

Latest 5.8 Kernel

Latest 5.8 Kernel: [Linux Kernel 5.8.3 Kirkwood tld-1 package and Debian rootfs](#)

```
dpkg -i linux-headers-5.8.3-kirkwood-tld-1_1.0_armel.deb
dpkg -i linux-image-5.8.3-kirkwood-tld-1_1.0_armel.deb
```

Because I'm using still old U-Boot: U-Boot 1.1.4 (Jun 8 2011 - 18:48:37) Marvell version: 3.4.19 it is need to append FDT:

```
cp -a zImage-5.8.3-kirkwood-tld-1 zImage-5.8.3-kirkwood-tld-1.fdt
cat /boot/dts-5.8.3/kirkwood-nsa310.dtb >> zImage-5.8.3-kirkwood-tld-1.fdt

mkimage -A arm -O linux -T kernel -C none -a 0x00008000 -e 0x00008000 -n
Linux-5.8.3-kirkwood-tld-1 -d zImage-5.8.3-kirkwood-tld-1.fdt
./uImage-5.8.3
mkimage -A arm -O linux -T ramdisk -C gzip -a 0x00000000 -e 0x00000000 -n
initramfs-5.8.3-kirkwood-tld-1 -d ./initrd.img-5.8.3-kirkwood-tld-1
./uInitrd-5.8.3

rm zImage-5.8.3-kirkwood-tld-1.fdt
```

```
Image Name:   Linux-5.8.3-kirkwood-tld-1
Created:      Sun Nov  1 17:53:32 2020
Image Type:   ARM Linux Kernel Image (uncompressed)
Data Size:    12568 Bytes = 12.27 kB = 0.01 MB
Load Address: 00008000
Entry Point:  00008000

Image Name:   initramfs-5.8.3-kirkwood-tld-1
Created:      Sun Nov  1 17:53:32 2020
Image Type:   ARM Linux RAMDisk Image (gzip compressed)
Data Size:    10037699 Bytes = 9802.44 kB = 9.57 MB
Load Address: 00000000
Entry Point:  00000000
```

And configure U-Boot to boot from new image:

```
fw_setenv load_ide_58 'ide reset; ext2load ide 0:3 0x800000 /uImage-5.8.3;
ext2load ide 0:3 0x1100000 /uInitrd-5.8.3;'
fw_setenv bootcmd_ide_58 'run load_ide_58; bootm 0x800000 0x1100000;'
fw_setenv bootcmd 'run load_ide_58; bootm 0x800000 0x1100000;'
```

zram

```
apt-get install zram-tools
```

[/etc/default/zramswap](#)

```
# Specifies amount of zram devices to create.  
# By default, zramswap-start will use all available cores.  
CORES=1  
  
# Specifies the amount of RAM that should be used for zram  
# based on a percentage the total amount of available memory  
#PERCENTAGE=10  
  
# Specifies a static amount of RAM that should be used for  
# the ZRAM devices, this is in MiB  
#ALLOCATION=256  
  
# Specifies the priority for the swap devices, see swapon(2)  
# for more details.  
PRIORITY=100
```

[/etc/rc.local](#)

```
...  
/usr/sbin/zramswap start
```

```
zramswap start  
zramswap status
```

From:
<https://niziak.spox.org/wiki/> - **niziak.spox.org**

Permanent link:
https://niziak.spox.org/wiki/hw:nsa310:debian:kernel_58

Last update: **2021/01/19 09:32**

