Banana Pi M2 Ultra als headless VDR

Quellen:

- Getting started with Armbian
- Armbian Documentation
- Bananapi M2U / Berry
- Building Armbian

funktionierende Images:

- https://armbian.systemonachip.net/archive/bananapim2ultra/archive/Armbian_20.05.2_Bananapim2ultra_bullseye_current_5.4.43.img.xz - Login: root/1234

SD-Karte befüllen:

```
wget
https://armbian.systemonachip.net/archive/bananapim2ultra/archive/Armbian_20.05.2_Bananapim2ultra_bullseye_current_5.4.43.img.xz
xz -d Armbian_20.05.2_Bananapim2ultra_bullseye_current_5.4.43.img.xz
sudo dd if=Armbian_20.05.2_Bananapim2ultra_bullseye_current_5.4.43.img
of=/dev/sdc bs=1M
# oder via USBImager direkt die *.xz Datei auf eine SD-Karte schreiben
# oder
# xzcat Armbian_20.05.2_Bananapim2ultra_bullseye_current_5.4.43.img.xz |
sudo dd bs=1M of=/dev/sdc
```

Die erste Boot-Phase ist sehr lang! Bis zu einem SSH-Login kann es mehr als 10 Minuten dauern.

Building Armbian

```
apt-get -y -qq install git
git clone --depth 1 https://github.com/armbian/build
cd build
./compile.sh

# fertiges Image liegt dann unter: "build/output/images/"
# Automatischer Build für ein Standard-Image:
01: ./compile.sh  BOARD=bananapim2ultra BRANCH=current RELEASE=buster
BUILD_MINIMAL=yes BUILD_DESKTOP=no KERNEL_ONLY=no KERNEL_CONFIGURE=prebuilt
```

```
COMPRESS_OUTPUTIMAGE=sha,gpg,img
02: ./compile.sh  BOARD=bananapim2ultra BRANCH=current RELEASE=focal
BUILD_MINIMAL=yes BUILD_DESKTOP=no KERNEL_ONLY=no KERNEL_CONFIGURE=prebuilt
COMPRESS_OUTPUTIMAGE=sha,gpg,img
```

Konfig

```
mcedit /etc/apt/sources.list

deb http://deb.debian.org/debian bullseye main contrib non-free
deb-src http://deb.debian.org/debian bullseye main contrib non-free

deb http://deb.debian.org/debian-security/ bullseye-security main contrib
non-free
deb-src http://deb.debian.org/debian-security/ bullseye-security main
contrib non-free

deb http://deb.debian.org/debian bullseye-updates main contrib non-free
deb-src http://deb.debian.org/debian bullseye-updates main contrib non-free
```

```
sudo su
resize2fs /dev/mmcblk0p1
#

apt-get install aptitude armbian-config
apt-get purge locales
aptitude install locales
dpkg-reconfigure locales
# --> en_US.UTF-8
#
#change /boot/armbianEnv.txt to have "verbosity=7" and "console=serial"
mcedit /boot/armbianEnv.txt
#
```

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