

```
F:\hossam\learn in depth\workspace\lec2_lab1\output.map - Notepad++
MINGW64:/f/hossam/learn in depth/workspace/lec2_lab1
canon-a1100
                   Canon PowerShot A1100 IS
                                                                                                      File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
cheetah
                   Palm Tungsten | E aka. Cheetah PDA (OMAP310)
                                                                                                      🕽 📇 🖺 🖺 🥦 🥱 🧥 🦧 | 🊜 📭 🜓 🖚 🗲 | 🏔 🍖 | 🤏 🤏 | 📭 🚍 | 🏣 🞵 🔭 📳 🐷 📓 📭 🐔 | 🐵 | 💌 🗎 🕨 🠣
collie
                   Sharp SL-5500 (Collie) PDA (SA-1110)
                   Gumstix Connex (PXA255)
connex
                                                                                                      📑 uart.c 🗵 🔚 uart.h 🗵 🔚 app.c 🗵 블 startup.s 🗵 🔚 linker_script.ld 🗵 🔚 output.map 🗵
                   cubietech cubieboard
cubieboard
                   SmartFusion2 SOM kit from Emcraft (M2S010)
emcraft-sf2
                   Calxeda Highbank (ECX-1000)
highbank
                   ARM i.MX25 PDK board (ARM926)
imx25-pdk
                                                                                                              Memory Configuration
                   ARM Integrator/CP (ARM926EJ-S)
integratorcp
                   ARM KZM Emulation Baseboard (ARM1136)
kzm
lm3s6965evb
                   Stellaris LM3S6965EVB
                                                                                                                                          Origin
lm3s811evb
                   Stellaris LM3S811EVB
                                                                                                                                                                          Length
                                                                                                              Name
mainstone
                   Mainstone II (PXA27x)
                                                                                                                                           0x00000000
                                                                                                         5
                                                                                                              Mem
                                                                                                                                                                           0x04000000
mcimx7d-sabre
                   Freescale i.MX7 DUAL SABRE (Cortex A7)
midway
                   Calxeda Midway (ECX-2000)
                                                                                                              *default*
                                                                                                                                           0x000000000
                                                                                                                                                                          0xffffffff
                   ARM MPS2 with AN385 FPGA image for Cortex-M3
mps2-an385
                   ARM MPS2 with AN505 FPGA image for Cortex-M33
mps2-an505
                   ARM MPS2 with AN511 DesignStart FPGA image for Cortex-M3
mps2-an511
                   Marvell 88w8618 / MusicPal (ARM926EJ-S)
musicpal
                                                                                                              Linker script and memory map
n800
                   Nokia N800 tablet aka. RX-34 (OMAP2420)
n810
                   Nokia N810 tablet aka. RX-44 (OMAP2420)
                                                                                                         9
                   Netduino 2 Machine
netduino2
                   empty machine
none
                                                                                                                                         0x00010000
                                                                                                                                                                                       = 0x10000
                   Samsung NURI board (Exynos4210)
OpenPOWER Palmetto BMC (ARM926EJ-S)
nuri
palmetto-bmc
                   Raspberry Pi 2
raspi2
realview-eb
                   ARM RealView Emulation Baseboard (ARM926EJ-S)
                                                                                                              .startup
                                                                                                                                         0x00010000
                                                                                                                                                                      0x10
realview-eb-mpcore
                   ARM RealView Emulation Baseboard (ARM11MPCore)
                   ARM RealView Platform Baseboard for Cortex-A8
                                                                                                                startup.o(.text)
realview-pb-a8
realview-pbx-a9
                   ARM RealView Platform Baseboard Explore for Cortex-A9
                                                                                                       14
                                                                                                                                         0x00010000
                   OpenPOWER Romulus BMC (ARM1176)
                                                                                                                .text
                                                                                                                                                                      0x10 startup.o
romulus-bmc
                   Freescale i.MX6 Quad SABRE Lite Board (Cortex A9)
sabrelite
                                                                                                       15
                                                                                                                                         0x00010000
                                                                                                                                                                                     reset
                   smdk2443 (ARM920-T)
smdk2443
                   Samsung SMDKC210 board (Exynos4210)
smdkc210
                                                                                                       16
                   Sharp SL-C3000 (Spitz) PDA (PXA270)
spitz
sx1
                   Siemens SX1 (OMAP310) V2
                                                                                                       17
                                                                                                               .text
                                                                                                                                         0x00010010
                                                                                                                                                                      0xcc
                   Siemens SX1 (OMAP310) V1
sx1-v1
                   Sharp SL-C3200 (Terrier) PDA (PXA270)
terrier
                                                                                                                *(.text)
                                                                                                       18
                   Sharp SL-6000 (Tosa) PDA (PXA255)
tosa
                   OpenTom (ARM920-T)
tt
                                                                                                                                                                      0x18 app.o
                                                                                                       19
                                                                                                                .text
                                                                                                                                         0x00010010
tt666
                   OpenTom (ARM920-T)
                   Gumstix Verdex (PXA270)
verdex
                                                                                                       20
                                                                                                                                         0x00010010
                                                                                                                                                                                     main
versatileab
                   ARM Versatile/AB (ARM926EJ-S)
                   ARM Versatile/PB (ARM926EJ-S)
                                                                                                                                                                      0x50 uart.o
                                                                                                       21
versatilepb
                                                                                                                .text
                                                                                                                                         0x00010028
vexpress-a15
                   ARM Versatile Express for Cortex-A15
                                                                                                                                         0x00010028
                                                                                                                                                                                     Uart send s
                   ARM Versatile Express for Cortex-A9
vexpress-a9
virt-2.10
                   QEMU 2.10 ARM Virtual Machine
                                                                                                       23
                                                                                                                *(.rodata)
virt-2.11
                   QEMU 2.11 ARM Virtual Machine
                   QEMU 2.12 ARM Virtual Machine (alias of virt-2.12)
virt
                                                                                                       24
                                                                                                                                                                      0x64 app.o
                                                                                                                .rodata
                                                                                                                                         0x00010078
virt-2.12
                   QEMU 2.12 ARM Virtual Machine
                   QEMU 2.6 ARM Virtual Machine
virt-2.6
                                                                                                       25
                                                                                                                                         0x00010078
                                                                                                                                                                                     string buff
virt-2.7
                   QEMU 2.7 ARM Virtual Machine
virt-2.8
                   QEMU 2.8 ARM Virtual Machine
                                                                                                       26
virt-2.9
                   QEMU 2.9 ARM Virtual Machine
xilinx-zynq-a9
                   Xilinx Zynq Platform Baseboard for Cortex-A9
                                                                                                              .glue 7
                                                                                                                                         0x000100dc
                                                                                                                                                                       0x0
                   Zipit Z2 (PXA27x)
                                                                                                       28
                                                                                                                .glue 7
                                                                                                                                         0x00000000
                                                                                                                                                                       0x0 linker stubs
Hossam@Hossam-pc MINGW64 /f/hossam/learn in depth/workspace/lec2_lab1
$ qemu-system-arm -M versatilepb -m 128M -nographic -kernel learn-in-depth.bin
learn-in-depth:Hossam_zohir
                                                                                                                                                                     Windows (CR LF) UTF-8
                                                                                                     N length: 2,557 lines: 81
                                                                                                                                   Ln:1 Col:1 Pos:1
                                                                                                                                                                                                    INS
```