OPENVINO
Quick Installation Guide
## REVISION HISTORY

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<td>2019/01/09</td>
<td>Initial Version</td>
<td>Junying Lai</td>
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1. OPENVINO Install

#1 Download OPENVINO: https://software.intel.com/en-us/openvino-toolkit/choose-download/free-download-linux

Get the Software
Your license includes the full version of the product. To access the toolkit:

1. Make sure your system meets the minimum requirements listed on this page.
2. Complete the registration form.
3. Download the product.

Register & Download

#2 Extract OPENVINO on Downloads
#3 Type: cd ~/Downloads/l_openvino_toolkit_p_2018.5.445/

#4 Type: sudo -E ./install_cv_sdk_dependencies.sh

This script installs the following OpenVINO 3rd-party dependencies:
1. FFmpeg and GStreamer libraries required for OpenCV and Inference Engine
2. libusb library required for Myriad plugin for Inference Engine
3. build dependencies for OpenVINO samples

#5 Type: sudo ./install_GUI.sh
#6 Accept license agreement and click Next

#7 click Next
#8 click install

#9 Finish install
2. Build Sample

#1 Type: source /opt/intel/computer_vision_sdk/bin/setupvars.sh

```bash
$ source /opt/intel/computer_vision_sdk/bin/setupvars.sh
```

#2 Type: cd /opt/intel/computer_vision_sdk/deployment_tools/model_optimizer/install_prerequisites

```bash
$ cd /opt/intel/computer_vision_sdk/deployment_tools/model_optimizer/install_prerequisites
```

#3 Type: sudo ./install_prerequisites.sh

```bash
$ sudo ./install_prerequisites.sh
```

#4 Type: cd /opt/intel/computer_vision_sdk/deployment_tools/demo

```bash
$ cd /opt/intel/computer_vision_sdk/deployment_tools/demo
```

#5 Type: ./demo_squeezenet_download_convert_run.sh

```bash
$ ./demo_squeezenet_download_convert_run.sh
target_precision = FP32
```

#6 Type: ./demo_security_barrier_camera.sh
Type: cd ~/inference_engine_samples_build/intel64/Release/
3. Run demo face detection by use MYRIAD

#1 Type: cd ~/inference_engine_samples_build/intel64/Release/
#2 Type: sudo su
#3 Type: source /opt/intel/computer_vision_sdk/bin/setupvars.sh
#4 Type: ./interactive_face_detection_demo -i "cam" -m
 /opt/intel/computer_vision_sdk/deployment_tools/intel_models/face-detection-adas-0001/FP16/face-detection-adas-0001.xml -d MYRIAD

4. Run demo face detection by use CPU

#1 Type: cd ~/inference_engine_samples_build/intel64/Release/
#2 Type: sudo su
#3 Type: source /opt/intel/computer_vision_sdk/bin/setupvars.sh
#4 Type: ./interactive_face_detection_demo -i "cam" -m
 /opt/intel/computer_vision_sdk/deployment_tools/intel_models/face-detection-adas-0001/FP16/face-detection-adas-0001.xml -d CPU

5. Run demo face detection by use GPU

#1 Type: cd ~/inference_engine_samples_build/intel64/Release/
#2 Type: sudo su

#3 Type: source /opt/intel/computer_vision_sdk/bin/setupvars.sh

#4 Type: ./interactive_face_detection_demo -i "cam" -m /opt/intel/computer_vision_sdk/deployment_tools/intel_models/face-detection-adas-0001/FP16/face-detection-adas-0001.xml -d GPU

6. Run demo face detection by use HDDL

***#1~#3 Just do it once***

#1 Type: sudo gedit /opt/intel/computer_vision_sdk/inference_engine/external/hddl/config/hddl_autoboot.config

#2 edit total_device_num, according to your myriadx device number to edit

#3 Type: reboot

#4 Type: cd ~/inference_engine_samples_build/intel64/Release/
7. Build Reset

#1 Type: cd /opt/intel/computer_vision_sdk/inference_engine/external/hddl/hddl-bsl/

#2 Type: sudo apt-get install libudev1
#3 Type: sudo apt-get install libudev-dev libjson-c-dev

#4 Type: sudo su

#6 Type: mkdir build

#7 Type: cd build

#8 Type: make -j

#9 Type: make install
8. Run Reset

#1 Type: cd

#2 Type: sudo ./bsl_reset -i 224

*** 11100XXX : XXX is device 0-8 , if device 0 , you should transform (11100000)2 to (224)10

[sudo] password for a:
HDDL BSL configure file is not found or load failed, scanning automatically
Reset device: 224
Success