JetsonR32.4.4 和 JetsonR32.6.1编译是一样的，具体如下：

1. 下载kernel和fs压缩包：

下载地址： <https://developer.nvidia.com/embedded/linux-tegra>

Jetson\_Linux\_R32.6.1\_aarch64.tbz2

Tegra\_Linux\_Sample-Root-Filesystem\_R32.6.1\_aarch64.tbz2

public\_sources.tbz2

gcc-linaro-7.3.1-2018.05-x86\_64\_aarch64-linux-gnu.tar.xz

1. 解压文件

tar xf Jetson\_Linux\_R32.6.1\_aarch64.tbz2

cd Linux\_for\_Tegra/rootfs/

tar xpf ../../Tegra\_Linux\_Sample-Root-Filesystem\_R32.6.1\_aarch64.tbz2

cd ../../

tar -xjf public\_sources.tbz2

1. 解压内核

cd Linux\_for\_Tegra/source/public

tar -xjf kernel\_src.tbz2

1. 解压toolchain工具链

tar xf gcc-linaro-7.3.1-2018.05-x86\_64\_aarch64-linux-gnu.tar.xz

1. 安装必要的lib：

sudo apt-get install qemu-user-static

sudo apt install build-essential bc

sudo apt-get install ncurses-dev

1. 设置环境变量（根据自己的文件目录设置，可以保存到.bashrc文件里）

TEGRA\_PATH=/home/nx/work/linux/Tegra186\_Linux\_R32.6.1/Linux\_for\_Tegra

TEGRA\_KERNEL\_OUT=/home/nx/work/linux/Tegra186\_Linux\_R32.6.1/Linux\_for\_Tegra/source/public/kernel/kernel-4.9/kernel\_out

TEGRA\_KERNEL\_OUT\_IMAGE\_DTS=/home/nx/work/linux/Tegra186\_Linux\_R32.6.1/Linux\_for\_Tegra/source/public/kernel/kernel-4.9/kernel\_out/arch/arm64/boot

TEGRA\_KERNEL\_PATH=/home/nx/work/linux/Tegra186\_Linux\_R32.6.1/Linux\_for\_Tegra/source/public/kernel/kernel-4.9

CROSS\_COMPILE=/home/nx/work/linux/gcc-linaro-7.3.1-2018.05-x86\_64\_aarch64-linux-gnu/bin/aarch64-linux-gnu-

JETSON\_KERNEL\_SOURCE=/home/nx/work/linux/Tegra186\_Linux\_R32.6.1/Linux\_for\_Tegra/source/

KERNEL\_OUT=$JETSON\_KERNEL\_SOURCE/../build

KERNEL\_MODULES\_OUT=$JETSON\_KERNEL\_SOURCE/../modules

TEGRA\_KERNEL=/home/nx/work/linux/Tegra186\_Linux\_R32.6.1/Linux\_for\_Tegra/kernel

1. 编译

source ~/.bashrc

cd $TEGRA\_KERNEL\_PATH

mkdir -p $TEGRA\_KERNEL\_OUT

配置内核选项

make ARCH=arm64 O=$TEGRA\_KERNEL\_OUT tegra\_defconfig

make ARCH=arm64 O=$TEGRA\_KERNEL\_OUT menuconfig

编译文件

make ARCH=arm64 O=$TEGRA\_KERNEL\_OUT -j12

编译成功后复制image,dtb并打包成kernel压缩包

cd $TEGRA\_KERNEL\_OUT\_IMAGE\_DTS

cp Image $TEGRA\_KERNEL/Image

cp dts/\* $TEGRA\_KERNEL/dtb/ -rf

cd $TEGRA\_KERNEL\_PATH

sudo make ARCH=arm64 O=$TEGRA\_KERNEL\_OUT modules\_install INSTALL\_MOD\_PATH=$TEGRA\_PATH/rootfs

cd $TEGRA\_PATH/rootfs

sudo tar --owner root --group root -cjf kernel\_supplements.tbz2 lib/modules

sudo cp kernel\_supplements.tbz2 ../kernel/kernel\_supplements.tbz2

cd $TEGRA\_PATH

sudo ./apply\_binaries.sh

1. 烧录系统

SDCARD：

./flash.sh p3509-0000+p3668-0000-qspi-sd mmcblk0p1

emmc：

./flash.sh p3509-0000+p3668-0001-qspi-emmc mmcblk0p1

Nvme（jetson-R32.6.1)

./nvsdkmanager\_flash.sh --storage nvme0n1p1

1. 建议：

编译和烧录是最好用root权限。

Nvme烧录时注意在出现Waiting for target to boot-up...的时候要让板子进入recovery模式，它才会继续烧录。