```
#include "mvc2api.h"
#include "CMXFParserModule.h"
#include "mvc2api_securitymanager.h"
#pragma warning(disable : 4996)
#include <cstdio>
#include <cstdlib>
#include <cstring>
using namespace mvc2;
/// XLQ:
#define MM_LINUX
#define MVC2API NETWORK ONLY
#define IMB IP ADDRESS "10.7.75.1"
/// XLQ
const char* bin2hex(unsigned char* bin_buf,
    unsigned int bin len,
    char* str_buf,
    unsigned int str_len)
    if ( bin_buf == 0
        || str_buf == 0
        || ((bin len * 2) + 1) > str len )
        return 0;
    //#ifdef CONFIG RANDOM UUID
    // const char* use random uuid = getenv("KM USE RANDOM UUID");
    // if ( use_random_uuid != 0 && use_random_uuid[0] != 0 && use_random_uuid[0] != '0' )
    // return bin2hex_rand(bin_buf, bin_len, str_buf, str_len);
    //#endif
    char* p = str buf;
    for ( unsigned int i = 0; i < bin_len; i++ )
        *p = (bin buf[i] >> 4) & 0x0f;
        *p += *p < 10 ? 0x30 : 0x61 - 10;
        p++;
        *p = bin_buf[i] & 0x0f;
        *p += *p < 10 ? 0x30 : 0x61 - 10;
        p++;
    }
    *p = ' \setminus 0';
    return str_buf;
```

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```
TMmRc TransferAudio_CT(MvcDecoder& dec,
    const unsigned char *audioDataBuffer,
    unsigned long &audioDataLength,
   unsigned int &m_uPlaintextOffset,
    unsigned int &m_uSourceLength,
    bool &m bHmacFlag,
    char *m_cKeyID)
    DataBuffer dataBuffer;
    TMmRc ret = MMRC_Ok;
    ret = dec.getDataBuffer(dataBuffer, 36000 * 10);
   if (MM_IS_ERROR(ret))
        printf("could not get audio databuffer -> abort\n");
       return(ret);
   }
    uint32_t readbytes = 0;
   /// XLQ:从IV段、CV段这32个字节的后面PlainText Offset段的开始取值,到E(V)的最后一个字节!!!
   if(true == m_bHmacFlag)
       memcpy( dataBuffer.getBufferAddress(),
            (audioDataBuffer + 32),
            (audioDataLength - 32 - 56));
       readbytes = audioDataLength - 32 - 56;
        dataBuffer.setMicValue( (audioDataBuffer + (audioDataLength - 56) ), 56);
   }
   else
       memcpy( dataBuffer.getBufferAddress(),
            (audioDataBuffer + 32),
            (audioDataLength - 32) );
        readbytes = audioDataLength - 32;
   }
    dataBuffer.setDecryptionSize(m_uPlaintextOffset, m_uSourceLength);
    char keyId[64] = "";
    bin2hex((unsigned char *)m_cKeyID, 16, keyId, 64);
   //printf("%s", keyId);
   mvc2::UuidValue keyid(keyId);
    //mvc2::UuidValue keyid = "25091308b27ed5bf19daec4a1b32a6be";
```

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```
dataBuffer.setKeyId(keyid, audioDataBuffer, audioDataBuffer + 16);
    //dataBuffer.setKeyIndex(1, audioDataBuffer, audioDataBuffer + 16);
    uint32_t padding = (16 - (readbytes & 0x0f)) & 0x0f;
    uint8 t *buf = dataBuffer.getBufferAddress();
    for (uint32 t i = 0; i < padding; i++)
       buf[readbytes + i] = 0;
    dataBuffer.send(readbytes + padding);
   return(ret);
TMmRc TransferVideo_CT(MvcDecoder& dec,
    const unsigned char *videoDataBuffer,
    unsigned long &videoDataLength,
    unsigned int &m_uPlaintextOffset,
    unsigned int &m_uSourceLength,
    bool &m bHmacFlag,
    char *m_cKeyID)
    DataBuffer dataBuffer;
    TMmRc ret = MMRC_Ok;
    ret = dec.getDataBuffer(dataBuffer, 2 * 1024 * 1024);
   if (MM IS ERROR(ret))
   {
       printf("could not get databuffer -> abort\n");
       return(ret);
   }
    uint32_t readbytes = 0;
   /// XLQ:从IV段、CV段这32个字节的后面PlainText Offset段的开始取值,到E(V)的最后一个字节!!!
   if(true == m bHmacFlag)
       memcpy( dataBuffer.getBufferAddress(),
            (videoDataBuffer + 32),
            (videoDataLength - 32 - 56) );
       readbytes = videoDataLength - 32 - 56;
       dataBuffer.setMicValue( (videoDataBuffer + (videoDataLength - 56) ), 56);
   else
```

