App camera打开流程:

CameraHardwareComip: camera(0) use default orientation:90

CameraHardwareComip: camera(1) use default orientation:270

CameraHolder: open camera 0

CameraService: CameraService::connect call (PID 2519 "com.android.camera2", camera ID 0) for HAL version default and Camera API version 1

CameraHardwareComip: camera(0) use default orientation:90

AudioFlinger: acquireAudioSessionId() unknown client 2519 for session 20

NuPlayerDriver: NuPlayerDriver(0xb605e260)

NuPlayerDriver: setDataSource(0xb605e260) url(<no-scheme URI suppressed>)

NuPlayerDriver: prepareAsync(0xb605e260)

APEExtractor: SniffAPE start

DataSource: mimeType is application/ogg

MediaExtractor: Autodetected media content as 'application/ogg' with confidence 0.20

NuPlayerDriver: notifyListener\_l(0xb605e260), (1, 0, 0)

AudioFlinger: acquireAudioSessionId() unknown client 2519 for session 21

NuPlayerDriver: NuPlayerDriver(0xb605dfc0)

NuPlayerDriver: setDataSource(0xb605dfc0) url(<no-scheme URI suppressed>)

NuPlayerDriver: prepareAsync(0xb605dfc0)

MediaExtractor: Autodetected media content as 'application/ogg' with confidence 0.20

NuPlayerDriver: notifyListener\_l(0xb605dfc0), (1, 0, 0)

AudioFlinger: acquireAudioSessionId() unknown client 2519 for session 22

NuPlayerDriver: NuPlayerDriver(0xb605df60)

NuPlayerDriver: setDataSource(0xb605df60) url(<no-scheme URI suppressed>)

NuPlayerDriver: prepareAsync(0xb605df60)

FileSource: Failed to open file '/system/media/audio/ui/VideoStop.ogg'. (No such file or directory)

GenericSource: Failed to create data source!

NuPlayerDriver: notifyListener\_l(0xb605df60), (100, 1, -2147483648)

MediaPlayer: error (1, -2147483648)

CameraClient: Opening camera 0

CameraHardwareComip: camera(0) use default orientation:90

CameraHardwareComip: [CAMERA0]CameraHardwareComip V15.3.23.1

ComipCamera: camera sensor name:ov13850-mipi-raw

ComipCamera: sensor(ov13850-mipi-raw) found in SensorRes

//预览和拍照尺寸

ComipCamera: preview cap width=4224, height=3136

ComipCamera: snapshot cap width=4224, height=3136

ComipCamera: m\_preview\_max\_width=1920, height=1080

ComipCamera: m\_snapshot\_max\_width=4160, height=3120

ion : open /dev/ion success fd 18!

[Gralloc]: open gralloc device refcount 1!

GcScale : gc\_create\_2d\_handle =0xb29c2710 on thread 1509, hal=0xb3fbff70

ion : open /dev/ion success fd 19!

ComipCamera: createIonClient fd:19

//支持的预览分辨率

CameraHardwareComip: supported perview sizes : 1920x1080,1280x960,1280x960,768x432,720x480,640x480,640x352,352x288,320x240,176x144

摄像头的最大尺寸

ComipCamera: sensor max size(4160,3120)

ComipCamera: user request max height:0

//支持的图像尺寸:

CameraHardwareComip: supported picture sizes : 4160x3120,4096x2304,4000x3000,3840x2880,3840x2160,3264x2448,3264x1836,2560x1920,2560x1440,2048x1536,2048x1152,1920x1080,1600x1200,1280x960,1280x960,1024x768,640x480,640x352

CameraHardwareComip: supported Metering mode : center-weighted,spot-metering,frame-average

CameraHardwareComip: focal length: 3.85

CameraHardwareComip: supported Focus mode : auto,infinity,macro,continuous-auto,continuous-video,continuous-picture

CameraHardwareComip: supported scene mode : auto,action,portrait,landscape,night,night-portrait,theatre,beach,snow,sunset,steadyphoto,fireworks,sports,party,candlelight,barcode,normal,hdr

