I3-MPS Pensum F2012

Hvor /Documentation/tekst.txt er nævnt refereres til dokumentationen i kernetræet, dvs i VM-Ware imagets folder /home/stud/sources/linux-3.2.6/Documentation/

Introduction

Simon p.1 – 33

Busses

Structured Computer Organization, Tanenbaum: 174-189, Simon 45-57

Booting Linux

Embedded Linux Primer, Hallinan: Ch 5 (Kernel Init) minus 5.3.1 og 5.4.1 + Ch 6 (System Init).

Linux Kernel Modules

Linux Device Drivers: 1-42 (Introduction to device drivers + kernel modules)

Linux Char Drivers

Linux Device Drivers: 42-70 (Char Drivers)

Exceptions / Interrupts

Linux Device Drivers: 147-155 (Blocking I/O, ch6), 258-273 (Linux Interrupt handling),
Simon 81-111
/Documentation/gpio.txt (afsnit omkring gpio_to_irq og irq_to_gpio)

The SPI Interfaces

Wikipedea's afsnit om SPI

/Documentation/spi/ spi-summary

More on Char Drivers

Linux Device Drivers Ch6, 135-147 (IOCTL) + Ch7, 183-202 (Timers/Delays)

Linux Device Model

Essential Linux Device Drivers 103-113 +146-156

Processor Memory

ARM System Developer's Guide, Sloss/Symes/Wright: 12-12.32 (Cache) + 14-14.5 (MMU) +
http://people.redhat.com/drepper/cpumemory.pdf ch 6 -> side 50 linie 7 +
http://tldp.org/LDP/tlk/mm/memory.html 3.1-3.6

Drepper kapitel 6.1 skal ikke forstås i dybden, vigtigst er det at I forstår sammenhængen. Kapitel 6.1.2 skal læses omhyggeligt, I skal bruge indholdet i øvelsen.

Input Device Driver

Venkateswaran ch 7 + /Documentation/input/input-programming.txt:

Memory Mapping and DMA

Ikke pensum

Drivers in User Space

Venkateswaran ch 19