

```
iisr_dhai5g01@iisr-dhai5g01:~$ ls
chair.jpg Downloads      main    RGB2point test1.jpg      venv
Desktop  emvirt      Music  snap    test.jpg    video.py
docker_ws GPS         Pictures sonata  test_mjpeg.jpg  Videos
Documents image_capture.py Public  Templates velodyne_data.csv
iisr_dhai5g01@iisr-dhai5g01:~$ cd emvirt
iisr_dhai5g01@iisr-dhai5g01:~/emvirt$ ls
3d_recognizer gps_lidar_fuse.py      rgb2point_env without_gps.py
chair1.csv    gps_rcv_from_vlp16.py  runvnc.sh      zed-docker
chair2.csv    livox_gps_fuser.py     run_ZedX.sh
csv           moving_data            sender
extracted    moving_data_velodyne_with_gps.py sonata
iisr_dhai5g01@iisr-dhai5g01:~/emvirt$ sudo sh ./run_ZedX.sh
[sudo] password for iisr_dhai5g01:
Authorization required, but no authorization protocol specified
xhost: unable to open display ":1"
09/07/2025 12:28:18 x11vnc version: 0.9.16 lastmod: 2019-01-05 pid: 6414
09/07/2025 12:28:18 XOpenDisplay(":99") failed.
09/07/2025 12:28:18 Trying again with XAUTHLOCALHOSTNAME=localhost ...
```

```
09/07/2025 12:28:18 *****
09/07/2025 12:28:18 *** XOpenDisplay failed (:99)
```

```
*** x11vnc was unable to open the X DISPLAY: ":99", it cannot continue.
*** There may be "Xlib:" error messages above with details about the failure.
```

Some tips and guidelines:

\*\* An X server (the one you wish to view) must be running before x11vnc is started: x11vnc does not start the X server. (however, see the -create option if that is what you really want).

\*\* You must use -display <disp>, -OR- set and export your \$DISPLAY environment variable to refer to the display of the desired X server.

- Usually the display is simply ":0" (in fact x11vnc uses this if you forget to specify it), but in some multi-user situations it could be ":1", ":2", or even ":137". Ask your administrator or a guru if you are having difficulty determining what your X DISPLAY is.

\*\* Next, you need to have sufficient permissions (Xauthority) to connect to the X DISPLAY. Here are some Tips:

- Often, you just need to run x11vnc as the user logged into the X session. So make sure to be that user when you type x11vnc.

- Being root is usually not enough because the incorrect MIT-MAGIC-COOKIE file may be accessed. The cookie file contains the secret key that allows x11vnc to connect to the desired X DISPLAY.
- You can explicitly indicate which MIT-MAGIC-COOKIE file should be used by the -auth option, e.g.:  
`x11vnc -auth /home/someuser/.Xauthority -display :0`  
`x11vnc -auth /tmp/.gdmzndVIR -display :0`  
 you must have read permission for the auth file.  
 See also '-auth guess' and '-findauth' discussed below.

\*\* If NO ONE is logged into an X session yet, but there is a greeter login program like "gdm", "kdm", "xdm", or "dtlogin" running, you will need to find and use the raw display manager MIT-MAGIC-COOKIE file. Some examples for various display managers:

```
gdm:  -auth /var/gdm/:0.Xauth
      -auth /var/lib/gdm/:0.Xauth
kdm:  -auth /var/lib/kdm/A:0-crWk72
      -auth /var/run/xauth/A:0-crWk72
xdm:  -auth /var/lib/xdm/authdir/authfiles/A:0-XQvaJk
dtlogin: -auth /var/dt/A:0-UgaaXa
```

Sometimes the command "ps wwwaux | grep auth" can reveal the file location.

Starting with x11vnc 0.9.9 you can have it try to guess by using:

```
-auth guess
```

(see also the x11vnc -findauth option.)

Only root will have read permission for the file, and so x11vnc must be run as root (or copy it). The random characters in the filenames will of course change and the directory the cookie file resides in is system dependent.