CameraHardwareComip: supported effect mode : none,mono,negative,solarize,sepia,posterize,whiteboard,blackboard,aqua

CameraHardwareComip: supported WB mode : auto,incandescent,fluorescent,warm-fluorescent,daylight,cloudy-daylight,twilight,shade

CameraHardwareComip: supported ISO mode : auto,100,200,400,800

CameraHardwareComip: supported antibanding mode : 50hz,60hz,off

CameraHardwareComip: video stabilization supported

CameraHardwareComip: supported exposure defval:0, maxval:3, minval:-3, step:1

CameraHardwareComip: supported saturation defval:0, maxval:2, minval:-2, step:1

CameraHardwareComip: supported sharpness defval:0, maxval:2, minval:-2, step:1

CameraHardwareComip: supported contrast defval:0, maxval:3, minval:-3, step:1

CameraHardwareComip: supported brightness defval:0, maxval:3, minval:-3, step:1

//设置参数

CameraHardwareComip: setParameters

ComipCamera: setMeteringMode

CameraHardwareComip: metering mode: 0(spot-metering)

CameraHardwareComip: picture size: width(4160), height(3120)

CameraHardwareComip: jpeg quality: 100

ComipCamera: allocIonMemory

ComipCamera: allocIonMemory ion\_alloc

ComipCamera: allocIonMemory ion\_share

ComipCamera: allocIonMemory mmap

ComipCamera: allocIonMemory ion\_phys

ComipCamera: allocIonMemory

ComipCamera: allocIonMemory ion\_alloc

ComipCamera: allocIonMemory ion\_share

ComipCamera: allocIonMemory mmap

ComipCamera: allocIonMemory ion\_phys

CameraHardwareComip: jpeg thumbnail size: width(320), height(240)

CameraHardwareComip: zsl number:1

//App 设置的预览大小

CameraHardwareComip: App request preview size w:1920,h:1080

CameraHardwareComip: getpreviewsize from app w:1920,h:1080

CameraHardwareComip: getPreviewFpsRange min\_fps:4000,max\_fps:30000

CameraHardwareComip: set variable frame rate!

ComipCamera: setFocusMode:(focus\_mode(0))

CameraHardwareComip: focus mode: auto, mPreviewRunning: 115

CameraHardwareComip: white balance: auto

CameraHardwareComip: scene mode: auto

CameraHardwareComip: effect: none

CameraHardwareComip: exposure: 0

CameraHardwareComip: iso: auto

CameraHardwareComip: sharpness: 0

CameraHardwareComip: saturation: 0

CameraHardwareComip: contrast: 0

CameraHardwareComip: brightness: 0

CameraHardwareComip: cs: off

ComipCamera: set Antibanding

CameraHardwareComip: antibanding\_str: 50hz

ComipCamera: set video stabilization

ComipCamera: VIDIOC\_S\_CTRL(id = 0x9a0939 (-124122823), value = 0) failed -1

ComipCamera: V4L2\_CID\_SET\_VIDEO\_STABILIZATION failed -1

CameraHardwareComip: video\_stabilization\_str: false

CameraHardwareComip: setCallbacks

CameraHardwareComip: enableMsgType: 0xc0d

CameraHardwareComip: FaceDetectThread sleep at first start...

CameraHardwareComip: previewThreadWrapper

CameraHardwareComip: calling stopPreview() and waiting

ComipCamera: stopPreview: doing nothing

CameraHardwareComip: autoFocusThread

CameraHardwareComip: autoFocusThread : is ready!

