

SLAP-ATS200



配件



烧制TF卡

1. 把Image文件放到服务器上，然后把TF卡插入读卡器后，再把读卡器插入服务器
2. 查看TF卡的分区，检查是否有被自动mount。如果有，umountTF卡分区
3. 把image烧录到TF卡里面。烧录时间大概40分钟

```
HwHiAiUser@Adlink-MVP-ATLAS: ~/Downloads/Atlas200
HwHiAiUser@Adlink-MVP-ATLAS:~/Downloads/Atlas200$ sudo fdisk -l /dev/sdb
Disk /dev/sdb: 29.1 GiB, 31221350400 bytes, 60979200 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0xfaa27897

Device      Boot      Start        End    Sectors   Size Id Type
/dev/sdb1           2048 20969471 20967424    10G 83 Linux
/dev/sdb2      20969472 23070719   2101248     1G 83 Linux
/dev/sdb3      23070720 53432319 30361600   14.5G 83 Linux
HwHiAiUser@Adlink-MVP-ATLAS:~/Downloads/Atlas200$ mount | grep sdb
/dev/sdb3 on /media/HwHiAiUser/ubuntu_fs2 type ext3 (rw,nosuid,nodev,relatime,data=ordered,uhelper=udisks2)
/dev/sdb1 on /media/HwHiAiUser/ubuntu_fs type ext3 (rw,nosuid,nodev,relatime,data=ordered,uhelper=udisks2)
/dev/sdb2 on /media/HwHiAiUser/ubuntu_fs1 type ext3 (rw,nosuid,nodev,relatime,data=ordered,uhelper=udisks2)
HwHiAiUser@Adlink-MVP-ATLAS:~/Downloads/Atlas200$ sudo umount /dev/sdb1
HwHiAiUser@Adlink-MVP-ATLAS:~/Downloads/Atlas200$ sudo umount /dev/sdb2
HwHiAiUser@Adlink-MVP-ATLAS:~/Downloads/Atlas200$ sudo umount /dev/sdb3
HwHiAiUser@Adlink-MVP-ATLAS:~/Downloads/Atlas200$ ls
fw_update.sh  rtunicpg.tar.gz  sd32G  sd32G.gz_m5.txt  sd.image  sd.image.tgz
HwHiAiUser@Adlink-MVP-ATLAS:~/Downloads/Atlas200$ dd if=./sd32G of=/dev/sdb bs=8M status=progress
```



在线制TF卡, 内容直接在卡内

在HwHi Ai User@Adlink-MVP-ATLAS: ~/xuan.chen/dlap221/mk_sdcard/, 运行制卡命令, 等待结果, 大概40分钟, 记得umount, 或切到桌面卸载TF卡 **jack1209:test ok!**

```
root@Adlink-MVP-ATLAS: /home/HwHi Ai User/xuan.chen/dlap221# cd mk_sdcard/
```

```
root@Adlink-MVP-ATLAS: /home/HwHi Ai User/xuan.chen/dlap221/mk_sdcard# python3 make_sd_card.py local <your dev name, such as /dev/sdb>
```

```
HwHiAiUser@Adlink-MVP-ATLAS: ~/xuan.chen/dlap221/mk_sdcard/sd_card_making_log$ ls
HwHiAiUser@Adlink-MVP-ATLAS: ~/xuan.chen/dlap221/mk_sdcard/sd_card_making_log$ tail -f make_ubuntu_sd.log
driver filesystem.squashfs make_ubuntu_sd.log no_touch_make_sd_dir sd_mount_dir sd_mount_dir2
HwHiAiUser@Adlink-MVP-ATLAS: ~/xuan.chen/dlap221/mk_sdcard/sd_card_making_log$ tail -f make_ubuntu_sd.log
add rc hook /var/acllib_install.sh
install ACLlib end
install aicpu_kernel begin
/home/HwHiAiUser/xuan.chen/dlap221/mk_sdcard/sd_card_making_log/squashfs-root/home/HwHiAiUser /home/HwHiAiUser/x
/home/HwHiAiUser/xuan.chen/dlap221/mk_sdcard
/home/HwHiAiUser/xuan.chen/dlap221/mk_sdcard
add rc hook /var/aicpu_kernels_install.sh
install aicpu_kernel end
Excute minirc_install_hook.sh success
pre install drvier finished
make_sd_process: 85%
make_sd_process: 90%
fw exist
writeComponents main Succ
fw exist
writeComponents backup Succ
writePartitionHeader Succ
Process: 4/4(Make sysroot)
make sysroot start
make_sd_process: 95%
make_sd_process: 98%
make sysroot end
Finished!
make sd car finished ,clean files
/dev/loop14 984M 984M 0 100% /home/HwHiAiUser/xuan.chen/dlap221/mk_sdcard/sd_card_making_log/no_touch_m
^C
HwHiAiUser@Adlink-MVP-ATLAS: ~/xuan.chen/dlap221/mk_sdcard/sd_card_making_log$ cd ..
HwHiAiUser@Adlink-MVP-ATLAS: ~/xuan.chen/dlap221/mk_sdcard$ ls
AdlinkTools.tgz Ascend-cann-toolkit_20.1.rc1_linux-aarch64.tgz ffmpeg4.1.t
Ascend310-driver-repack-aarch64-minirc.tar.gz Ascend_Samples.tgz install_hoo
Ascend-cann-minirc_20.1.rc1_ubuntu18.04-aarch64.zip deb.tgz make_sd_car
HwHiAiUser@Adlink-MVP-ATLAS: ~/xuan.chen/dlap221/mk_sdcard$ su root
Password:
root@Adlink-MVP-ATLAS: /home/HwHiAiUser/xuan.chen/dlap221/mk_sdcard# python3 make_sd_card.py local /dev/sdb_
```


