UBOOT 2019.04

Freescale i.MX6 Solo Processor Boot loader updating to latest version by using the following steps:

1. Download the freescale general boot loader source from the given link clickhere

2. Clone the source using git by using the below command

    $ git clone https://source.codeaurora.org/external/imx/uboot-imx

    Note: using the above command will fetch complete source of uboot with different branch. We should use –b for specific branch to fetch.

3. Once the source fetch completed we should switch to specific branch or uboot version by using the given command

    $ git checkout imx_v2019.04_5.4.3_2.0.0

4. Once the version is selected and fetched. We need to setup the cross compiling environment with toolchain by using the given command

    $ source /opt/poky/3.1.3/environment-setup-armv7vet2hf-neon-poky-linux-gnueabi

    Note: Precompiled yocto toolchain is used. We can download the toolchain in the given link clickhere

5. Once the toolchain is setup in host for cross compile, then move to uboot source and select the configuration files in configs directory

    $ mx6solosabreauto_spinor_defconfig

    Note: The above configuration is used by the requirement and hardware specification and boot type

6. Once the configuration used then give the command for gui menu

    $ make menuconfig

7. Then selected the required components and drivers for boot up the bare metal board.

8. Once the components and drivers are selected then save the configuration in gui menu and exit. Then give the command make, to compile the uboot image.

9. Once the uboot is compiled successfully we need to flash the uboot.imx image file by using the NXP MFG tools.

    Note: Before flashing we need to put the board in serial download mode and select the boot media by using the switches.