//app 设置的预览

CAM\_VideoModule: mDesiredPreviewWidth=1280. mDesiredPreviewHeight=720

CameraHardwareComip: camera(0) use default orientation:90

CameraSettings: max = 3,min = -3, step = 1.0

CameraSettings: maxValue = 3,minValue = -3, step = 1.0

CameraSettings: CameraSettingsinitLeadcorePreference():begin

CameraSettings: CameraSettingsinitLeadcorePreference():endcom.android.camera.IconListPreference@5175706

CameraSettings: getSupportedModules() =[auto, action, portrait, landscape, night, night-portrait, theatre, beach, snow, sunset, steadyphoto, fireworks, sports, party, candlelight, barcode, normal, hdr, panorama, smile, dimcode]

CameraSettings: getSuportedVaules tag=pref\_camera\_brightness\_key

CameraSettings: getSuportedVaules minStr = -3maxStr=3stepStr=1

CameraSettings: getSuportedVaules supportList = [-3, -2, -1, 0, 1, 2, 3]

CameraSettings: getSupportedISO = [auto, 100, 200, 400, 800]

CameraSettings: getSupportedBurstShot() =[]

CameraSettings: getSuportedVaules tag=pref\_camera\_sharpness\_key

CameraSettings: getSuportedVaules minStr = -2maxStr=2stepStr=1

CameraSettings: getSuportedVaules supportList = [-2, -1, 0, 1, 2]

CameraSettings: getSuportedVaules tag=pref\_camera\_saturation\_key

CameraSettings: getSuportedVaules minStr = -2maxStr=2stepStr=1

CameraSettings: getSuportedVaules supportList = [-2, -1, 0, 1, 2]

CameraStorage: getStorageState -S

CameraStorage: getStorageState : mounted -E

CameraStorage: internal state mounted

CameraStorage: getStorageState -S

CameraStorage: getStorageState : removed -E

CameraStorage: sd card state removed

CameraStorage: getStoragePath -S

CameraStorage: getStoragePath : /storage/emulated/0 -E

CameraStorage: descId is 17040579

CameraStorage: getStorageState -S

CameraStorage: getStorageState : mounted -E

CameraStorage: descId state is mounted

CameraStorage: getStoragePath -S

CameraStorage: getStoragePath : /storage/emulated/0 -E

CameraStorage: getStoragePath -S

CameraStorage: getStoragePath : /storage/emulated/0 -E

CameraStorage: descId is 17040579

CameraStorage: getStorageState -S

CameraStorage: getStorageState : mounted -E

CameraStorage: descId state is mounted

CameraStorage: getStoragePath -S

CameraStorage: getStoragePath : /storage/emulated/0 -E

CameraStorage: getStoragePath -S

CameraStorage: getStoragePath : /storage/emulated/0 -E

CameraStorage: descId is 17040580

CameraStorage: getStorageState -S

CameraStorage: getStorageState : removed -E

CameraStorage: descId state is removed

CAM\_Activity: Activity doesn't has focus

CameraSettings: getSuportedVaules tag=pref\_camera\_contrast\_key

CameraSettings: getSuportedVaules minStr = -3maxStr=3stepStr=1

CameraSettings: getSuportedVaules supportList = [-3, -2, -1, 0, 1, 2, 3]

CAM\_VideoModule: sefCameraEffect()none

CameraHardwareComip: setParameters

CameraHardwareComip: App request preview size w:1920,h:1080

CameraHardwareComip: getpreviewsize from app w:1920,h:1080

ComipCamera: passed fmt = 0x3231564e found pixel format[1]: YUV 4:2:0 semi planar, Y/CbCr

CameraHardwareComip: preview width: 1920, preview height: 1080, format: yuv420sp

CameraHardwareComip: getPreviewFpsRange min\_fps:4000,max\_fps:30000

CameraHardwareComip: set variable frame rate!

