

Lenovo B71: INSTALL UBUNTU, ROS NOETIC AND ASTRA_CAMERA

Ubuntu 22.04:

ROS Noetic is stated to be the last ROS 1 release, and officially will not support anything beyond Ubuntu Focal (or 20.04).

Ubuntu 20.04:

<http://wiki.ros.org/noetic/Installation/Ubuntu>

ASTRA_CAMERA

http://wiki.ros.org/astra_camera

Issues:

1. Install dependencies:

 Unable to locate package ros-noetic-libuvc:

 sudo apt install libuvc-**dev**
2. roslaunch astra_camera astra.launch

 Resource not found: rgbd_launch ...

 sudo apt install ros-noetic-rgbd-launch

ASTRA SDK 2.1 – BUILD

Issues:

1. .../libastra_core.so: error adding symbols: file in wrong format:

 This is the only version that works:
 AstraSDK-v2.1.3-94bca0f52e-20210608T062039Z-Ubuntu18.04-x86_64

```
export ASTRA_SDK=/home/lada/Desktop/AstraSDK
export ASTRA_ROOT=/home/lada/Desktop/AstraSDK
export ASTRA_SDK_INCLUDE=/home/lada/Desktop/AstraSDK/include
export ASTRA_SDK_LIB=/home/lada/Desktop/AstraSDK/lib
```

OPENNI

```
export OPENNI2_INCLUDE=/home/lada/Desktop/OpenNI_2.3.0.66/Linux/OpenNI-Linux-x64-2.3.0.66/Include
```

```
export OPENNI2_REDIST=/home/lada/Desktop/OpenNI_2.3.0.66/Linux/OpenNI-Linux-x64-2.3.0.66/Redist
```

ASTRA_BODY_TRACKER

https://github.com/shinselrobots/astra_body_tracker

```
export ASTRA_INCLUDE_DIR=/home/lada/Desktop/AstraSDK-v2.1.3-94bca0f52e-20210608T062039Z-Ubuntu18.04-x86_64/include
```

PCL_OBJECT_DETECTION

https://github.com/shinselrobots/pcl_object_detecton

```
sudo apt-get install ros-noetic-tf2-sensor-msgs
```

BUILD (catkin_make) OK:

```
src:      CMakeLists.txt -> /opt/ros/noetic/share/catkin/cmake/toplevel.cmake
          pcl_object_detecton
          pointing_gesture
          ros_astra_camera
          urdf_tutorial
```