See also: <http://www.karlrunge.com/x11vnc/faq.html>

X.Org X Server 1.21.1.4

X Protocol Version 11, Revision 0

Current Operating System: Linux iisr-dhai5g01 5.15.148-tegra #1 SMP PREEMPT Fri Jan 17 16:58:23 CST 2025 aarch64

Kernel command line: video=HDMI-A-1:1280x720@60

drm\_kms\_helper.edid\_firmware=HDMI-A-1:edid/EP-HDMI-RX\_1.edid

root=PARTUUID=7a4a7fc9-cfaa-45df-a9b2-dd0cab4da123 rw rootwait rootfstype=ext4

mminit\_loglevel=4 console=ttyTCU0,115200 firmware\_class.path=/etc/firmware fbcon=map:0

nospectre\_bhb video=efib:off console=tty0 net.ifnames=0 biosdevname=0  
bl\_prof\_dataptr=2031616@0x271E10000 bl\_prof\_ro\_ptr=65536@0x271E00000  
xorg-server 2:21.1.4-2ubuntu1.7~22.04.14 (For technical support please see  
<http://www.ubuntu.com/support>)

Current version of pixman: 0.40.0

Before reporting problems, check <http://wiki.x.org>  
to make sure that you have the latest version.

Markers: (--) probed, (\*\*) from config file, (==) default setting,

(++) from command line, (!!) notice, (II) informational,

(WW) warning, (EE) error, (NI) not implemented, (??) unknown.

(++) Log file: "/var/log/Xorg.99.log", Time: Wed Jul 9 12:28:18 2025

(++) Using config file: "/etc/X11/10-xorg-headless.conf"

(==) Using config directory: "/etc/X11/xorg.conf.d"

(==) Using system config directory "/usr/share/X11/xorg.conf.d"

[root@iisr-dhai5g01:/usr/local/zed# # Download Miniconda installer for Linux](#)

[wget https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-x86\\_64.sh](#)

[# Run the installer](#)

[bash Miniconda3-latest-Linux-x86\\_64.sh](#)

--2025-07-09 06:58:58--

[https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-x86\\_64.sh](https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-x86_64.sh)

Resolving repo.anaconda.com (repo.anaconda.com)... 104.16.191.158, 104.16.32.241,  
2606:4700:91b3:2c97:4aa7:0:6810:20f1

Connecting to repo.anaconda.com (repo.anaconda.com)[104.16.191.158]:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 159476510 (152M) [application/octet-stream]

Saving to: 'Miniconda3-latest-Linux-x86\_64.sh'

Miniconda3-latest-L 100%[=====>] 152.09M 26.7MB/s in 6.0s

2025-07-09 06:59:04 (25.4 MB/s) - 'Miniconda3-latest-Linux-x86\_64.sh' saved  
[159476510/159476510]

WARNING:

Your operating system appears not to be x86\_64, but you are trying to  
install a x86\_64 version of Miniconda3.

Are sure you want to continue the installation? [yes|no]

[no] >>> yes

Welcome to Miniconda3 py313\_25.5.1-0

In order to continue the installation process, please review the license  
agreement.

Please, press ENTER to continue

>>>

## MINICONDA END USER LICENSE AGREEMENT

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Do you accept the license terms? [yes|no]

>>>

Please answer 'yes' or 'no':

>>>

Please answer 'yes' or 'no':

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Please answer 'yes' or 'no':

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Please answer 'yes' or 'no':  
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Please answer 'yes' or 'no':  
>>> yes

Miniconda3 will now be installed into this location:  
/root/miniconda3

- Press ENTER to confirm the location
  - Press CTRL-C to abort the installation
  - Or specify a different location below
- Note: environment variables will NOT be expanded.

```
[/root/miniconda3] >>>
PREFIX=/root/miniconda3
Unpacking payload ...
Miniconda3-latest-Linux-x86_64.sh: line 333: /root/miniconda3/_conda: cannot execute binary
file: Exec format error
root@iisr-dhai5g01:/usr/local/zed# git clone
https://github.com/facebookresearch/sonata.git
bash: git: command not found
bash: https://github.com/facebookresearch/sonata.git: No such file or directory
root@iisr-dhai5g01:/usr/local/zed# sudo apt install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
git-man libcbor0.8 liberror-perl libfido2-1 openssh-client xauth
```

Suggested packages:

gettext-base git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui  
gitk gitweb git-cvs git-mediawiki git-svn keychain libpam-ssh monkeysphere  
ssh-askpass

The following NEW packages will be installed:

git git-man libcbor0.8 liberror-perl libfido2-1 openssh-client xauth

0 upgraded, 7 newly installed, 0 to remove and 84 not upgraded.