DMenuUI : initShortMenu

DMenuUI : support ietem pref\_camera\_brightness\_key

DMenuUI : pref\_camera\_storagepath\_key not supported

DMenuUI : pref\_video\_lc\_flash\_key not supported

DMenuUI : support ietem pref\_camera\_lc\_whitebalance\_key

DMenuUI : support ietem pref\_camera\_exposure\_key2

DMenuUI : support ietem pref\_camera\_iso2\_key

DMenuUI : support ietem pref\_video\_dynamicframerate\_key

DMenuUI : support ietem pref\_camera\_antishake\_key

DMenuUI : support ietem pref\_camera\_facedetect\_key

DMenuUI : support ietem pref\_camera\_lc\_hdr\_key

DMenuUI : support ietem pref\_camera\_picturequality\_key

DMenuUI : pref\_camera\_burstshot\_key not supported

DMenuUI : menuItemNum = 8

DMenuUI : boxItemNum = 9

CAM\_Activity: Camera2 Version:201408221045

OrientationEventListener: Cannot detect sensors. Not enabled

CameraSettings: max = 3,min = -3, step = 1.0

CameraSettings: maxValue = 3,minValue = -3, step = 1.0

CameraSettings: CameraSettingsinitLeadcorePreference():begin

CameraSettings: CameraSettingsinitLeadcorePreference():endcom.android.camera.IconListPreference@46da678

CameraSettings: getSupportedModules() =[auto, action, portrait, landscape, night, night-portrait, theatre, beach, snow, sunset, steadyphoto, fireworks, sports, party, candlelight, barcode, normal, hdr, panorama, smile, dimcode]

CameraSettings: getSuportedVaules tag=pref\_camera\_brightness\_key

CameraSettings: getSuportedVaules minStr = -3maxStr=3stepStr=1

CameraSettings: getSuportedVaules supportList = [-3, -2, -1, 0, 1, 2, 3]

CameraSettings: getSupportedISO = [auto, 100, 200, 400, 800]

CameraSettings: getSupportedBurstShot() =[]

CameraSettings: getSuportedVaules tag=pref\_camera\_sharpness\_key

CameraSettings: getSuportedVaules minStr = -2maxStr=2stepStr=1

CameraSettings: getSuportedVaules supportList = [-2, -1, 0, 1, 2]

CameraSettings: getSuportedVaules tag=pref\_camera\_saturation\_key

CameraSettings: getSuportedVaules minStr = -2maxStr=2stepStr=1

CameraSettings: getSuportedVaules supportList = [-2, -1, 0, 1, 2]

CameraStorage: getStorageState -S

CameraStorage: getStorageState : mounted -E

CameraStorage: internal state mounted

CameraStorage: getStorageState -S

CameraStorage: getStorageState : removed -E

CameraStorage: sd card state removed

CameraStorage: getStoragePath -S

CameraStorage: getStoragePath : /storage/emulated/0 -E

CameraStorage: descId is 17040579

CameraStorage: getStorageState -S

CameraStorage: getStorageState : mounted -E

CameraStorage: descId state is mounted

CameraStorage: getStoragePath -S

CameraStorage: getStoragePath : /storage/emulated/0 -E

CameraStorage: getStoragePath -S

CameraStorage: getStoragePath : /storage/emulated/0 -E

CameraStorage: descId is 17040579

CameraStorage: getStorageState -S

CameraStorage: getStorageState : mounted -E

CameraStorage: descId state is mounted

CameraStorage: getStoragePath -S

CameraStorage: getStoragePath : /storage/emulated/0 -E

CameraStorage: getStoragePath -S

CameraStorage: getStoragePath : /storage/emulated/0 -E

CameraStorage: descId is 17040580

CameraStorage: getStorageState -S

CameraStorage: getStorageState : removed -E

CameraStorage: descId state is removed

CAM\_Activity: Activity doesn't has focus

CameraSettings: getSuportedVaules tag=pref\_camera\_contrast\_key

CameraSettings: getSuportedVaules minStr = -3maxStr=3stepStr=1

CameraSettings: getSuportedVaules supportList = [-3, -2, -1, 0, 1, 2, 3]

CAM\_VideoModule: sefCameraEffect()none

CameraHardwareComip: setParameters

CameraHardwareComip: App request preview size w:1920,h:1080

CameraHardwareComip: getpreviewsize from app w:1920,h:1080

ComipCamera: passed fmt = 0x3231564e found pixel format[1]: YUV 4:2:0 semi planar, Y/CbCr

CameraHardwareComip: preview width: 1920, preview height: 1080, format: yuv420sp

CameraHardwareComip: getPreviewFpsRange min\_fps:4000,max\_fps:30000

CameraHardwareComip: set variable frame rate!

