

RealSense Camera Package Compatibility

Compatibility Issue

The following packages/libraries related to Intel RealSense Depth Camera are **NOT compatible** with ARM architecture based Linux:

- librealsense2-dkms
- librealsense2-utils
- pyrealsense2

When trying to install these packages/libraries, ARM architecture based Ubuntu (Virtual Machine) will return errors since there are no corresponding builds.

```
jackson@ubuntu:~$ sudo apt-get install librealsense2-dkms
[sudo] password for jackson:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package librealsense2-dkms
jackson@ubuntu:~$
```

```
jackson@ubuntu:~$ sudo apt-get install librealsense2-utils
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package librealsense2-utils
jackson@ubuntu:~$
```

```
jackson@ubuntu:~$ pip install pyrealsense2
Defaulting to user installation because normal site-packages is not writeable
ERROR: Could not find a version that satisfies the requirement pyrealsense2 (from
  versions: none)
ERROR: No matching distribution found for pyrealsense2
jackson@ubuntu:~$
```

Solution

The easiest approach would be switching to an x86 architecture based Linux, either it's a virtual machine or a compatible device with an x86 version of Ubuntu installed.

An alternative is trying to build those packages locally with source code pulled from official repositories. But definitely, this is expected to be much more challenging.

```
jackson@Jackson-Parallels-Virtual-Platform:~$ apt list | grep realSense
WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

librealsense2-dbg/jammy 2.54.2-0-realSense.10773 amd64
librealsense2-dev/jammy 2.54.2-0-realSense.10773 amd64
librealsense2-dkms/jammy,now 1.3.24-0ubuntu1 all [installed]
librealsense2-gl-dbg/jammy 2.54.2-0-realSense.10773 amd64
librealsense2-gl-dev/jammy 2.54.2-0-realSense.10773 amd64
librealsense2-gui/jammy,now 2.54.2-0-realSense.10773 amd64 [installed,automatic]
librealsense2-net-dbg/jammy 2.53.1-0-realSense0.0251 amd64
librealsense2-net-dev/jammy 2.53.1-0-realSense0.0251 amd64
librealsense2-net/jammy 2.53.1-0-realSense0.0251 amd64
librealsense2-udev-rules/jammy,now 2.54.2-0-realSense.10773 amd64 [installed,automatic]
librealsense2-utils/jammy,now 2.54.2-0-realSense.10773 amd64 [installed]
librealsense2/jammy,now 2.54.2-0-realSense.10773 amd64 [installed,automatic]
ros-humble-rs2-realsense-interface-dbg/jammy 1.6.4-1jammy.20230919.232647 amd64
ros-humble-rs2-realsense-interface/jammy 1.6.4-1jammy.20230919.232647 amd64
ros-humble-librealsense2-dbg/jammy 2.54.1-1jammy.20230623.023334 amd64
ros-humble-librealsense2/jammy 2.54.1-1jammy.20230623.023334 amd64
ros-humble-realsense2-camera-dbg/jammy 4.54.1-1jammy.20230919.225342 amd64
ros-humble-realsense2-camera-nsqs-dbg/jammy 4.54.1-1jammy.20230919.205229 amd64
ros-humble-realsense2-camera-nsqs/jammy 4.54.1-1jammy.20230919.205229 amd64
ros-humble-realsense2-camera/jammy 4.54.1-1jammy.20230919.225342 amd64
ros-humble-realsense2-description/jammy 4.54.1-1jammy.20230919.224217 amd64
ros-iron-librealsense2-dbg/jammy 2.54.1-2jammy.20230630.063349 amd64
ros-iron-librealsense2/jammy 2.54.1-2jammy.20230630.063349 amd64
ros-iron-realsense2-camera-dbg/jammy 4.54.1-2jammy.20230908.184037 amd64
ros-iron-realsense2-camera-nsqs-dbg/jammy 4.54.1-2jammy.20230908.172116 amd64
ros-iron-realsense2-camera-nsqs/jammy 4.54.1-2jammy.20230908.172116 amd64
ros-iron-realsense2-camera/jammy 4.54.1-2jammy.20230908.184037 amd64
ros-iron-realsense2-description/jammy 4.54.1-2jammy.20230908.173839 amd64
jackson@Jackson-Parallels-Virtual-Platform:~$
```

```
jackson@Jackson-Parallels-Virtual-Platform:~$ pip install pyrealsense2
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: pyrealsense2 in ./local/lib/python3.10/site-pack
  ages (2.54.2.5684)
jackson@Jackson-Parallels-Virtual-Platform:~$
```