在线制image, 将卡的内容做成image

1, 可先用fdisk -l /dev/sdb 查看TF卡的信息;

2, 在root@Adlink-MVP-ATLAS: /home/HwHiAIUser/xuan.chen/diap221/dd if=/dev/sdb of=sd_Samsung_26G.img bs=1k count=27262976 conv=notrunc,fsync

注释: if指定导入的设备, of输出到哪个文件, bs读写块大小, count总共读多少块, conv不要截断, 同步写入卡内 **jack1209: test ok!**

```
Disk /dev/loop9: 64.4 MiB, 67477504 bytes, 131792 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/loop10: 2.5 MiB, 2600960 bytes, 5080 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/loop11: 31.1 MiB, 32571392 bytes, 63616 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

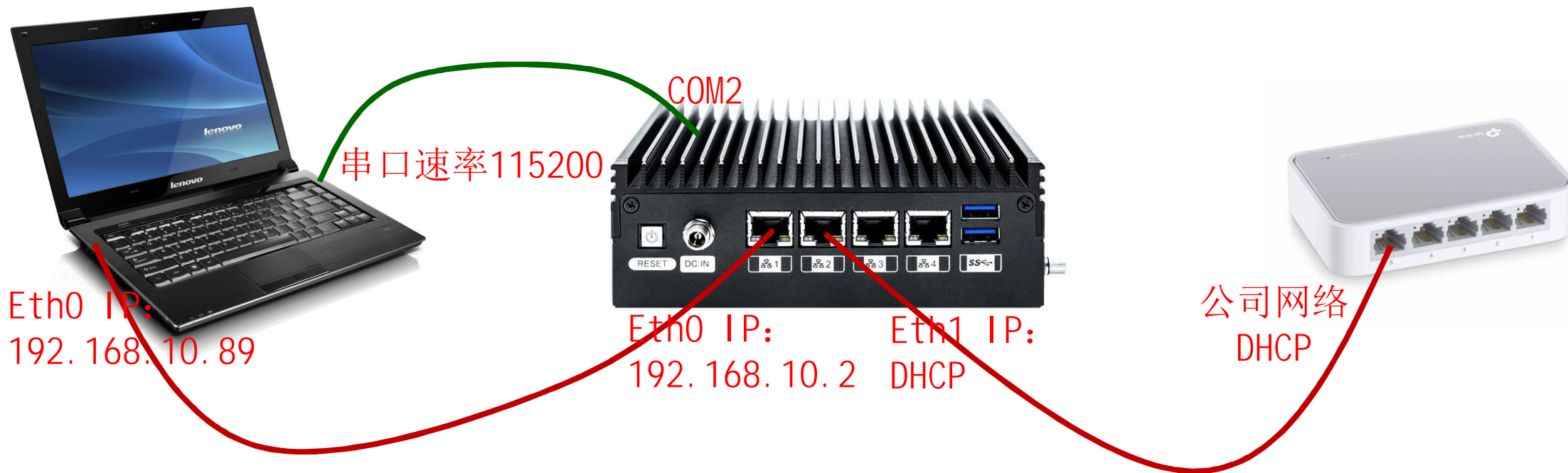
Disk /dev/loop12: 217.9 MiB, 228478976 bytes, 446248 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/loop13: 2.2 MiB, 2273280 bytes, 4440 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/sdb: 29.8 GiB, 32010928128 bytes, 62521344 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x24efc615

Device Boot Start End Sectors Size Id Type
/dev/sdb1 2048 20973567 20971520 10G 83 Linux
/dev/sdb2 20973568 23070719 2097152 1G 83 Linux
/dev/sdb3 23070720 52430847 29360128 14G 83 Linux
root@Adlink-MVP-ATLAS:/home/HwHiAIUser/xuan.chen/diap221# dd if=/dev/sdb of=sd_samsung_26G.img bs=1k count=27262976 conv=notrunc,fsync
```

