1、vi /etc/exports 添加

/opt/mpp \*(subtree\_check,rw,no\_root\_squash,async)

$sudo /etc/init.d/nfs-kernel-server restart

$sudo exportfs -a (最好每修改过/etc/exports后需要执行一次)

2、挂载mpp ：

mount -t nfs -o nolock -o tcp -o rsize=32768,wsize=32768 192.168.2.155:/opt/mpp /mnt/mpp

自动挂载：

在/etc/init.d/rcS文件最后添加：

mount -t nfs -o nolock -o tcp -o rsize=32768,wsize=32768 192.168.2.155:/opt/mpp /mnt/mpp

3、卸载mpp：

umount /mnt/mpp

4、在单板linux系统下，进入mpp/ko目录，加载KO

    cd mpp/ko

    # default online

    ./load3516a -a -sensor mn34220 -osmem 64

    # vi\_vpss offline

    ./load3516a -a -sensor mn34220 -osmem 64 -offline

5、进入各sample目录下执行相应样例程序(sample需要先在服务器上成功编译过)

    cd mpp/sample/vio

    ./sample\_vio 0 1

6、说明：

Running Descriptions of Sample Programs

   1) Sample program running depends on the media driver. Before running a sample demo program, execute the load3518 script in the mpp/ko\_hi3518 to load a specified module.

   2) Note that the corresponding sensor library must be selected. The default sensor is Aptina AR0130. If you want to select other sensors, modify the Makefile.param file. For example, if you select Sony IMX104, you should modify the Makefile.param file as follows:

    #SENSOR\_TYPE ?= SONY\_IMX185\_MIPI\_1080P\_30FPS

SENSOR\_TYPE ?= PANASONIC\_MN34220\_SUBLVDS\_1080P\_30FPS

修改senor：

参看：hi3516a 中 online 与 offline 有什么区别 ?

VI 和VPSS 的协作模式分为以下2 种（模式切换由load 脚本参数控制，对应sys 模块参数vi\_vpss\_online）：

VI/VPSS 离线模式是指VI 进行时序解析后将图像数据写出到DDR，VPSS 从DDR 中载入VI 采集的数据进行图像处理，是传统Hi3518/Hi3520D 等芯片的VI/VPSS 的协作模式。

VI/VPSS 在线模式是指VI 进行时序解析后直接在芯片内部将数据传递到VPSS，中间无DDR 写出的过程。在线模式可以省一定的带宽和内存，降低端到端的延0时。需要注意的是，在线模式时，因为VI 不写出数据到DDR，无法进行CoverEx、OverlayEx、Rotate、LDC 等操作，需要在VPSS 各通道写出后再进行Rotate/LDC 等处理，而且有些功能只在离线下能支持，比如DIS.

一、sample目录：

 sample            # MPP sample program

    |-- common       # Common function used by the sample program

    |-- vio          # Video input/output implementation demo

    |-- venc         # Video encoding implementation demo

    |-- region       # Region implementation demo

    |-- vda          # Video detection analysis (VDA) implementation demo

    |-- audio        # Audio implementation demo

    |-- hifb         # Frame buffer (FB) implementation demo

    |-- tde          # TDE implementation demo

    |-- ......

二、mpp/ko目录

ls mpp/ko/

acodec.ko          hi3516a\_adec.ko  hi3516a\_base.ko   hi3516a\_ive.ko

hi3516a\_sys.ko   hi3516a\_viu.ko   hi\_mipi.ko    load3516d

clkcfg\_hi3516a.sh  hi3516a\_aenc.ko  hi3516a\_chnl.ko   hi3516a\_jpege.ko

hi3516a\_tde.ko   hi3516a\_vou.ko   hi\_rtc.ko     mmz.ko

clkcfg\_hi3516d.sh  hi3516a\_ai.ko    hi3516a\_h264e.ko  hi3516a\_pm.ko

hi3516a\_vda.ko   hi3516a\_vpss.ko  hiuser.ko     pinmux\_hi3516a.sh

demo\_config.sh     hi3516a\_aio.ko   hi3516a\_h265e.ko  hi3516a\_rc.ko

hi3516a\_venc.ko  hifb.ko          hn\_config.sh  sysctl\_hi3516a.sh

extdrv             hi3516a\_ao.ko    hi3516a\_isp.ko    hi3516a\_region.ko

hi3516a\_vgs.ko   hi\_media.ko      load3516a

三、详细介绍各个参数含义:

