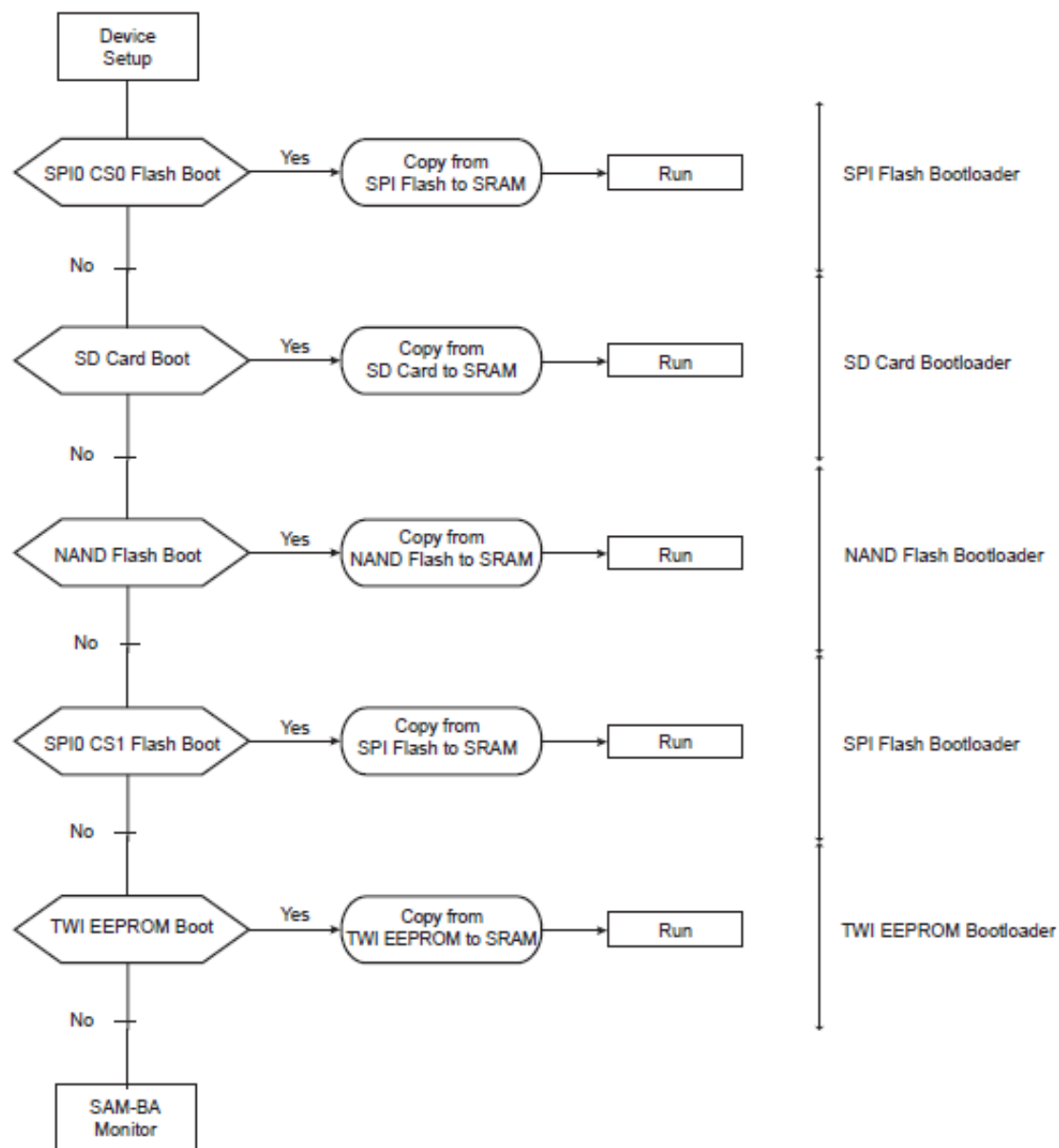


Embedded Linux Porting (C3)

Primary Bootloader
(Atmel Bootstrap)

- Introduction to Bootloader & PBL
- Atmel Bootstrap directory structure
- Atmel Bootstrap code flow
- Compile and Testing Atmel Bootstrap code on RB-A5D2x
- How to add new Board to the Atmel Bootstrap

ROM Code boot Sequence



- Why Bootloader
- Functions of Bootloader
- Why Primary Bootloader required

```
phytec:at91bootstrap-rba5d2x$ ls
binaries          Config.in.none   driver           KNOWN_ISSUES    README.txt
board            Config.in.secure elf32-littlearm.lds lib             scripts
config          Config.in.u-boot elf32-littlearm-tz.lds main.c          tags
Config.in       contrib         fs              main.o          toplevel_cpp.mk
Config.in.app-image crt0_gnu.o      host-utilities  Makefile        uEnv.txt
Config.in.kernel crt0_gnu.S      include         README.md
phytec:at91bootstrap-rba5d2x$
```



bootstrap_code_flow.pdf

Make sure you have set the toolchain path & environment

Clean the source dir

\$ make mrproper

Configure the Atmel Bootstrap for Ruggedboard-A5D2x

\$ make rugged_board_a5d2x_defconfig

Do addition Configuration if required using menuconfig

\$ make menuconfig

Compile the source

\$ make

- Create a new directory to hold your board specific code
board/ directory.
- Add Files in board/<board_name>
"board.mk", a ".c", ".h", "Config.in.board", and "Config.in.boardname"
- Create the necessary default configuration files such as "<board_name__defconfig" in your new board directory.
- Add(source) your board's "Config.in.board" in "board/Config.in.board" file.
- Add(source) your board's "Config.in.boardname" in the "board/Config.in.boardname" file.
- Add your board's ".h" in the "include/contrib_board.h" file.

Open Discussions





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