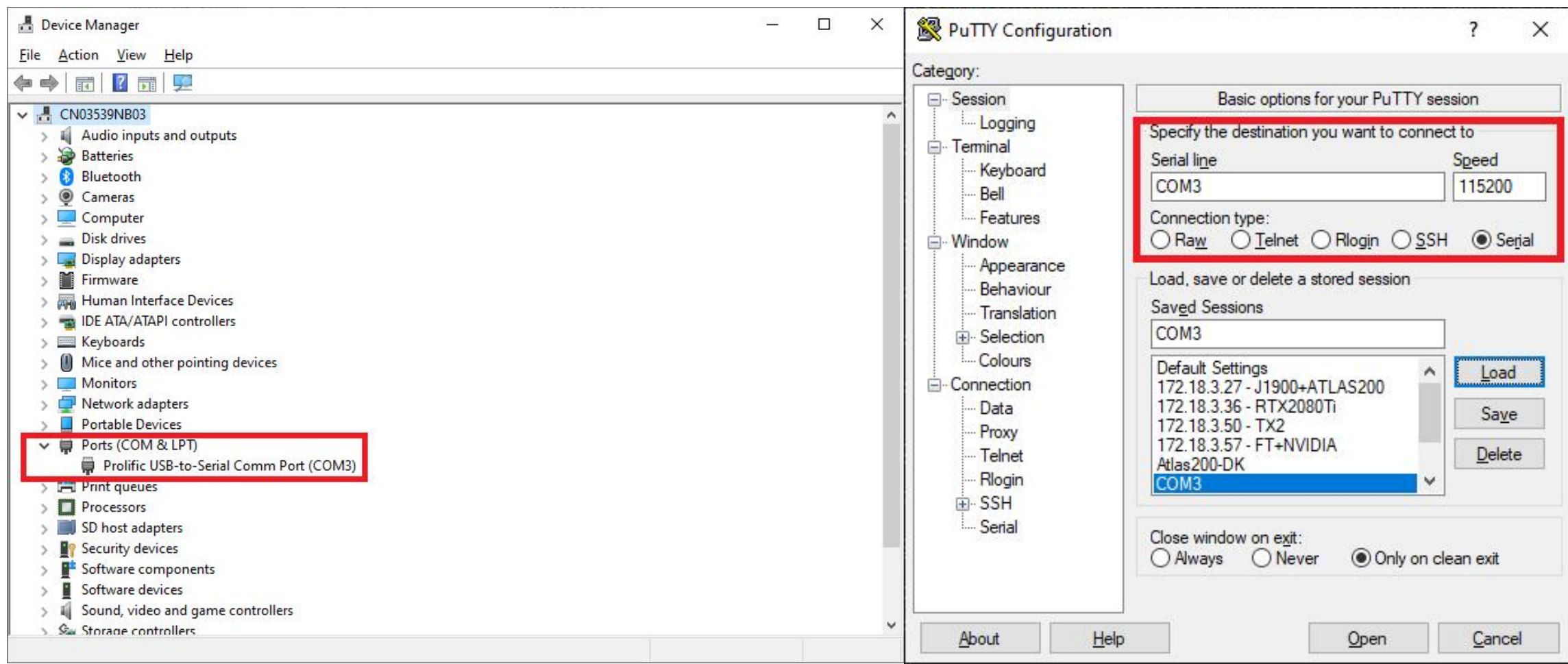
网络和串口连接配置



开机串口登录

1. Windows下USB转串口线的COM端口号
2. Putty设置，速度115200

Jack1205: test ok!



检查模块状态

npu-smi info

```
root@davinci-mini:/home/HwHiAiUser# npu-smi info
+-----+
| npu-smi 20.1.0 | Version: 1.75.22.0.220 |
+-----+
| NPU   Name   | Health | Power (W) | Temp (C) |
| Chip  Device | Bus-Id | AICore (%) | Memory-Usage (MB) |
+-----+
| 0     310   | OK     | 12.8      | 52       |
| 0     0     | NA     | 0         | 2457 / 8192 |
+-----+
```

lspci

```
root@davinci-mini:/home/HwHiAiUser# lspci
80:08.0 PCI bridge: Huawei Technologies Co., Ltd. Device d103 (rev 45)
81:00.0 USB controller: ASMedia Technology Inc. Device 2142
```

Jack1205: test ok!



