

```

6. C      start_armboot()
        ....
        ...
        ...--;
2410      ....
        ...u-boot 1.1.1      가      ...
0.4.0      ...
        .
        asm routine      C      .
        command prompt
start_armboot()      .
        ,      bootm
        .
        .      cpu
(s3c2410      )      가      .
        ,      ...^^,      가      .
        2      가      가      (      ...)
...
2> c      start      (lib_arm/board.c) - dram      flash, uart
3>      (command line shell: common/main.c      ?^^) -      shell
autoboot delay      enter      boot command(
)
...
        ,      2>      3>
3>      .
가
        (
-
        (4. u-boot start-up code)      c
lib_arm/board.c      start_armboot()
        c
        .      autoboot가      delay      -1
        가      delay
        .
        smdk2410.h      CONFIG_BOOTDELAY
3      . CONFIG_BOOTCOMMAND      가
가
        . smdk2410.h
start_armboot
        가      ...
        start_armboot      .      가
        smdk2410.h board/smdk2410/*      . board/smdk2410/      smdk2410.c,
flash.c
- start_armboot()      (
가 u-boot-1.1.1      ,
0.4.0
        1.1.1      stack & malloc      (0.4.0)      가
        1.1.1      global data structure
        1.1.1      (      ?...ㅎㅎ)
startup      start_armboot()      stack

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lib_arm/board.c  start_armboot()          DECLARE_GLOBAL_DATA_PTR
                  include/asm-arm/global_data.h      .      struct global_data
                  global 가                  register
(
    ...ㅎㅎ)

global data
struct bd_info          .      board specific          .      ppc
                        가 arm                        ( )
                        0 가                        machine(board or cpu)
type 가      architecture number          .
bd_info  include/asm-arm/u-boot.h          .      가
bi_arch_number
bi_boot_params

                        argument          .

start_armboot()      가  init_fnc_t **init_fnc_ptr          .
2      start_armboot()          .

CONFIG_VFD  lcd controller          .      가
gd = &gd_data;          clear          .
DECLARE_GLOBAL_DATA_PTR          .      flash
u-boot.lds          .(          u-boot 1.1.1      가      )
.
.
,          cpu
do_bootm_linux()          bootm          do_bootm()

start_armboot()      가

...
for (init_fnc_ptr = init_sequence; *init_fnc_ptr; ++init_fnc_ptr)
{
}
...

            init_sequence      start_armboot()

?      typedef          int          void          .

- cpu_init( => cpu/arm920t/cpu.c )          .
    #ifdef          CONFIG_USE_IRQ
include/configs/smdk2410.h
#undefine          armboot          .
_armboot_real_end,      cpu/arm920t/start.S          .
(          u-boot 1.1.1      가      .)

    armboot      smdk2410.h          .

- board_init(=> board/smdk2410/smdk2410.c)
clock gpio          .      cpu          board
board specific          .
2          .      ....^^

gd->bd->bi_arch_number = 193;
gd->bd->bi_boot_params = 0x30000100;

.

    arch number of SMDK2410-Board          .      2410
arch/arm/tools/mach-types          .
( 가      2410          ( ? )          SW.LEE          swl
patch

```

```

가 가 ...)

s3c2410 182 , smdk2410 193
가
...
가
setup_arch
gd->bd->bi_boot_params = 0x30000100;
ppc bd_t
arm
ram
bank 6(SDRAM bank) . 0x30000000 sdram bank
bank MMU 6 가 0x30008000 . 0x30004000
.....^^
enable . cpu/arm920t/cpu.c
cpu 가
- interrupt_init(=> cpu/arm920t/interrupts.c )
output pin 2410 가 5
10ms
가 cpu
timer
? udelay , 가 ....^^

- env_init(=> common/env_*.c flash common/env_flash.c)
smdk2410.h 가 nvram 가 flash
smdk2410 flash u-boot

ipaddr
serverip
etheraddr
bootarg
...

ipaddr=192.168.1.3\0serverip=192.168.1.1
default_environment null termination common/env_common.c
smdk2410.h
smdk2410.h 가
? null
가 C ....^^
"bootargs=" CONFIG_BOOTARGS "\0"
env_init global data

- init_baudrate(board.c)
uart smdk2410.h 가
global data

- serial_init(=> cpu/arm920t/serial.c )
uart

- console_init_f(=> common/console.c)
global data structure gd->have_console = 1;

- display_banner(board.c)
가

- dram_init(=> board/smdk2410/smdk2410.c )
dram start size global data structure board description structure
0x30000000 0x04000000, 64 가

- display_dram_config

```

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start_armboot

가

- flash_init(==>board/smdk2410/flash.c)
가 . u-boot가
flash . u-boot/board/*
가

flash (display_flash_config())
CONFIG_VFD 가 lcd ...

- mem_malloc_init (_armboot_real_end);
malloc . ram armboot(u-boot ) 가
armboot_real_end . cpu_init 가 , smdk2410.h
u-boot malloc (stack)
? ㅎㅎ
( startup u-boot-1.1.1 .)

- env_relocate(common/env_common.c)
env_relocate env_init default_environment[] env 가 가
가 . saveenv 가 .

board specific structure bd_data 가 ipaddr mac address
ppc ppc

- devices_init(common/devices.c)
u-boot (?) , device driver 가
가 . device linked list serial device
가

stdio, stdin, stderr

- console_init_r(common/console.c)
common/console.c: stdout, stdin, stderr
out,in device
devices_init()

- enable_interrupts(cpu/arm920t/interrupts.c )
smdk2410 include/configs/smdk2410.h #undef
CONFIG_USE_IRQ

load_addr = simple_strtoul (s, NULL, 16); do_bootm 가

main_loop() . autoboot -1 가
-1

smdk2410.h #define CFG_PROMPT "SMDK2410 # "
. ^^
start_armboot

가 pdf

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```
(          ....ghcstop          .          ..      )

    main_loop          .

    ....
```