Need to get 5199 kB of archives.

After this operation, 23.9 MB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://ports.ubuntu.com/ubuntu-ports jammy/main arm64 libcbor0.8 arm64 0.8.0-2ubuntu1  
[24.3 kB]

Get:2 http://ports.ubuntu.com/ubuntu-ports jammy/main arm64 libfido2-1 arm64 1.10.0-1 [81.8  
kB]

Ign:3 http://ports.ubuntu.com/ubuntu-ports jammy-updates/main arm64 openssh-client arm64  
1:8.9p1-3ubuntu0.11

Get:4 http://ports.ubuntu.com/ubuntu-ports jammy/main arm64 xauth arm64 1:1.1-1build2 [26.8  
kB]

Get:5 http://ports.ubuntu.com/ubuntu-ports jammy/main arm64 liberror-perl all 0.17029-1 [26.5  
kB]

Get:6 http://ports.ubuntu.com/ubuntu-ports jammy-updates/main arm64 git-man all  
1:2.34.1-1ubuntu1.12 [955 kB]

Get:7 http://ports.ubuntu.com/ubuntu-ports jammy-updates/main arm64 git arm64  
1:2.34.1-1ubuntu1.12 [3224 kB]

Err:3 http://ports.ubuntu.com/ubuntu-ports jammy-updates/main arm64 openssh-client arm64  
1:8.9p1-3ubuntu0.11

404 Not Found [IP: 91.189.91.103 80]

Fetchd 4338 kB in 4s (1030 kB/s)

E: Failed to fetch

http://ports.ubuntu.com/ubuntu-ports/pool/main/o/openssh/openssh-client\_8.9p1-3ubuntu0.11\_a  
rm64.deb 404 Not Found [IP: 91.189.91.103 80]

E: Unable to fetch some archives, maybe run apt-get update or try with --fix-missing?

root@iisr-dhai5g01:/usr/local/zed# sudo apt update

Hit:1 http://ports.ubuntu.com/ubuntu-ports jammy InRelease

Get:2 http://ports.ubuntu.com/ubuntu-ports jammy-updates InRelease [128 kB]

Get:3 http://ports.ubuntu.com/ubuntu-ports jammy-backports InRelease [127 kB]

Get:4 http://ports.ubuntu.com/ubuntu-ports jammy-security InRelease [129 kB]

Get:5 http://ports.ubuntu.com/ubuntu-ports jammy-updates/universe arm64 Packages [1551 kB]

Get:6 http://ports.ubuntu.com/ubuntu-ports jammy-updates/main arm64 Packages [3106 kB]

Get:7 http://ports.ubuntu.com/ubuntu-ports jammy-updates/restricted arm64 Packages [4279  
kB]

Get:8 http://ports.ubuntu.com/ubuntu-ports jammy-updates/multiverse arm64 Packages [33.5  
kB]

Get:9 http://ports.ubuntu.com/ubuntu-ports jammy-backports/main arm64 Packages [112 kB]

Get:10 <http://ports.ubuntu.com/ubuntu-ports> jammy-backports/universe arm64 Packages [36.5 kB]

Get:11 <http://ports.ubuntu.com/ubuntu-ports> jammy-security/main arm64 Packages [2801 kB]

Get:12 <http://ports.ubuntu.com/ubuntu-ports> jammy-security/multiverse arm64 Packages [27.2 kB]

Get:13 <http://ports.ubuntu.com/ubuntu-ports> jammy-security/restricted arm64 Packages [4136 kB]

Get:14 <http://ports.ubuntu.com/ubuntu-ports> jammy-security/universe arm64 Packages [1256 kB]

Fetchd 17.7 MB in 10s (1852 kB/s)

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

130 packages can be upgraded. Run 'apt list --upgradable' to see them.

