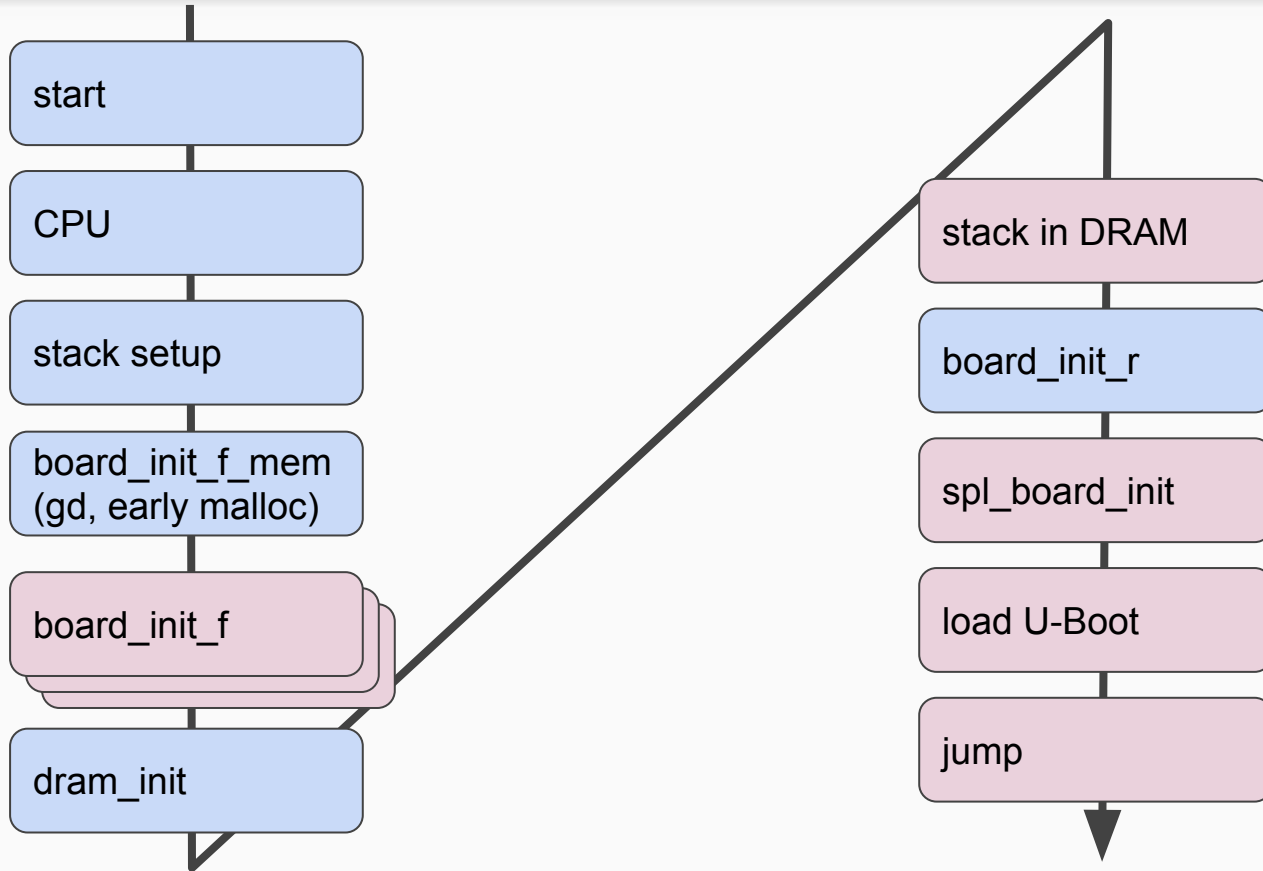
# Agenda

- Status quo
- Recent changes
- Grand plans
- Discussion

# Status quo (U-Boot proper on ARM)



# Status quo (SPL on ARM)



# Recent changes

- SPL
  - board\_init\_f\_mem()
  - Common board\_init\_f()
  - Do as little as possible before board\_init\_f() - i.e. no DRAM init
  - Return normally, instead of jumping to board\_init\_r()
  - CONFIG\_SPL\_STACK\_R to relocate stack when DRAM is ready
  
- U-Boot proper
  - crt0.s common start-up code
  - Driver model taking over / dropping on some init sequence calls

# Grand plans

- SPL
  - Move all boards to use a common `board_init_f()`
    - Put board-specific init in `board_early_init_f()`, or similar
  - Smaller `printf()` by default
- U-Boot proper
  - Start to deprecate more of the post-relocation init sequence
  - `probecpu()`, `timer_intt()`, `serial_init()`, `inetr_spi()`, `inetr_mmc()`, etc.
  - Generic ELF relocation
- Crazy Stuff
  - Common init for SPL and U-Boot proper

# Discussion