MAC地址设置

1. 修改配置文件:

```
cd AdlinkTools/rtunicpg/
```

```
vim EF8153BvB.cfg
```

将NODEID的值改为第一个待烧录MAC地址, 注意格式保持一致, **并且该行行尾不能有空格**。

Vim..... :w! 强制写; :q! 强制退出

2. 连续执行以下命令:

```
sudo ./rtunicpg-aarch64-armv8 /efuse /# 0
```

```
sudo ./rtunicpg-aarch64-armv8 /efuse /# 1
```

```
sudo ./rtunicpg-aarch64-armv8 /efuse /# 2
```

EF8153BvB.cfg中的MAC地址会自动递增, 不必手动修改。

3. 使用“ifconfig -a”命令查看是否修改成功。

4. 把三个MAC地址标签贴在网口下面

5, *lsmode 查看有没有加载8153BvB.cfg驱动

Jack1205: test ok!

```
COM3 - PuTTY
HwHiAiUser@davinci-mini:~$ ifconfig
enpl29s0u2ul: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether b6:fc:a6:5f:d0:40 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enpl29s0u2u2: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether b6:fc:a6:5f:d0:41 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enpl29s0u2u3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.18.3.27 netmask 255.255.255.0 broadcast 172.18.3.255
    ether b6:fc:a6:5f:d0:42 txqueuelen 1000 (Ethernet)
    RX packets 1502 bytes 184044 (184.0 KB)
    RX errors 0 dropped 441 overruns 0 frame 0
    TX packets 74 bytes 19053 (19.0 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether ce:e8:58:ed:93:f2 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
    device interrupt 67

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    loop txqueuelen 1000 (Local Loopback)
    RX packets 88 bytes 349808 (349.8 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 88 bytes 349808 (349.8 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

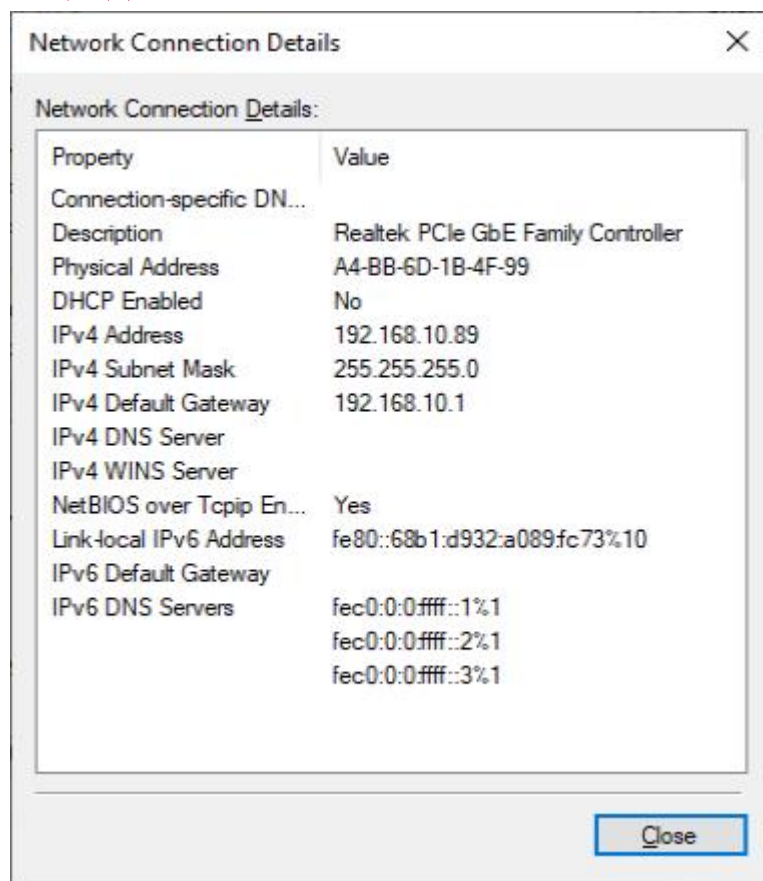
HwHiAiUser@davinci-mini:~$ █
```

网络测试

笔记本上网络IP地址设置为:

