https://cdn.hackaday.io/files/7799333672416/snickerdoodle-book.pdf

e:\myProj\fciv.exe -sha1 "e:\myProj\raspberryPI\NOOBS\_v2\_4\_0.zip"

b8441908eecf9e79f1022be22279a34c19a42663 e:\myproj\raspberrypi\noobs\_v2\_4\_0.zip

wmic diskdrive list brief

Caption DeviceID Model Partitions Size

SDHC Card \\.\PHYSICALDRIVE1 SDHC Card 0 31914086400

"e:\oracle\VirtualBox\VBoxManage" internalcommands createrawvmdk -filename "E:\Oracle\vm\_disks\sdcard.vmdk" -rawdisk "\\.\PHYSICALDRIVE1"

~~VBoxManage.exe: error: Cannot open the raw disk '\\.\PHYSICALDRIVE1': VERR\_ACCESS\_DENIED~~

~~VBoxManage.exe: error: The raw disk vmdk file was not created~~

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http://hackstore.co.il/books/raspberry-pi-for-beginners/#2

http://hackstore.co.il/books/raspberry-pi-for-beginners/

Cross referncee to linux for code scheduler run queue , affinity

Lxr site elixir cross reference

Uname -a

Osdl search - benchmarks of os preempt\_rt patch

GRUB - grand unified bootloader

Kernel main.c rout init

Systemd

Systemctl

\*.ko files

lsmod show LKM

modprobe to install LKM with its dependencies

/lib/modules/<kern ver>/Modules.dep show modules dependencies

Dmesg buffer cyclic log of kernel 16KB

בנית קרנל

Kernel.org

Tar -xaf

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Kernel install

Make xconfig -> .config creation in the kernel main directory

.config to build and transfer to known place /boot in name like <config\_4.11.1\_generic>

In config file :

m is kernel module

Y is enable option

Not use

=value for param

zcat /proc/config.gz Option is IKCONFIG for reading it

Make oldconfig - run on older .config and fit it to the current type of .config file

Library arch

Make <arch>\_defcobfig

Block drivers

Like one partition on FS mounted to /dev

Dd copy convert fies / block devices

/proc/devices

DL\_DIR free electron

Irq controller - APIC ??

AMBA - arm bus ???

7.6.17

CHAR DEVICE drivers

System account for deamons creations

For exmple FTP account runa ftpd

/etc/passwd

/proc/ can be seen

Mount -t proc proc /proc

Qemu - sudo apt-get install qemu-system-arm

Major / ninor can be listed at ‘cat /proc/devices’

If (register\_chrdev\_region( this for getting major/minor )

Mknod /dev/ttys0 c 4 64

Insmod (there is init routine that runs the registration routine

FOP - char file structure contains driver pointers toroutines

copy\_to\_user() copy\_from\_user() in kernel for

Struct cdev for add

Pg 514 sample acme.c

Insmod namefile -c n1 n2

Rmmod driverl

Target file system

Initrd.img = target fs

../extract-initrd.sh