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```
memcpy( dataBuffer.getBufferAddress(),
            (videoDataBuffer + 32),
            (videoDataLength - 32) );
        readbytes = videoDataLength - 32;
   }
    dataBuffer.setDecryptionSize(m uPlaintextOffset, m uSourceLength);
   char keyId[64] = "";
    bin2hex((unsigned char *)m_cKeyID, 16, keyId, 64);
    //printf("%s", keyId);
    mvc2::UuidValue keyid(keyId);
    //mvc2::UuidValue keyid = "007203b983345b84bcb0c928e8bab01b";
    dataBuffer.setKeyId(keyid, videoDataBuffer, videoDataBuffer + 16);
    //dataBuffer.setKeyIndex(0, videoDataBuffer, videoDataBuffer + 16);
    uint32_t padding = (16 - (readbytes & 0x0f)) & 0x0f;
    uint8_t *buf = dataBuffer.getBufferAddress();
    for (uint32 t i = 0; i < padding; i++)
        buf[readbytes + i] = 0;
   // datbuf.setUserData(framecount);
   //printf("sending pic %d\n",framecount);
   //printf("readbytes %d\n", readbytes);
   //printf("padding %d\n", padding);
    dataBuffer.send(readbytes + padding);
   //fclose(infile);
   //datbuf.wait(100);
   return(ret);
TMmRc TransferVideo PT(MvcDecoder& dec, char *videoDataBuffer, unsigned long &videoDataLength)
    DataBuffer dataBuffer;
    TMmRc ret = MMRC_Ok;
    ret = dec.getDataBuffer(dataBuffer, 2 * 1024 * 1024);
   if (MM_IS_ERROR(ret))
   {
       printf("could not get databuffer -> abort\n");
        return(ret);
```

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file:///home/shell.albert/play_3d.html