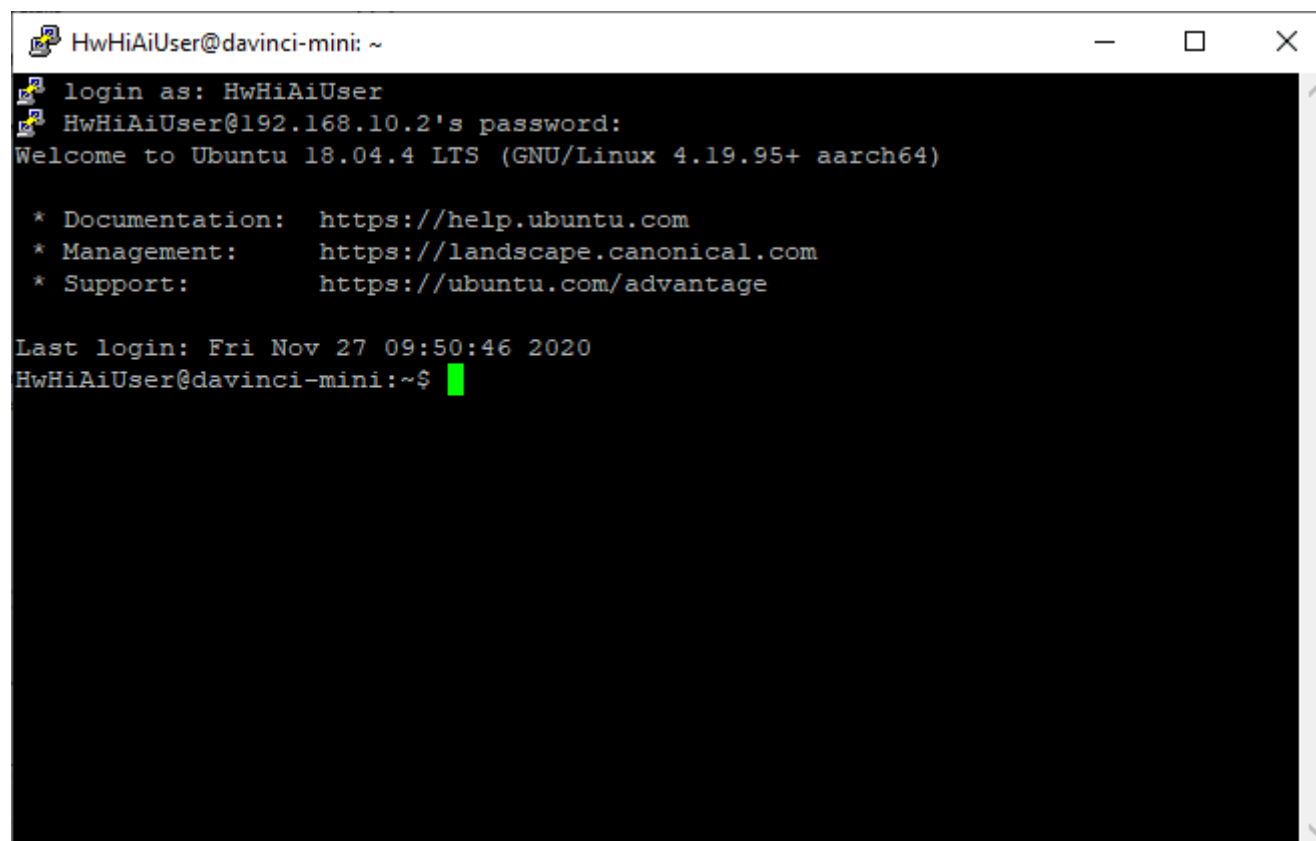
192.168.10.89,

或其他地址192.168.10.101

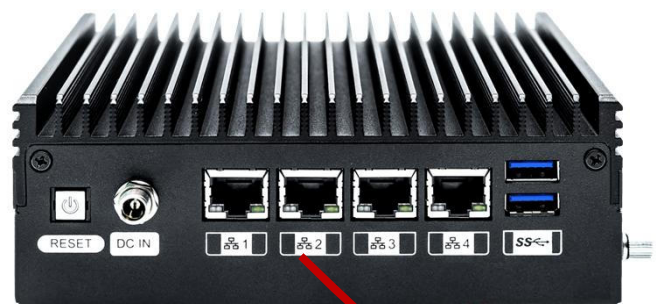


ssh连接到SLAP-ATS200

Jack1205: test ok!



网络测试



公司网络
DHCP

依次测试Eth2, Eth3, Eth4,

确认网口能正确分配到地址

1为eth0, 2, 3, 4为eth1, eth2, eth3

Jack1205: test ok!

```
HwHiAiUser@davinci-mini: ~
HwHiAiUser@davinci-mini:~$
HwHiAiUser@davinci-mini:~$ ifconfig
enpl29s0u2u1: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether b6:fc:a6:5f:d0:40 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enpl29s0u2u2: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether b6:fc:a6:5f:d0:41 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enpl29s0u2u3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.18.3.27 netmask 255.255.255.0 broadcast 172.18.3.255
    ether b6:fc:a6:5f:d0:42 txqueuelen 1000 (Ethernet)
    RX packets 7169 bytes 585831 (585.8 KB)
    RX errors 0 dropped 2255 overruns 0 frame 0
    TX packets 81 bytes 20343 (20.3 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.10.2 netmask 255.255.255.0 broadcast 192.168.10.255
    ether ce:e8:58:ed:93:f2 txqueuelen 1000 (Ethernet)
    RX packets 466 bytes 60631 (60.6 KB)
    RX errors 0 dropped 118 overruns 0 frame 0
    TX packets 55 bytes 10227 (10.2 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
    device interrupt 67

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    loop txqueuelen 1000 (Local Loopback)
    RX packets 98 bytes 350308 (350.3 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 98 bytes 350308 (350.3 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

HwHiAiUser@davinci-mini:~$
```

