1. OpenCL 설치

- OpenCL 헤더

sudo apt-get install opencl-headers

2. 필요 패키지 설치

sudo apt-get install build-essential git unzip wget cmake libgtk2.0-dev pkg-config yasm

sudo apt-get install libjpeg-dev libtiff5-dev libpng-dev

sudo apt-get install ffmpeg libavcodec-dev libavformat-dev libswscale-dev libxvidcore-dev libx264-dev libxine2-dev

sudo apt-get install libgtk-3-dev

sudo apt-get install mesa-utils libgl1-mesa-dri libgtkgl2.0-dev libgtkglext1-dev

sudo apt-get install libatals-base-dev gfortran libeigen3-dev

3. FFMPEG 설치

wget https://ffmpeg.org/releases/ffmpeg-snapshot.tar.bz2 -O ffmpeg-snapshot.tar.bz2

mkdir libffmpeg

tar -xvf ffmpeg-snapshot.tar.bz2 -C libffmpeg --strip-components=1

rm ffmpeg-snapshot.tar.bz2

cd libffmpeg

./configure --enable-shared –disable-doc

sudo make

sudo make install

4. OpenCV 4.4 설치

· **opencv 및 추가 모듈 소스 파일 다운로드**

mkdir opencv

cd opencv

wget –O opencv.zip https://github.com/opencv/opencv/archive/4.4.0.zip

unzip opencv.zip

wget –O opencv_contrib.zip https://github.com/opencv/opencv_contrib/archive/4.4.0.zip

unzip opencv_contrib.zip

● **소스 빌드**

cd opencv-4.4.0

mkdir build

cd build

cmake -D CMAKE_BUILD_TYPE=RELEASE ₩

-D CMAKE_C_COMPILER=/usr/bin/gcc ₩

-D CMAKE_INSTALL_PREFIX=/usr/local ₩

-D INSTALL_PYTHON_EXAMPLES=OFF ₩

-D INSTALL_C_EXAMPLES=OFF ₩

-D BUILD_DOCS=OFF ₩

-D BUILD_PERF_TESTS=OFF ₩

-D BUILD_TESTS=OFF ₩

-D BUILD_PACKAGE=OFF ₩

-D BUILD_EXAMPLES=OFF ₩

-D WITH_TBB=ON ₩

-D ENABLE_FAST_MATH=1 ₩

-D CUDA_FAST_MATH=1 ₩

-D WITH_IPP=OFF ₩

-D WITH_V4L=OFF ₩

-D WITH_1394=OFF ₩

-D WITH_GTK=ON ₩

-D WITH_QT=OFF ₩

-D WITH_OPENGL=ON ₩

-D WITH_EIGEN=ON ₩

-D WITH_FFMPEG=ON ₩

-D BUILD_JAVA=OFF ₩

-D OPENCV_GENERATE_PKGCONFIG=ON ₩

-D OPENCV_ENABLE_NONFREE=ON ₩

-D OPENCV_EXTRA_MODULES_PATH=../../opencv_contrib-4.4.0/modules ..

❖ 주의: 결과에서 아래 그림과 같이 FFMPEG 지원을 반드시 확인해야한다.

```
--    Video I/O:
--      FFMPEG:                     YES
--        avcodec:                  YES (58.54.100)
--        avformat:                 YES (58.29.100)
--        avutil:                   YES (56.31.100)
--        swscale:                  YES (5.5.100)
--        avresample:               NO
```

time make –j$(nproc)

sudo make install

cat /etc/ld.so.conf.d/*

결과에 /usr/local/lib를 포함하는지 확인, 없다면 추가해준다.

sudo ldconfig

5. Vivante Player git clone

git clone https://github.com/EThe0n/Vivante.git

6. Make

cd player

make

7. 실행

./player ../video/<video name>