```
memcpy(dataBuffer.getBufferAddress(), videoDataBuffer, videoDataLength);
    uint32 t readbytes = videoDataLength;
    // copy one frame here (as an example we fill the buffer with 1's)
    //uint32 t readbytes = static_cast<uint32_t>(fread(datbuf.getBufferAddress(),1,(size_t)(datbuf.getFreeSize()),infile));
   //int readbytes = fread(datbuf.getBufferAddress(), 1, 1301870, infile);
    //printf("datbuf.getFreeSize() %d\n", datbuf.getFreeSize());
    //printf("readbytes1 %d\n", readbytes);
    uint32 t padding = (16 - (readbytes & 0x0f)) & 0x0f;
    uint8 t *buf = dataBuffer.getBufferAddress();
    for (uint32 t i = 0; i < padding; i++)
        buf[readbytes + i] = 0;
   }
   // datbuf.setUserData(framecount);
    //printf("sending pic %d\n",framecount);
    //printf("readbytes %d\n", readbytes);
    //printf("padding %d\n", padding);
    dataBuffer.send(readbytes + padding);
    //fclose(infile);
   //datbuf.wait(100);
    return(ret);
TMmRc TransferVideo_PT(MvcDecoder& dec,
    MvcDecoder& dec right,
    char *videoDataBuffer,
    unsigned long &videoDataLength,
    char *videoDataBuffer right,
    unsigned long &videoDataLength right)
    DataBuffer dataBuffer;
    TMmRc ret = MMRC Ok;
    ret = dec.getDataBuffer(dataBuffer, 2 * 1024 * 1024);
    if (MM IS ERROR(ret))
        printf("could not get databuffer -> abort\n");
       return(ret);
    memcpy(dataBuffer.getBufferAddress(), videoDataBuffer, videoDataLength);
    uint32_t readbytes = videoDataLength;
    // copy one frame here (as an example we fill the buffer with 1's)
    //uint32_t readbytes = static_cast<uint32_t>(fread(datbuf.getBufferAddress(),1,(size_t)(datbuf.getFreeSize()),infile));
    //int readbytes = fread(datbuf.getBufferAddress(), 1, 1301870, infile);
```

play_3d.cpp

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```
//printf("datbuf.getFreeSize() %d\n", datbuf.getFreeSize());
//printf("readbytes1 %d\n", readbytes);
uint32 t padding = (16 - (readbytes & 0x0f)) & 0x0f;
uint8 t *buf = dataBuffer.getBufferAddress();
for (uint32 t i = 0; i < padding; i++)
    buf[readbytes + i] = 0;
// datbuf.setUserData(framecount);
//printf("sending pic %d\n",framecount);
//printf("readbytes %d\n", readbytes);
//printf("padding %d\n", padding);
dataBuffer.send(readbytes + padding);
//fclose(infile);
//datbuf.wait(100);
/// XLO:右眼
DataBuffer dataBuffer right;
TMmRc ret right = MMRC Ok;
ret right = dec right.getDataBuffer(dataBuffer right, 2 * 1024 * 1024);
if (MM_IS_ERROR(ret_right))
    printf("could not get databuffer -> abort\n");
    return(ret_right);
}
memcpy(dataBuffer right.getBufferAddress(), videoDataBuffer right, videoDataLength right);
uint32 t readbytes right = videoDataLength right;
// copy one frame here (as an example we fill the buffer with 1's)
//uint32 t readbytes = static cast<uint32 t>(fread(datbuf.getBufferAddress(),1,(size t)(datbuf.getFreeSize()),infile));
//int readbytes = fread(datbuf.getBufferAddress(), 1, 1301870, infile);
//printf("datbuf.getFreeSize() %d\n", datbuf.getFreeSize());
//printf("readbytes1 %d\n", readbytes);
uint32 t padding right = (16 - (readbytes right & 0x0f)) & 0x0f;
uint8 t *buf right = dataBuffer right.getBufferAddress();
for (uint32 t i right = 0; i right < padding right; i right++)
    buf right[readbytes right + i right] = 0;
// datbuf.setUserData(framecount);
//printf("sending pic %d\n",framecount);
//printf("readbytes %d\n", readbytes);
//printf("padding %d\n", padding);
dataBuffer right.send(readbytes right + padding right);
//fclose(infile);
```