USB测试

1. U盘插入到第一个USB口, 查看分区信息

```
sudo fdisk -l /dev/sdb
```

2. mount U盘分区到/mnt

```
sudo mount /dev/sdb1 /mnt
```

3. Copy一个大文件到U盘

```
sudo cp  
/home/HwHiAiUser/Ascend_Samples/Samples/build_all  
.sh /mnt
```

可随意拷贝其他文件, 或者在U盘下:

```
sudo touch test
```

```
ls test
```

4. Umount U盘

先移除复制进来的文件, 可返回后重新进入cd /mnt查看

若在/mnt下, 须返回上一级, 然后sudo umount /mnt

1. 拔出U盘, 插入另一个USB口, 重复上述动作

2. 注意! U盘格式不能为NTFS, 不然会不识别

Jack1205: test ok!

```
HwHiAiUser@davinci-mini: ~  
HwHiAiUser@davinci-mini:~$ sudo fdisk -l /dev/sdb  
Disk /dev/sdb: 29.4 GiB, 31609323520 bytes, 61736960 sectors  
Units: sectors of 1 * 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: dos  
Disk identifier: 0x58011237  
  
Device      Boot Start      End  Sectors  Size Id Type  
/dev/sdb1   2048 61736959 61734912 29.4G 83 Linux  
HwHiAiUser@davinci-mini:~$ sudo mount /dev/sdb1 /mnt  
HwHiAiUser@davinci-mini:~$ sudo cp /home/HwHiAiUser/Ascend-Toolkit-20.0.RC1-arm64-linux_gcc7.3.0.run /mnt/  
HwHiAiUser@davinci-mini:~$ ls /mnt  
Ascend-Toolkit-20.0.RC1-arm64-linux_gcc7.3.0.run  lost+found  
HwHiAiUser@davinci-mini:~$ sudo umount /mnt  
HwHiAiUser@davinci-mini:~$ ls /mnt  
HwHiAiUser@davinci-mini:~$
```

硬盘测试

1. 查看硬盘分区

注意：硬盘可能识别不到，须将螺丝拧紧！

```
sudo fdisk -l /dev/sda
```

1. mount硬盘分区

```
sudo mount /dev/sda1 /mnt
```

2. Copy一个大文件到硬盘，测试传输功能

```
sudo cp  
/home/HwHiAiUser/Ascend_Samples/Sample  
s/build_all.sh /mnt
```

3. Umount 硬盘

```
sudo umount /mnt
```

```
root@davinci-mini:~# fdisk -l /dev/sda
Disk /dev/sda: 1.8 TiB, 2000398934016 bytes, 3907029168 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 4096 bytes
I/O size (minimum/optimal): 4096 bytes / 4096 bytes
Disklabel type: dos
Disk identifier: 0x3c0b4749

Device      Boot Start      End  Sectors  Size Id Type
/dev/sda1   2048 20973567 20971520  10G 83 Linux
root@davinci-mini:~# mount /dev/sda1 /mnt
root@davinci-mini:~# ls -l /mnt/
total 20
-rw-r--r-- 1 root root      4 Dec  1 05:50 a.txt
drwx----- 2 root root 16384 Nov 30 05:50 lost+found
root@davinci-mini:~# cp /home/HwHiAiUser/Ascend_Sample/demos/classification/model/googlenet.om /mnt
root@davinci-mini:~# ls /mnt -l
total 14440
-rw-r--r-- 1 root root      4 Dec  1 05:50 a.txt
-rw-r--r-- 1 root root 14763660 Dec  1 05:56 googlenet.om
drwx----- 2 root root  16384 Nov 30 05:50 lost+found
```

Jack1205: test ok!



检查fi rmware版本

```
cd /var/davinci/driver/
```

```
sudo ./upgrade-tool --device_index -1 --component -1 --all --version
```

```
root@davinci-mini:/home/HwHiAiUser# /var/davinci/driver/upgrade-tool --device_index -1 --component -1 --all --version
flash components:
Get component version(1.73.5.1.B050) succeed for deviceId(0), componentType(0).
  {"device_id":0, "component":nve, "version":1.73.5.1.B050}
Get component version(1.73.5.1.B050) succeed for deviceId(0), componentType(1).
  {"device_id":0, "component":xloader, "version":1.73.5.1.B050}
Get component version(1.73.5.1.B050) succeed for deviceId(0), componentType(2).
  {"device_id":0, "component":m3fw, "version":1.73.5.1.B050}
Get component version(1.73.5.1.B050) succeed for deviceId(0), componentType(3).
  {"device_id":0, "component":uefi, "version":1.73.5.1.B050}
Get component version(1.73.5.1.B050) succeed for deviceId(0), componentType(4).
  {"device_id":0, "component":tee, "version":1.73.5.1.B050}
Get component version(1.73.5.1.B050) succeed for deviceId(0), componentType(5).
  {"device_id":0, "component":kernel, "version":1.73.5.1.B050}
Get component version(1.73.5.1.B050) succeed for deviceId(0), componentType(6).
  {"device_id":0, "component":dtb, "version":1.73.5.1.B050}
Get component version(1.3.2.0.893) succeed for deviceId(0), componentType(7).
  {"device_id":0, "component":rootfs, "version":1.3.2.0.893}
Get component version(0.0.0.0.0) succeed for deviceId(0), componentType(10).
  {"device_id":0, "component":aicpu, "version":0.0.0.0.0}

(current boot partition: main)
main partition:
  {"device_id":0, "component":m3fw, "version":1.75.22.0.220}
  {"device_id":0, "component":tee, "version":1.75.22.0.220}
  {"device_id":0, "component":dtb, "version":1.75.22.0.220}
  {"device_id":0, "component":kernel, "version":1.75.22.0.220}

backup partition:
  {"device_id":0, "component":m3fw, "version":1.75.22.0.220}
  {"device_id":0, "component":tee, "version":1.75.22.0.220}
  {"device_id":0, "component":dtb, "version":1.75.22.0.220}
  {"device_id":0, "component":kernel, "version":1.75.22.0.220}
```

