

PROBLEMS ENCOUNTERING DURING INSTALLATION OF ESIM 2.4

Forked Repo Link :

<https://github.com/Shiva0krishna/eSim>

Error 1:

Package python3-distutils is not available, but is referred to by another package.

This may mean that the package is missing, has been obsoleted, or

is only available from another source

E: Package 'python3-distutils' has no installation candidate

Commented out the code for checking remaining code debugging.

```
# echo "Installing Distutils....."
# sudo apt-get install -y python3-distutils

# Install NgVeri Depedencies
echo "Installing Pip3....."
sudo apt install -y python3-pip

echo "Installing Watchdog....."
pip3 install watchdog

echo "Installing Hdlparse....."
pip3 install --upgrade https://github.com/hdl/pyhdlparser/tarball/master
```

ERROR 2: EXTERNALLY MANAGED ENVIRONMENT

While attempting to install the Watchdog package, the following error was encountered:

Installing Watchdog.....

error: externally-managed-environment

× This environment is externally managed

```
Installing Watchdog.....
```

```
error: externally-managed-environment
```

```
× This environment is externally managed
```

```
↳ To install Python packages system-wide, try apt install  
python3-xyz, where xyz is the package you are trying to  
install.
```

```
If you wish to install a non-Debian-packaged Python package,  
create a virtual environment using python3 -m venv path/to/venv.  
Then use path/to/venv/bin/python and path/to/venv/bin/pip. Make  
sure you have python3-full installed.
```

```
If you wish to install a non-Debian packaged Python application,  
it may be easiest to use pipx install xyz, which will manage a  
virtual environment for you. Make sure you have pipx installed.
```

```
See /usr/share/doc/python3.12/README.venv for more information.
```

ISSUE DESCRIPTION:

This error arises because Ubuntu restricts system-wide installations of Python packages to prevent conflicts with the operating system's package management. As a result, direct installations of non-Debian packaged Python applications are not allowed.

Solution: To resolve this issue, it is recommended to create and use a virtual environment, which isolates the Python environment for the installation of packages.

- Create a Virtual Environment:

```
python3 -m venv ~/eSim-env
```

- Activate the Virtual Environment:

```
source ~/eSim-env/bin/activate
```

Error 3: Virtual Environment Creation Failure

Upon attempting to create the virtual environment, the following error occurred:

vbnet

The virtual environment was not created successfully because ensurepip is not available. On Debian/Ubuntu systems, you need to install the python3-venv.

Issue Description: This error indicates that the `ensurepip` module, which is responsible for installing `pip` in a virtual environment, is not available. This situation typically occurs when the `python3-venv` package is not installed on the system.

Solution: To address this issue, the `python3-venv` package must be installed

1. Update Package List:

```
sudo apt update
```

2. Install the `python3-venv` Package:
-

```
sudo apt install python3-venv
```

3. Once the package is installed, retry creating the virtual environment:

```
python3 -m venv ~/eSim-env
```

After Setting Up the Virtual Environment

Once the virtual environment is successfully created and activated, proceed with the installation of the required packages:

1. Generate a **requirements.txt** File:

```
pip freeze > requirements.txt
```

2. Install Watchdog Package:

```
pip install watchdog
```

Error 4 :

E: The repository 'https://ppa.launchpadcontent.net/kicad/kicad-6.0-releases/ubuntu noble Release' does not have a Release file. how to solve this error

The error encountered indicates that the specified PPA (Personal Package Archive) for KiCad does not have a release file available for your version of Ubuntu (noble). This usually means that the PPA does not support your current version or that the PPA is outdated or misconfigured. Here's how to resolve this issue:

Steps to Fix the PPA Error

1. **Remove the Problematic PPA:** If the PPA is not needed, you can remove it to prevent update errors. Use the following command to remove it:

```
sudo add-apt-repository --remove ppa:kicad/kicad-6.0-releases
```

2. **Update the Package List:** After removing the PPA, update your package list to ensure you are not trying to retrieve information from the removed repository.

```
sudo apt update
```

3. **Install KiCad from the Official Repositories:** Instead of using the PPA, you can try installing KiCad from the official Ubuntu repositories:

```
sudo apt install kicad
```

4. **Search for Alternatives:** If you specifically need a version of KiCad not available in the official repositories, consider looking for alternative PPAs or downloading the software directly from the KiCad official website.
5. **Check for Release Compatibility:** If you need to use that specific PPA, ensure it supports your version of Ubuntu (noble). You may need to look for a newer or more compatible PPA. You can search for KiCad-related PPAs using:

```
sudo add-apt-repository ppa:kicad/kicad-6.0-releases
```