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```
//datbuf.wait(100);
    return(ret);
TMmRc TransferAudio_PT(MvcDecoder& dec, char *audioDataBuffer, unsigned long &audioDataLength)
    DataBuffer dataBuffer;
    TMmRc ret = MMRC_Ok;
    ret = dec.getDataBuffer(dataBuffer, 36000 * 10);
    if (MM IS ERROR(ret))
    {
        printf("could not get audio databuffer -> abort\n");
        return(ret);
    }
    memcpy(dataBuffer.getBufferAddress(), audioDataBuffer, audioDataLength);
    uint32_t readbytes = audioDataLength;
    uint32_t padding = ( 16 - (readbytes & 0x0f) ) & 0x0f;
    uint8_t *buf = dataBuffer.getBufferAddress();
    for (uint32 t i = 0; i < padding; i++)
        buf[readbytes + i] = 0;
    // datbuf.setUserData(framecount);
    //printf("sending pic %d\n",framecount);
    //printf("readbytes %d\n", readbytes);
    //printf("padding %d\n", padding);
    dataBuffer.send(readbytes + padding);
    //datbuf.send(audiosDataLength);
    return(ret);
#if 1
/// XLQ:播放明文3D的例子。
int main(int argc, char **argv)
    printf("这是一个播放明文3D影片的例子\n");
    TMmRc ret;
    /// XLQ:连接板卡。
    // use first card example
    MvcDevice mvcdevice;
    /// XLQ:
#ifndef MVC2API_NETWORK_ONLY
```

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```
if (! ( mvcdevice = MvcDeviceIterator().getIndex(0) ) )
#else
   if (! ( mvcdevice = MvcNetDeviceIterator(IMB_IP_ADDRESS).getIndex(0) ) )
#endif
        /// XLO
   {
        printf("MVC card not found\n");
        exit(0);
   }
   else
        printf("MVC card is found!\n");
    }
   /// XLQ:视频左眼部分
    Jpeg2kDecoder j2kdecLeft(&ret, mvcdevice);
   if (MM_IS_ERROR(ret))
        printf("failed to create Jpeg2k left video decoder: %d\n",ret);
        exit(0);
   }
    j2kdecLeft.setFrameRate(24.00);
                                          // set frame rate, so we don't need to set timestamps anymore
   /// XLQ:视频右眼部分
    Jpeg2kDecoder j2kdecRight(&ret, j2kdecLeft);
   if (MM_IS_ERROR(ret))
        printf("failed to create Jpeg2k right video decoder: %d\n",ret);
        exit(0);
   }
    j2kdecRight.setFrameRate(24.00);
                                           // set frame rate, so we don't need to set timestamps anymore
   /// XLQ:创建左眼VideoOutput
   // create the video output
    //VideoOutput videoout(&ret, mvcdevice, VideoOutput::VideoProperty Default);
    VideoOutput videoOutLeft(&ret, mvcdevice, VideoOutput::VideoProperty Dual HDTV);
   if (MM IS ERROR(ret))
   {
        printf("failed to create left video output: %d\n",ret);
        exit(0);
   // setting a video mode (optional)
   //if (MM_IS_ERROR(ret = videoout.setVideoMode(VideoMode::Mode_1920_1080_2400_p)))
    if (MM IS ERROR(ret = videoOutLeft.setVideoMode(VideoMode::Mode 2048 1080 2400 p)))
```