root@iisr-dhai5g01:/usr/local/zed# sudo apt upgrade

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

Calculating upgrade... Done

The following packages will be upgraded:

apt apt-transport-https base-files bash binutils binutils-aarch64-linux-gnu  
binutils-common bsdtails coreutils dirmngr distro-info-data dpkg e2fsprogs  
gnupg gnupg-l10n gnupg-utils gnupg2 gpg gpg-agent gpg-wks-client  
gpg-wks-server gpgconf gpgsm gpgv gstreamer1.0-alsa  
gstreamer1.0-plugins-base gstreamer1.0-plugins-good gstreamer1.0-tools  
libaom3 libapt-pkg6.0 libarchive-dev libarchive13 libbinutils libblkid1  
libc-bin libc-dev-bin libc6 libc6-dev libcap2 libcap2-bin libcom-err2  
libcryptsetup12 libctf-nobfd0 libctf0 libcurl3-gnutls libdevmapper1.02.1  
libdw1 libegl-mesa0 libelf1 libexpat1 libexpat1-dev libext2fs2 libfontconfig1  
libgbm1 libgl1-mesa-dri libglapi-mesa libglib2.0-0 libglx-mesa0 libgnutls30  
libgssapi-krb5-2 libgstreamer-gl1.0-0 libgstreamer-plugins-base1.0-0  
libgstreamer-plugins-good1.0-0 libgstreamer1.0-0 libharfbuzz0b libiniparser1  
libk5crypto3 libkrb5-3 libkrb5support0 libldap-2.5-0 libmount1 libmpg123-0  
libopenjp2-7 libpam-modules libpam-modules-bin libpam-runtime libpam-systemd  
libpam0g libperl5.34 libpython2.7 libpython2.7-minimal libpython2.7-stdlib  
libpython3.10 libpython3.10-dev libpython3.10-minimal libpython3.10-stdlib  
libseccomp2 libsmartcols1 libsndfile1 libsoup2.4-1 libsoup2.4-common  
libsqlite3-0 libssl2 libssh-4 libssh-gcrypt-4 libssl3 libsystemd0 libtasn1-6  
libudev1 libuuid1 libvpx7 libxml2 linux-libc-dev locales login logsave mount  
net-tools openssl passwd pci.ids perl perl-base perl-modules-5.34  
python3-pip python3-pkg-resources python3-setuptools python3.10  
python3.10-dev python3.10-minimal sudo systemd systemd-sysv udev util-linux  
vim vim-common vim-runtime wpasupplicant xxd

130 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.



Need to get 98.9 MB of archives.

After this operation, 147 kB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/libc6-dev/arm64/2.35-0ubuntu3.10> [1544 kB]

Get:2 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/libc-dev-bin/arm64/2.35-0ubuntu3.10> [19.6 kB]

Get:3 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/linux-libc-dev/arm64/5.15.0-143.153> [1281 kB]

Get:4 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/libc6/arm64/2.35-0ubuntu3.10> [2705 kB]

Get:5 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/base-files/arm64/12ubuntu4.7> [61.8 kB]

Get:6 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/bash/arm64/5.1-6ubuntu1.1> [762 kB]

Get:7 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/bsdutils/arm64/1:2.37.2-4ubuntu3.4> [84.5 kB]

Get:8 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/coreutils/arm64/8.32-4.1ubuntu1.2> [1398 kB]

Get:9 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/libcap2/arm64/1:2.44-1ubuntu0.22.04.2> [18.1 kB]

Get:10 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/libpam0g/arm64/1.4.0-11ubuntu2.6> [59.7 kB]

Get:11 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/libpam-modules-bin/arm64/1.4.0-11ubuntu2.6> [38.6 kB]

Get:12 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/libpam-modules/arm64/1.4.0-11ubuntu2.6> [279 kB]

Get:13 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/libpam-runtime/all/1.4.0-11ubuntu2.6> [40.2 kB]

Get:14 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/systemd-sysv/arm64/249.11-0ubuntu3.16> [10.5 kB]

Get:15 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/libpam-systemd/arm64/249.11-0ubuntu3.16> [205 kB]

Get:16 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/libsystemd0/arm64/249.11-0ubuntu3.16> [314 kB]

Get:17 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/systemd/arm64/249.11-0ubuntu3.16> [4423 kB]