DMenuUI : initShortMenu

DMenuUI : shortMenu has initialized

CAM\_VideoModule: mDesiredPreviewWidth=1280. mDesiredPreviewHeight=720

CAM\_VideoModule: startPreview

OrientationEventListener: Cannot detect sensors. Not enabled

OpenGLRenderer: Use EGL\_SWAP\_BEHAVIOR\_PRESERVED: true

CameraStorage: getStoragePath -S

ion : open /dev/ion success fd 32!

[Gralloc]: gralloc\_backend\_register line 85 size15204352 base0x9f5c6000 phys\_addr0 share\_fd30 usage0x100 ion\_hnd\_debug1

CameraStorage: getStoragePath : /storage/emulated/0 -E

CameraStorage: getCurrentStorageDirectory /storage/emulated/0/DCIM/Camera

Util : getimagePath() equal data=/storage/emulated/0/DCIM/Camera/VID\_20220921\_182300.mp4path=/storage/emulated/0/DCIM/Camera

CAM\_VideoUI: doInBackground()/storage/emulated/0/DCIM/Camera/VID\_20220921\_182300.mp4

CAM\_Activity: action = android.intent.action.BATTERY\_CHANGED

CAM\_Activity: current = 100

CAM\_Activity: total = 100

APEExtractor: SniffAPE start

DataSource: mimeType is video/mp4

MediaExtractor: Autodetected media content as 'video/mp4' with confidence 0.40

APEExtractor: SniffAPE start

DataSource: mimeType is video/mp4

MediaExtractor: Autodetected media content as 'video/mp4' with confidence 0.40

ACodec : setVideoFormatOnPort kPortIndexOutput width=1920 height=1080

ACodec : setVideoOutputFormat, before align: width=1920, height=1080

ACodec : setVideoOutputFormat, after align: width=1920, height=1088, nBufferSize=115200

APEExtractor: SniffAPE start

DataSource: mimeType is video/mp4

MediaExtractor: Autodetected media content as 'video/mp4' with confidence 0.40

APEExtractor: SniffAPE start

OpenGLRenderer: Initialized EGL, version 1.4

DataSource: mimeType is video/mp4

MediaExtractor: Autodetected media content as 'video/mp4' with confidence 0.40

mali\_winsys: new\_window\_surface returns 0x3000

gralloc : alloc\_device\_alloc: prepare to alloc buffer, [1080 x 1920], size = 8355840, pixel\_stride =1088 byte\_stride =4352 req\_format = 1, internal\_format=1, usage = 0xb00

gralloc : alloc\_device\_alloc, gc\_gralloc\_wrap succeed, phys = 0xffffffff, vaddr = 0xaf240000, i = 29

gralloc : alloc\_device\_alloc: alloc phys\_addr = 0, base = 0xaf240000, ion\_hnd\_debug = 4

gralloc : alloc\_device\_alloc: prepare to alloc buffer, [1080 x 1920], size = 8355840, pixel\_stride =1088 byte\_stride =4352 req\_format = 1, internal\_format=1, usage = 0xb00

gralloc : alloc\_device\_alloc, gc\_gralloc\_wrap succeed, phys = 0xffffffff, vaddr = 0xadfbb000, i = 30

gralloc : alloc\_device\_alloc: alloc phys\_addr = 0, base = 0xadfbb000, ion\_hnd\_debug = 5

gralloc : alloc\_device\_alloc: prepare to alloc buffer, [1080 x 1920], size = 8355840, pixel\_stride =1088 byte\_stride =4352 req\_format = 1, internal\_format=1, usage = 0xb00

UsbKeyService: g\_tsf\_recv.head.u8Cmd=3

gralloc : alloc\_device\_alloc, gc\_gralloc\_wrap succeed, phys = 0xffffffff, vaddr = 0xad7c3000, i = 31

gralloc : alloc\_device\_alloc: alloc phys\_addr = 0, base = 0xad7c3000, ion\_hnd\_debug = 7