1、 load3516a [-option] [sensor\_name]

options:

    -i                       insert modules

    -r                       remove modules

    -a                       remove modules first, then insert modules

    -sensor sensor\_name      config sensor type [default: ar0130]

    -osmem os\_mem\_size       config os mem size [unit: M, default: 64]

    -offline                 vi/vpss offline

    -h                       help information

Available sensors: imx178, imx185, mn34220, etc

notes: osmem option can't be used when mmz zone partition is enable

for example  online:   ./load3516a -a -sensor imx178 -osmem 64

                     offline:  ./load3516a -a -sensor imx178 -osmem 64 -offline

sensor type：

imx178 mn34220 imx185 ar0330 ov4689 ov5658 ar0230 imx117 ar0237

2、 sample\_venc

Usage : ./sample\_venc <index>

index:

         0) 1\*1080p H264 + 1\*1080p H265 + 1\*D1 H264 encode.

         1) 1\*1080p MJPEG encode + 1\*1080p jpeg.

         2) low delay encode.

         3) roi background framerate.

         4) svc-t H264

         5) H264 intra refresh.

3、 sample\_vio <index> <intf>

index:

         0)online mode VI/VPSS,1080P; VO(0:SD0(CVBS), 1:BT1120). Embeded isp, phychn channel preview.

         1)online mode VI(WDR)/VPSS,1080P); VO(0:SD0(CVBS), 1:BT1120).Embeded isp,phychn channel preview.

         2)online mode VI(FPN)/VPSS,1080P; VO(0:SD0(CVBS), 1:BT1120).frame mode FPN,Embeded isp,phychn channel preview.

         3)online mode VI/VPSS(LDC),1080P; VO(0:SD0(CVBS), 1:BT1120).Embeded isp, online LDC, phychn channel preview.

         4)online mode VI/VPSS(ROTATE),1080P; VO(0:SD0(CVBS), 1:BT1120).Embeded isp, online, rotate, phychn channel preview.

         5)offline mode VI(ROTATE),1080P; VO(0:SD0(CVBS), 1:BT1120).Embeded isp, offline, rotate, phychn channel preview.

         6)offline mode VI(LDC),1080P; VO(0:SD0(CVBS), 1:BT1120).Embeded isp, offline, LDC, phychn channel preview.

         7)offline mode VI(DIS),1080P; VO(0:SD0(CVBS), 1:BT1120).Embeded isp, offline, DIS, phychn channel preview.

         8)offline mode VI: BT1120; VO(0:SD0(CVBS), 1:BT1120).Isp bypass, phychn channel preview.

         9)offline mode VI; VO(0:SD0(CVBS), 1:BT1120).Embeded isp, resolution switch.

intf:

         0) vo cvbs output, default.

         1) vo BT1120 output.

4、 sample\_hifb

Usage : ./sample\_hifb <intf>

intf:

         0) vo cvbs output, default.

         1) vo BT1120 output.

5、 sample\_region <intf>

intf:

         0) vo cvbs output, default.

         1) vo BT1120 output.

6、 sample\_scene

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

usage: ./sample\_scene ini\_path.

for example: ./sample\_scene ini/IPC/sceneauto\_178.ini

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

cat readme.txt

1. This scene sample can only be run when vi-isp-vpss-venc is running;

2. Different sensors have different configuration file in ini dir;

7、 sample\_tde

Usage : ./sample\_tde <intf>

intf:

         0) vo cvbs output, default.

         1) vo BT1120 output.

./sample\_vda <index>

index:

         0) MD.(QVGA)

         1) OD.(QVGA)

————————————————

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