Get:18 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/udev/arm64/249.11-0ubuntu3.16> [1541 kB]

Get:19 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/libudev1/arm64/249.11-0ubuntu3.16> [74.5 kB]

Get:20 <http://ports.ubuntu.com/ubuntu-ports/jammy-updates/main/arm64/libblkid1/arm64/2.37.2-4ubuntu3.4> [103 kB]

Get:21 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 login arm64  
1:4.8.1-2ubuntu2.2 [186 kB]  
Get:22 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 util-linux arm64  
2.37.2-4ubuntu3.4 [1059 kB]  
Get:23 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libdevmapper1.02.1  
arm64 2:1.02.175-2.1ubuntu5 [129 kB]  
Get:24 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libssl3 arm64  
3.0.2-0ubuntu1.19 [1773 kB]  
Get:25 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libuuid1 arm64  
2.37.2-4ubuntu3.4 [23.8 kB]  
Get:26 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libcryptsetup12 arm64  
2:2.4.3-1ubuntu1.3 [208 kB]  
Get:27 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libtasn1-6 arm64  
4.18.0-4ubuntu0.1 [43.1 kB]  
Get:28 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libgnutls30 arm64  
3.7.3-4ubuntu1.6 [927 kB]  
Get:29 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libmount1 arm64  
2.37.2-4ubuntu3.4 [120 kB]  
Get:30 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libseccomp2 arm64  
2.5.3-2ubuntu3~22.04.1 [47.9 kB]  
Get:31 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 mount arm64  
2.37.2-4ubuntu3.4 [113 kB]  
Get:32 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libapt-pkg6.0 arm64  
2.4.14 [872 kB]  
Get:33 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 dpkg arm64  
1.21.1ubuntu2.3 [1219 kB]  
Get:34 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libperl5.34 arm64  
5.34.0-3ubuntu1.4 [4709 kB]  
Get:35 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 perl arm64  
5.34.0-3ubuntu1.4 [232 kB]  
Get:36 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 perl-base arm64  
5.34.0-3ubuntu1.4 [1709 kB]  
Get:37 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 perl-modules-5.34 all  
5.34.0-3ubuntu1.4 [2977 kB]  
Get:38 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libc-bin arm64  
2.35-0ubuntu3.10 [600 kB]  
Get:39 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 gpg-wks-client arm64  
2.2.27-3ubuntu2.4 [61.4 kB]  
Get:40 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 dirmngr arm64  
2.2.27-3ubuntu2.4 [289 kB]  
Get:41 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 gpg-wks-server arm64  
2.2.27-3ubuntu2.4 [56.8 kB]  
Get:42 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 gnupg-utils arm64  
2.2.27-3ubuntu2.4 [304 kB]

Get:43 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 gpg-agent arm64 2.2.27-3ubuntu2.4 [204 kB]  
Get:44 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 gpg arm64 2.2.27-3ubuntu2.4 [507 kB]  
Get:45 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 gpgconf arm64 2.2.27-3ubuntu2.4 [92.9 kB]  
Get:46 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 gnupg-l10n all 2.2.27-3ubuntu2.4 [54.7 kB]  
Get:47 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 gnupg all 2.2.27-3ubuntu2.4 [315 kB]  
Get:48 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 gpgsm arm64 2.2.27-3ubuntu2.4 [192 kB]  
Get:49 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libsqlite3-0 arm64 3.37.2-2ubuntu0.4 [636 kB]  
Get:50 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libldap-2.5-0 arm64 2.5.19+dfsg-0ubuntu0.22.04.1 [181 kB]  
Get:51 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 gpgv arm64 2.2.27-3ubuntu2.4 [134 kB]  
Get:52 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 apt arm64 2.4.14 [1328 kB]  
Get:53 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 logsave arm64 1.46.5-2ubuntu1.2 [9918 B]  
Get:54 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libext2fs2 arm64 1.46.5-2ubuntu1.2 [211 kB]  
Get:55 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 e2fsprogs arm64 1.46.5-2ubuntu1.2 [587 kB]  
Get:56 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libexpat1-dev arm64 2.4.7-1ubuntu0.6 [130 kB]  
Get:57 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libexpat1 arm64 2.4.7-1ubuntu0.6 [77.8 kB]  
Get:58 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 python3.10-dev arm64 3.10.12-1~22.04.10 [508 kB]  
Get:59 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libpython3.10-dev arm64 3.10.12-1~22.04.10 [4666 kB]  
Get:60 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libpython3.10 arm64 3.10.12-1~22.04.10 [1885 kB]  
Get:61 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 python3.10 arm64 3.10.12-1~22.04.10 [508 kB]  
Get:62 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libpython3.10-stdlib arm64 3.10.12-1~22.04.10 [1846 kB]  
Get:63 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 python3.10-minimal arm64 3.10.12-1~22.04.10 [2260 kB]  
Get:64 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libpython3.10-minimal arm64 3.10.12-1~22.04.10 [812 kB]