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```
//if (MM IS ERROR(ret = videoout.setVideoMode(VideoMode::Mode 2048 1080 4800 p)))
{
    printf("failed to set left video mode: %d\n",ret);
//printf("getActiveVideoMode():%d\n", videoout.getActiveVideoMode());
/// XLQ:创建右眼VideoOutput!
VideoOutput videoOutRight(&ret, videoOutLeft);
if (MM_IS_ERROR(ret))
{
    printf("failed to create right video right output: %d\n",ret);
    exit(0);
}
// setting a video mode (optional)
//if (MM_IS_ERROR(ret = videoout.setVideoMode(VideoMode::Mode_1920_1080_2400_p)))
if (MM IS ERROR(ret = videoOutRight.setVideoMode(VideoMode::Mode 2048 1080 2400 p)))
{
    printf("failed to set right video mode: %d\n",ret);
}
//printf("video right getActiveVideoMode():%d\n", videoout_right.getActiveVideoMode());
//if (MM_IS_ERROR(ret = videoout_right.setOutputActivity(VideoOutput::Activity_Primary_Secondary_as_Overlay)))
//{
//
      printf("failed to video right setOutputActivity: %d\n",ret);
//}
      // connect decoder with video output
//if (MM_IS_ERROR(ret = j2kdec_right.connectOutput(videoout)))
//{
//
      printf("failed to connect decoder with video output: %d\n",ret);
//
      exit(0);
//}
// connect decoder with video output
if (MM IS ERROR(ret = j2kdecLeft.connectOutput(videoOutLeft)))
{
    printf("failed to connect left decoder with left video output: %d\n",ret);
    exit(0);
}
if (MM_IS_ERROR(ret = j2kdecRight.connectOutput(videoOutRight)))
    printf("failed to connect right decoder with right video output: %d\n",ret);
    exit(0);
```

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```
//// XLO:字幕部分
//SubtitleDecoder subtitleDec(&ret, mvcdevice);
//if (MM_IS_ERROR(ret))
//{
      printf("failed to create subtitle decoder: %d\n", ret);
//
//
      exit(0);
//}
//// connect decoder with video output
//if (MM_IS_ERROR(ret = subtitleDec.connectOutput(videooutLeft)))
//{
//
      printf("failed to connect decoder with video output: %d\n",ret);
//
      exit(0);
//}
/// XLQ:音频部分
PCMDecoder pcmDec(&ret, mvcdevice, 24, 6);
if (MM IS ERROR(ret))
{
    printf("failed to create pcm audio decoder: %d\n", ret);
    exit(0);
}
AudioOutput audioout(&ret, mvcdevice, 6);
if (MM_IS_ERROR(ret))
    printf("failed to create audio output: %d\n",ret);
    exit(0);
}
if (MM IS ERROR(ret = audioout.setOutputFrequency(48000)))
{
    printf("failed to set audio output frequency: %d\n",ret);
// connect decoder with video output
if (MM IS ERROR(ret = pcmDec.connectOutput(audioout)))
    printf("failed to connect decoder with audio output: %d\n",ret);
    exit(0);
}
///
/// XLQ:播放控制部分
PlaybackControl playctrl(&ret, mvcdevice);
if (MM_IS_ERROR(ret))
```

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```
printf("failed to create playback control: %d\n",ret);
    exit(0);
}
// connect decoder with playback
ret = playctrl.connect(j2kdecLeft);
if (MM IS ERROR(ret))
    printf("failed to connect playback control with left video decoder: %d\n",ret);
    exit(0);
}
ret = playctrl.connect(j2kdecRight);
if (MM_IS_ERROR(ret))
    printf("failed to connect playback control with right video decoder: %d\n",ret);
    exit(0);
}
// connect decoder with playback
//ret = playctrl.connect(subtitleDec);
//if (MM IS ERROR(ret))
//{
//
     printf("failed to connect playback control with subtilte decoder: %d\n",ret);
//
      exit(0);
//}
/// XLQ:
ret = playctrl.connect(pcmDec);
if (MM IS ERROR(ret))
    printf("failed to connect playback control with audio decoder: %d\n",ret);
    exit(0);
}
///
char *videoDataBufferLeft = new char[2 * 1024 * 1024];
unsigned long videoDataLengthLeft = 0;
char *videoDataBufferRight = new char[2 * 1024 * 1024];
unsigned long videoDataLengthRight = 0;
char *audioDataBuffer = new char[36000 * 10];
unsigned long audioDataLength = 0;
CMXFParserModule cmxfParserModule;
unsigned long vidoeFrameSum = 0;
unsigned long audioFrameSum = 0;
cmxfParserModule.Init3DVideoParser("D:\\LIXIAOLONG 3D\\LIXIAOLONG JPEG3D\\LIXIAOLONG JPEG3D 01.mxf", vidoeFrameSum);
cmxfParserModule.InitAudioParser("D:\\LIXIAOLONG 3D\\LIXIAOLONG JPEG3D\\LIXIAOLONG JPEG3D audio 01.mxf", audioFrameSum);
```

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```
double m dAspectRatio = 0;
    unsigned long m uWidthSize = 0;
    unsigned long m_uHeightSize = 0;
    unsigned long m uFrameRate = 0;
    bool m bHmacFlag1 = false;
    bool m_bCryptoFlag1 = false;
    char m cKeyID1[16] = "";
    cmxfParserModule.Get3DVideoInfo(m dAspectRatio,
        m uWidthSize,
        m_uHeightSize,
        m uFrameRate,
        m bHmacFlag1,
        m bCryptoFlag1,
        m_cKeyID1);
    if(true == m_bCryptoFlag1)
        /// XLQ:播放的是密文。
        return -1;
    }
    unsigned long m_uSamplingRate = 0;
    unsigned long m uChannelCount = 0;
    unsigned long m_uBitsPerSample = 0;
    bool m_bHmacFlag2 = false;
    bool m bCryptoFlag2 = false;
    char m_cKeyID2[16] = "";
    cmxfParserModule.GetAudioInfo(m_uSamplingRate,
        m_uChannelCount,
        m uBitsPerSample,
        m_bHmacFlag2,
        m_bCryptoFlag2,
        m cKeyID2);
    if(true == m bCryptoFlag2)
        /// XLQ:播放的是密文。
        return -1;
    }
      /// XLQ:将字幕数据作为缓冲提前载入
      uint8_t *data = new uint8_t[10 * 1024 * 1024];
      uint32_t dataSize = 0;
      FILE *subtitleXmlFile = fopen("D:\\dieying3_xyz_sub\\a00ccb11-62d4-46b1-bd05-c14b86bea9d7\\dieying3_chinese_subtitle.xml", "rb");
      fread(data, 1, 10244, subtitleXmlFile);
      dataSize = 10244;
//
      fclose(subtitleXmlFile);
```

