

openharmy5.0-Beta1-ls3a5000系统烧录方法

1、准备烧录目录

```
root@loongson-pc# mkdir ~/ohos-ls3a5000/  
root@loongson-pc# cd ~/ohos-ls3a5000
```

2、下载镜像

```
root@loongson-pc:~/ohos-ls3a5000# wget  
https://rcrepo.loongnix.cn/proj/openharmony/20241031/openharmony5.0-Beta1-images-ls3a5000.tar.gz
```

3、下载烧录工具

```
root@loongson-pc:~/ohos-ls3a5000# wget  
http://rcrepo.loongnix.cn/proj/openharmony/20241031/ls3a5000-ohos-images-tool.sh
```

4、执行烧录

插入硬盘，使用fdisk -l 确认新插入的硬盘的设备名称，如sda。

注意：烧录时会格式化硬盘，请小心操作，仔细确认设备名称。

```
root@loongson-pc:~/ohos-ls3a5000# tar -xf openharmony5.0-Beta1-images-ls3a5000.tar.gz  
root@loongson-pc:~/ohos-ls3a5000# bash ls3a5000-ohos-images-tool.sh /dev/sda ./openharmy5.0-  
Beta1-images-ls3a5000
```

5、可能需要修改的内容

目前系统启动默认使用的是sda设备，如与实际不符，需要手动修改grub配置文件和系统中的fstab配置文件。如实际使用的设备是sdb，修改方法如下：

5.1、修改grub配置

1、挂载设备efi分区，以sda设备为例

```
root@loongson-pc# mount /dev/sda8 /mnt
```

2、修改后内容如下：

```

root@loongson-pc# cat /mnt/boot/grub/grub.cfg
#
# DO NOT EDIT THIS FILE
#
# It is automatically generated by grub-mkconfig using templates
# from /etc/grub.d and settings from /etc/default/grub
#

### BEGIN /etc/grub.d/00_header ###
menuentry 'openharmy GNU/Linux' --class loongnix_20 --class gnu-linux --class gnu --class os
$menuentry_id_option 'gnulinux-simple-02a34910-06df-4c99-8b70-3a99c0b47281' {
    insmod gzio
    if [ x$grub_platform = xxen ]; then insmod xzio; insmod lzopio; fi
    insmod part_gpt
    insmod ext2
    search --no-floppy --set=root -l 'rootfs'
    echo 'Loading Linux ...'
    linux /vmlinuz.efi root=/dev/ram0 rootfstype=ext4 console=ttyS0,115200 console=tty
hardware=ls3a5000 rw
ohos.required_mount.system=/dev/block/sdb1@/usr@ext4@ro,barrier=1@wait,required
ohos.required_mount.vendor=/dev/block/sdb2@/vendor@ext4@ro,barrier=1@wait,required
ohos.required_mount.userdata=/dev/block/sdb6@/data@ext4@rw,barrier=1@wait,required
    echo 'Loading initial ramdisk ...'
    initrd /ramdisk.img
}

```

3、卸载设备

```

root@loongson-pc# umount /mnt

```

5.2、修改fstab.ls3a5000配置

1、挂载设备vendor分区

```

root@loongson-pc# mount /dev/sda2 /mnt

```

2、修改后内容如下：

```

root@loongson-pc# cat /mnt/etc/fstab.ls3a5000
# fstab file.
#<src>                                <mnt_point> <type>      <mnt_flags and
options>                                <fs_mgr_flags>
/dev/block/sdb1          /usr       ext4        ro,barrier=1 wait,required
/dev/block/sdb2          /vendor    ext4        ro,barrier=1 wait,required
/dev/block/sdb3          /chip_ckm  ext4        ro,barrier=1 wait
/dev/block/sdb4          /sys_prod  ext4        ro,barrier=1 wait
/dev/block/sdb5          /chip_prod ext4        ro,barrier=1 wait
#/dev/block/sdb6        /data      f2fs       discard,noatime,nosuid,nodev,fscrypt=2:aes-256-
cts:aes-256-xts,usrquota wait,check,fileencryption=software,quota
#/dev/block/sdb7        /misc     none none wait,required
#
#/dev/block/platform/fe310000.sdhci/by-name/misc /misc     none none wait,required

```

3、卸载设备

```

root@loongson-pc# umount /mnt

```

