

How to rebuild MfgTools firmware on new device?

Apply changes in u-boot to support MFG firmware usage.

/uboot-imx/include/configs/mx6q_sabresd.h

```
#ifndef __CONFIG_H
#define __CONFIG_H

#include <asm/arch/mx6.h>

/* High Level Configuration Options */
//#define CONFIG_MFG          /* Enable this to build MFG firmware */
#define CONFIG_ARMV7          /* This is armv7 Cortex-A9 CPU core */
#define CONFIG_MXC
```

```
#define CONFIG_EXTRA_ENV_SETTINGS \
    "netdev=eth0\0" \
    "ethprime=FEC0\0" \
    "uboot=u-boot.bin\0" \
    "kernel=ulmage\0" \
    "nfsroot=/opt/eldk/arm\0" \
    "bootargs_base=setenv bootargs console=ttyMXC3,115200\0" \
    "bootargs_nfs=setenv bootargs ${bootargs} root=/dev/nfs \" \
        \"ip=dhcp nfsroot=${serverip}:${nfsroot},v3,tcp\0" \
    "bootcmd_net=run bootargs_base bootargs_nfs; \" \
        \"tftpboot ${loadaddr} ${kernel}; bootm\0\" \
    "bootargs_mmc=setenv bootargs ${bootargs} ip=dhcp \" \
        \"root=/dev/mmcblk0p1 rootwait\0\" \
    "bootcmd_mmc=run bootargs_base bootargs_mmc; \" \
    "mmc dev 3; \" \
    "mmc read ${loadaddr} 0x800 0x2000; bootm\0\" \
    "bootcmd=run bootcmd_net\0" \

#ifdef CONFIG_MFG
#undef CONFIG_BOOTDELAY
#undef CONFIG_EXTRA_ENV_SETTINGS

#define CONFIG_BOOTDELAY 2

/* bootargs */
```

```

#define CONFIG_MFG_BOOTARGS \
    "console=ttymx3,115200 rdinit=/linuxrc " \
    "video=mxcfb0:dev=ldb,1024x600M@60,if=RGB24,bpp=32 video=mxcfb1:off video=mxcfb2:off
fbmem=8M"

/* bootcmd */
#define CONFIG_MFG_BOOTCOMMAND \
    "bootm 0x10800000 0x10C00000"
#endif // CONFIG_MFG

#define CONFIG_ARP_TIMEOUT 200UL

```

Notes:

0x10800000 – ulmage start address

0x10C00000 -- initramfs.cpio.gz.uboot locate address

/uboot-imx/board/Freescale/mx6q_sabresd/mx6q_sabresd.c

```

int board_late_init(void)
{
    int ret = 0;
#ifdef CONFIG_MFG
    printf("board_late_init(): MFG_BOOT\n");
    setenv("bootcmd", CONFIG_MFG_BOOTCOMMAND);
    setenv("bootargs", CONFIG_MFG_BOOTARGS);
#else
#ifdef MX6Q_SABRESD_ANDROID_H
    switch (get_boot_device()) {
        case SD_BOOT:
            printf("board_late_init(): SD_BOOT\n");
            setenv("fastboot_dev", "mmc2");
            setenv("bootcmd", "booti mmc2");
            break;
        case MMC_BOOT:
            printf("board_late_init(): MMC_BOOT\n");
            setenv("fastboot_dev", "mmc3");
            setenv("bootcmd", "booti mmc3");
            break;
        default:
            printf("board_late_init(): unsupported boot devices\n");
            break;
    }
#endif
}

```

```
#endif
```

```
#endif // CONFIG_MFG
```

```
#ifdef CONFIG_I2C_MXC
```