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```
uint32 t resourceId = 0;
      ret = subtitleDec.sendSubtitleFile(data, dataSize, &resourceId);
      if (MM_IS_ERROR(ret))
          printf("failed to sendSubtitleFile: %d\n", ret);
          exit(0);
      else
          printf("resourceId=%d\n", resourceId);
      //// XLQ:载入字体文件
//#if 1
      FILE *subtitleFontFile = fopen("D:\\dieying3 xyz sub\\a00ccb11-62d4-46b1-bd05-c14b86bea9d7\\simhei-C.ttf", "rb");
      fread(data, 1, 54904, subtitleFontFile);
      dataSize = 54904;
      fclose(subtitleFontFile);
      ret = subtitleDec.sendOverlayElement("simhei-C.ttf", data, dataSize, resourceId);
     if (MM_IS_ERROR(ret))
      {
          printf("failed to sendOverlayElement: %d\n", ret);
          exit(0);
//#else
      OverlayElementDataBuffer element;
      subtitleDec.getDataBuffer(element);
//
      if (element)
          element.setElementName("simhei-C.ttf", resourceId);
          FILE *fontfile = fopen("D:\\dieying3 xyz sub\\a00ccb11-62d4-46b1-bd05-c14b86bea9d7\\simhei-C.ttf", "rb");
          if (fontfile)
              ret = element.send(fread(element.getBufferAddress(),1,element.getFreeSize(),fontfile));
              if (MM IS ERROR(ret))
                  printf("failed to element.send: %d\n", ret);
                  exit(0);
              fclose(fontfile);
          else
              printf("could not open font: %s\n","D:\\dieying3_xyz_sub\\a00ccb11-62d4-46b1-bd05-c14b86bea9d7\\simhei-C.ttf");
```

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```
//#endif
   //ret = subtitleDec.enableSubtitles(0, SubtitleDecoder::Render_Soft_Shadows);
   //if (MM IS ERROR(ret))
   //{
   //
         printf("failed to enableSubtitles: %d\n", ret);
   //
         exit(0);
   //}
   for (int i = 0; i < 20; i++)
                                                       // 20 picture preload before run
       unsigned int m uPlaintextOffsetLeft = 0;
       unsigned int m_uSourceLengthLeft = 0;
       unsigned int m uPlaintextOffsetRight = 0;
       unsigned int m uSourceLengthRight = 0;
       cmxfParserModule.Get3DFrameData(i,
           videoDataBufferLeft,
           videoDataLengthLeft,
           m_uPlaintextOffsetLeft,
           m uSourceLengthLeft,
           videoDataBufferRight,
           videoDataLengthRight,
           m uPlaintextOffsetRight,
           m_uSourceLengthRight);
       ret = TransferVideo_PT(j2kdecLeft,
           videoDataBufferLeft,
           videoDataLengthLeft);
       if (ret)
           exit(0);
       ret = TransferVideo_PT(j2kdecRight,
           videoDataBufferRight,
           videoDataLengthRight);
       if (ret)
           exit(0);
       unsigned int m uPlaintextOffsetAudio = 0;
       unsigned int m_uSourceLengthAudio = 0;
       cmxfParserModule.GetAudioFrameData(i,
            audioDataBuffer,
            audioDataLength,
```