Jack1205: test ok!

升级Fi rmware并确认

```
cd /home/HwHi Ai User/Adl i nkTool s/  
sudo ./fw_update.sh
```

Jack1205: test ok!

```
root@davinci-mini:/home/HwHiAiUser# ./fw_update.sh  
Update the nve .....  
{"device": 0, "succeed"}  
Update the xloader .....  
{"device": 0, "succeed"}  
Update the uefi .....  
{"device_id": 0, "schedule": 33%, "status": upgrading}  
{"device_id": 0, "schedule": 79%, "status": upgrading}  
{"device": 0, "succeed"}  
Update the kernel .....  
{"device_id": 0, "schedule": 0%, "status": upgrading}  
{"device_id": 0, "schedule": 7%, "status": upgrading}  
{"device_id": 0, "schedule": 15%, "status": upgrading}  
{"device_id": 0, "schedule": 23%, "status": upgrading}  
{"device_id": 0, "schedule": 31%, "status": upgrading}  
{"device_id": 0, "schedule": 39%, "status": upgrading}  
{"device_id": 0, "schedule": 47%, "status": upgrading}  
{"device_id": 0, "schedule": 56%, "status": upgrading}  
{"device_id": 0, "schedule": 64%, "status": upgrading}  
{"device_id": 0, "schedule": 72%, "status": upgrading}  
{"device_id": 0, "schedule": 80%, "status": upgrading}  
{"device_id": 0, "schedule": 88%, "status": upgrading}  
{"device_id": 0, "schedule": 96%, "status": upgrading}  
{"device_id": 0, "schedule": 99%, "status": upgrading}  
{"device": 0, "succeed"}  
Update the dtb .....  
{"device_id": 0, "schedule": 80%, "status": upgrading}  
{"device": 0, "succeed"}  
Update the tee .....  
{"device": 0, "succeed"}  
Update the m3fw .....  
{"device": 0, "succeed"}  
Refresh the kernel to main partition of mmc.....  
{mmc "/dev/mmcblk1" upgrade component type 3 succeed.}  
Refresh the dtb to main partition of mmc.....  
{mmc "/dev/mmcblk1" upgrade component type 2 succeed.}  
Refresh the kernel to backup partition of mmc.....  
{mmc "/dev/mmcblk1" upgrade component type 3 succeed.}  
Refresh the dtb to backup partition of mmc.....  
{mmc "/dev/mmcblk1" upgrade component type 2 succeed.}
```

```
Show the versions:  
flash components:  
Get component version(1.75.22.0.220) succeed for deviceId(0), componentType(0).  
{"device_id":0, "component":nve, "version":1.75.22.0.220}  
Get component version(1.75.22.0.220) succeed for deviceId(0), componentType(1).  
{"device_id":0, "component":xloader, "version":1.75.22.0.220}  
Get component version(1.75.22.0.220) succeed for deviceId(0), componentType(2).  
{"device_id":0, "component":m3fw, "version":1.75.22.0.220}  
Get component version(1.75.22.0.220) succeed for deviceId(0), componentType(3).  
{"device_id":0, "component":uefi, "version":1.75.22.0.220}  
Get component version(1.75.22.0.220) succeed for deviceId(0), componentType(4).  
{"device_id":0, "component":tee, "version":1.75.22.0.220}  
Get component version(1.75.22.0.220) succeed for deviceId(0), componentType(5).  
{"device_id":0, "component":kernel, "version":1.75.22.0.220}  
Get component version(1.75.22.0.220) succeed for deviceId(0), componentType(6).  
{"device_id":0, "component":dtb, "version":1.75.22.0.220}  
Get component version(1.3.2.0.893) succeed for deviceId(0), componentType(7).  
{"device_id":0, "component":rootfs, "version":1.3.2.0.893}  
Get component version(0.0.0.0.0) succeed for deviceId(0), componentType(10).  
{"device_id":0, "component":aicpu, "version":0.0.0.0.0}  
  
(current boot partition: main)  
main partition:  
{"device_id":0, "component":m3fw, "version":1.75.22.0.220}  
{"device_id":0, "component":tee, "version":1.75.22.0.220}  
{"device_id":0, "component":dtb, "version":1.75.22.0.220}  
{"device_id":0, "component":kernel, "version":1.75.22.0.220}  
  
backup partition:  
{"device_id":0, "component":m3fw, "version":1.75.22.0.220}  
{"device_id":0, "component":tee, "version":1.75.22.0.220}  
{"device_id":0, "component":dtb, "version":1.75.22.0.220}  
{"device_id":0, "component":kernel, "version":1.75.22.0.220}
```