Get:65 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libcom-err2 arm64  
1.46.5-2ubuntu1.2 [9108 B]  
Get:66 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libk5crypto3 arm64  
1.19.2-2ubuntu0.7 [91.8 kB]  
Get:67 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libkrb5support0 arm64  
1.19.2-2ubuntu0.7 [32.7 kB]  
Get:68 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libkrb5-3 arm64  
1.19.2-2ubuntu0.7 [357 kB]  
Get:69 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libgssapi-krb5-2 arm64  
1.19.2-2ubuntu0.7 [142 kB]  
Get:70 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libsmartcols1 arm64  
2.37.2-4ubuntu3.4 [49.5 kB]  
Get:71 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 passwd arm64  
1:4.8.1-2ubuntu2.2 [763 kB]  
Get:72 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libss2 arm64  
1.46.5-2ubuntu1.2 [11.9 kB]  
Get:73 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 distro-info-data all  
0.52ubuntu0.9 [5336 B]  
Get:74 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libcap2-bin arm64  
1:2.44-1ubuntu0.22.04.2 [25.5 kB]  
Get:75 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libdw1 arm64  
0.186-1ubuntu0.1 [246 kB]  
Get:76 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libelf1 arm64  
0.186-1ubuntu0.1 [50.8 kB]  
Get:77 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libglib2.0-0 arm64  
2.72.4-0ubuntu2.5 [1435 kB]  
Get:78 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libxml2 arm64  
2.9.13+dfsg-1ubuntu0.7 [729 kB]  
Get:79 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 locales all  
2.35-0ubuntu3.10 [4248 kB]  
Get:80 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 openssl arm64  
3.0.2-0ubuntu1.19 [1165 kB]  
Get:81 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 python3-setuptools all  
59.6.0-1.2ubuntu0.22.04.3 [340 kB]  
Get:82 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64  
python3-pkg-resources all 59.6.0-1.2ubuntu0.22.04.3 [133 kB]  
Get:83 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 sudo arm64  
1.9.9-1ubuntu2.5 [807 kB]  
Get:84 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 vim arm64  
2:8.2.3995-1ubuntu2.24 [1664 kB]  
Get:85 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 vim-runtime all  
2:8.2.3995-1ubuntu2.24 [6833 kB]  
Get:86 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 xxd arm64  
2:8.2.3995-1ubuntu2.24 [50.9 kB]