UsbKeyService: g\_tsf\_recv.head.u8Cmd=3

UsbKeyService: socketfd=12, g\_tsf\_send.head.u32PacketSize=48

APEExtractor: SniffAPE start

DataSource: mimeType is video/mp4

MediaExtractor: Autodetected media content as 'video/mp4' with confidence 0.40

CAM\_Activity: onServiceConnected

CAM\_VideoModule: startPreview

CameraHardwareComip: camera(0) use default orientation:90

CAM\_VideoModule: setCameraParameters

CAM\_VideoModule: forceFlashOffIfSupported forceOff = false

CAM\_VideoModule: flashMode = off

CAM\_VideoModule: Video snapshot size is 4096x2304

CAM\_VideoModule: updateLeadcoreParameters():0

CAM\_VideoModule: dynamicFrameRate=off

CAM\_VideoModule: Dynamic isOn=false

CAM\_VideoModule: Set fixed fps range 30000

CameraSettings: readExposure exposure = 0

CAM\_VideoModule: value, min, max = 0,-3,3

CameraHardwareComip: setParameters

CameraHardwareComip: picture size: width(4096), height(2304)

CameraHardwareComip: jpeg quality: 95

CameraHardwareComip: App request preview size w:1280,h:720

CameraHardwareComip: getpreviewsize from app w:1280,h:720

//分辨率不支持

CameraHardwareComip: invalid preview size(1280x720)

CameraHardwareComip: getPreviewFpsRange min\_fps:30000,max\_fps:30000

CameraHardwareComip: set fix frame rate: 30

ComipCamera: setFocusMode:(focus\_mode(5))

CameraHardwareComip: focus mode: continuous-video, mPreviewRunning: 0

CameraHardwareComip: brightness: 3

ComipCamera: set video stabilization

ComipCamera: VIDIOC\_S\_CTRL(id = 0x9a0939 (-124122823), value = 1) failed -1

ComipCamera: V4L2\_CID\_SET\_VIDEO\_STABILIZATION failed -1

CameraHardwareComip: video\_stabilization\_str: true

CameraHardwareComip: disableMsgType: 0x10

CameraHardwareComip: disableMsgType: 0xffff

CameraHardwareComip: stopPreview. running: 0, deferred: 0

CameraHardwareComip: stopPreview

CameraHardwareComip: cancelPicture

CameraHardwareComip: waiting for video picture thread to exit

CameraHardwareComip: Video picture thread has exited

CameraHardwareComip: waiting for picture thread to exit

CameraHardwareComip: picture thread has exited

CameraHardwareComip: release

CameraHardwareComip: FaceDetectThread exit before running!

CameraHardwareComip: facedetect thread exiting

CameraHardwareComip: previewThreadWrapper return from wait: 502281 us

CameraHardwareComip: preview thread exiting

ComipCamera: stopPreview: doing nothing

CameraHardwareComip: autoFocusThread: return from wait.

CameraHardwareComip: autoFocusThread : exiting on request1

CameraHardwareComip: callbackThread : exiting on request, continue to do last callback

CameraHardwareComip: mCallbackInfoList empty, ignore this signal

ComipCamera: OSAL Destory

ComipCamera: OSAL Allocator not ready.

ComipCamera: freeIonMemory

ComipCamera: munmap vaddr

ComipCamera: close share\_fd

ComipCamera: freeIonMemory ion\_free hnd

ComipCamera: freeIonMemory

ComipCamera: munmap vaddr

ComipCamera: close share\_fd

ComipCamera: freeIonMemory ion\_free hnd

ComipCamera: deleteIonClient fd:19

ComipCamera: close back camera HDR,when change to front camera

UsbKeyService: g\_tsf\_recv.head.u8Cmd=3

UsbKeyService: socketfd=13, g\_tsf\_send.head.u32PacketSize=48

EMERGRNCYCALL: run: false17040040

CameraFlashlight: Destroying camera 0

CameraHardwareComip: [CAMERA0]~CameraHardwareComip

CameraService: disconnect: Disconnected client for camera 0 for PID 2519