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```
m uPlaintextOffsetAudio,
        m uSourceLengthAudio);
    ret = TransferAudio_PT(pcmDec, audioDataBuffer, audioDataLength);
    if (ret)
        exit(0);
}
if (ret == MMRC_Ok)
    playctrl.run();
    for (int i = 0; i < vidoeFrameSum; i++)</pre>
        unsigned int m_uPlaintextOffsetLeft = 0;
        unsigned int m_uSourceLengthLeft = 0;
        unsigned int m uPlaintextOffsetRight = 0;
        unsigned int m_uSourceLengthRight = 0;
        cmxfParserModule.Get3DFrameData(i,
            videoDataBufferLeft,
            videoDataLengthLeft,
            m_uPlaintextOffsetLeft
           m uSourceLengthLeft,
            videoDataBufferRight,
            videoDataLengthRight,
            m uPlaintextOffsetRight,
            m_uSourceLengthRight);
        ret = TransferVideo_PT(j2kdecLeft,
            videoDataBufferLeft,
            videoDataLengthLeft);
        if (ret)
            exit(0);
        ret = TransferVideo_PT(j2kdecRight,
            videoDataBufferRight,
            videoDataLengthRight);
        if (ret)
            exit(0);
```

Here we get double frames from .mxf file,so there must be difference between the left eye image and the right (

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```
unsigned int m uPlaintextOffsetAudio = 0;
        unsigned int m_uSourceLengthAudio = 0;
        cmxfParserModule.GetAudioFrameData(i,
            audioDataBuffer,
            audioDataLength,
            m uPlaintextOffsetAudio,
            m_uSourceLengthAudio);
        ret = TransferAudio_PT(pcmDec, audioDataBuffer, audioDataLength);
        if (ret)
            exit(0);
    j2kdecLeft.setEndOfStream();
    j2kdecRight.setEndOfStream();
    /// XLQ:
   pcmDec.setEndOfStream();
    /// XLQ
}
if (ret != MMRC Ok)
    //printf("picture transfer failed (%s)\n",filename);
    printf("picture transfer failed\n");
playctrl.waitForEndOfStream();
printf("End of stream reached\n");
if(NULL != audioDataBuffer)
    delete[] audioDataBuffer;
    audioDataBuffer = NULL;
    audioDataLength = 0;
}
if(NULL != videoDataBufferLeft)
    delete[] videoDataBufferLeft;
   videoDataBufferLeft = NULL;
   videoDataLengthLeft = 0;
}
```

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```
if(NULL != videoDataBufferRight)
{
    delete[] videoDataBufferRight;
    videoDataBufferRight = NULL;
    videoDataLengthRight = 0;
}

//if(NULL != data)

//{
    // delete[] data;
    // data = NULL;
    // dataSize = 0;
    //}

return 0;
}

#else
#endif
```

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