运行分类程序

```
cd  
/home/HwHiAiUser/Ascend_Samples/demos/classification/out/  
./run.sh
```

注意：运行Demo必须以HwHiAiUser用户进行，
不能用root用户（不能用sudo！）

change user (Jack) : su HwHiAiUser

Jack1205: test ok!

```
HwHiAiUser@davinci-mini:/$ ls  
bin  dev  fw    lib          media  opt    root  sbin  sys  usr  
boot etc  home  lost+found  mnt    proc  run   srv   tmp  var  
HwHiAiUser@davinci-mini:/$ cd /home/HwHiAiUser/Ascend_Samples/demos/classification/out  
HwHiAiUser@davinci-mini:~/Ascend_Samples/demos/classification/out$ ls  
main  run.sh  
HwHiAiUser@davinci-mini:~/Ascend_Samples/demos/classification/out$ ./run.sh  
[INFO] Acl init success  
[INFO] Open device 0 success  
[INFO] load model ../model/googlenet.om success  
[INFO] create model description success  
[INFO] create model output success  
[INFO] Read image ../data/rabit.jpg  
[INFO] Resize image ../data/rabit.jpg  
[INFO] model execute success  
[INFO] top 1: index[330] value[0.624512]  
[INFO] top 2: index[331] value[0.373047]  
[INFO] top 3: index[332] value[0.002289]  
[INFO] top 4: index[104] value[0.000003]  
[INFO] top 5: index[106] value[0.000001]  
[INFO] Read image ../data/dog2_1024_683.jpg  
[INFO] Resize image ../data/dog2_1024_683.jpg  
[INFO] model execute success  
[INFO] top 1: index[267] value[0.576172]  
[INFO] top 2: index[265] value[0.182739]  
[INFO] top 3: index[266] value[0.161377]  
[INFO] top 4: index[355] value[0.008614]  
[INFO] top 5: index[279] value[0.007725]  
[INFO] Read image ../data/dog1_1024_683.jpg  
[INFO] Resize image ../data/dog1_1024_683.jpg  
[INFO] model execute success  
[INFO] top 1: index[162] value[0.896484]  
[INFO] top 2: index[166] value[0.041931]  
[INFO] top 3: index[161] value[0.033417]  
[INFO] top 4: index[167] value[0.024841]  
[INFO] top 5: index[163] value[0.001316]  
[INFO] Execute sample success  
[INFO] end to destroy stream  
[INFO] end to destroy context  
[INFO] end to reset device is 0  
[INFO] end to finalize acl  
[INFO] unload model success, modelId is 1  
HwHiAiUser@davinci-mini:~/Ascend_Samples/demos/classification/out$
```


运行目标检测

```
cd  
/home/HwHiAiUser/Ascend_Samples/demos/objectdetection/out/
```

```
bash ./run.sh
```

run.sh是白色的话（网络连接），需用bash去解析脚本

```
bash ./run.sh
```

Jack1205: test ok!

```
HwHiAiUser@davinci-mini:/$ ls  
bin  dev  fw   lib      media  opt   root  sbin  sys  usr  
boot etc  home lost+found mnt    proc  run   srv   tmp  var  
HwHiAiUser@davinci-mini:/$ cd /home/HwHiAiUser/Ascend_Samples/demos/objectdetection/out  
HwHiAiUser@davinci-mini:~/Ascend_Samples/demos/objectdetection/out$ ls  
acl.json  main  output  run.sh  
HwHiAiUser@davinci-mini:~/Ascend_Samples/demos/objectdetection/out$ bash run.sh  
[INFO] acl init success  
[INFO] open device 0 success  
[INFO] create context success  
[INFO] create stream success  
[INFO] load model ../model/yolov3.om success  
[INFO] create model description success  
[INFO] create model output success  
[INFO] dvpp init resource ok  
[INFO] convert image success  
[INFO] model execute success  
48 110 474 261 boat99%  
[INFO] convert image success  
[INFO] model execute success  
115 116 926 598 dog99%  
[INFO] Execute sample success  
[INFO] unload model success, modelId is 1  
[INFO] end to destroy stream  
[INFO] end to destroy context  
[INFO] end to reset device is 0  
[INFO] end to finalize acl  
HwHiAiUser@davinci-mini:~/Ascend_Samples/demos/objectdetection/out$
```

THANK YOU