Get:87 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 vim-common all 2:8.2.3995-1ubuntu2.24 [81.5 kB]  
Get:88 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 pci.ids all 0.0~2022.01.22-1ubuntu0.1 [251 kB]  
Get:89 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/universe arm64 apt-transport-https all 2.4.14 [1510 B]  
Get:90 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libctf0 arm64 2.38-4ubuntu2.8 [103 kB]  
Get:91 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libctf-nobfd0 arm64 2.38-4ubuntu2.8 [108 kB]  
Get:92 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 binutils-aarch64-linux-gnu arm64 2.38-4ubuntu2.8 [3230 kB]  
Get:93 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libbinutils arm64 2.38-4ubuntu2.8 [825 kB]  
Get:94 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 binutils arm64 2.38-4ubuntu2.8 [3158 B]  
Get:95 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 binutils-common arm64 2.38-4ubuntu2.8 [223 kB]  
Get:96 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libgstreamer1.0-0 arm64 1.20.3-0ubuntu1.1 [930 kB]  
Get:97 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libgstreamer-plugins-base1.0-0 arm64 1.20.1-1ubuntu0.4 [794 kB]  
Get:98 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 gstreamer1.0-alsa arm64 1.20.1-1ubuntu0.4 [39.5 kB]  
Get:99 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 gstreamer1.0-plugins-base arm64 1.20.1-1ubuntu0.4 [657 kB]  
Get:100 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 gstreamer1.0-plugins-good arm64 1.20.3-0ubuntu1.3 [1874 kB]  
Get:101 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libgstreamer-plugins-good1.0-0 arm64 1.20.3-0ubuntu1.3 [28.8 kB]  
Get:102 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libmpg123-0 arm64 1.29.3-1ubuntu0.1 [170 kB]  
Get:103 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libvpx7 arm64 1.11.0-2ubuntu2.4 [1042 kB]  
Get:104 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libsoup2.4-common all 2.74.2-3ubuntu0.5 [4660 B]  
Get:105 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libsoup2.4-1 arm64 2.74.2-3ubuntu0.5 [281 kB]  
Get:106 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 gstreamer1.0-tools arm64 1.20.3-0ubuntu1.1 [65.2 kB]  
Get:107 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/universe arm64 libaom3 arm64 3.3.0-1ubuntu0.1 [1415 kB]  
Get:108 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libarchive-dev arm64 3.6.0-1ubuntu1.5 [587 kB]

Get:109 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libarchive13 arm64 3.6.0-1ubuntu1.5 [367 kB]  
Get:110 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libssh-4 arm64 0.9.6-2ubuntu0.22.04.4 [185 kB]  
Get:111 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libcurl3-gnutls arm64 7.81.0-1ubuntu1.20 [279 kB]  
Get:112 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libegl-mesa0 arm64 23.2.1-1ubuntu3.1~22.04.3 [117 kB]  
Get:113 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libgbm1 arm64 23.2.1-1ubuntu3.1~22.04.3 [33.7 kB]  
Get:114 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libgl1-mesa-dri arm64 23.2.1-1ubuntu3.1~22.04.3 [8091 kB]  
Get:115 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libglx-mesa0 arm64 23.2.1-1ubuntu3.1~22.04.3 [165 kB]  
Get:116 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libglapi-mesa arm64 23.2.1-1ubuntu3.1~22.04.3 [52.2 kB]  
Get:117 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libfreetype6 arm64 2.11.1+dfsg-1ubuntu0.3 [382 kB]  
Get:118 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libgstreamer-gl1.0-0 arm64 1.20.1-1ubuntu0.4 [192 kB]  
Get:119 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libharfbuzz0b arm64 2.7.4-1ubuntu3.2 [353 kB]  
Get:120 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libiniparser1 arm64 4.1-4ubuntu4.2 [11.2 kB]  
Get:121 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/universe arm64 libpython2.7 arm64 2.7.18-13ubuntu1.5 [1129 kB]  
Get:122 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/universe arm64 libpython2.7-stdlib arm64 2.7.18-13ubuntu1.5 [1984 kB]  
Get:123 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/universe arm64 libpython2.7-minimal arm64 2.7.18-13ubuntu1.5 [347 kB]  
Get:124 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libsndfile1 arm64 1.0.31-2ubuntu0.2 [197 kB]  
Get:125 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libssh-gcrypt-4 arm64 0.9.6-2ubuntu0.22.04.4 [224 kB]  
Get:126 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 net-tools arm64 1.60+git20181103.0eebece-1ubuntu5.4 [208 kB]  
Get:127 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/universe arm64 python3-pip all 22.0.2+dfsg-1ubuntu0.6 [1306 kB]  
Get:128 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 wpasupplicant arm64 2:2.10-6ubuntu2.2 [1452 kB]  
Get:129 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/universe arm64 gnupg2 all 2.2.27-3ubuntu2.4 [5544 B]  
Get:130 <http://ports.ubuntu.com/ubuntu-ports> jammy-updates/main arm64 libopenjp2-7 arm64 2.4.0-6ubuntu0.3 [155 kB]

Fetches 98.9 MB in 27s (3678 kB/s)  
debconf: delaying package configuration, since apt-utils is not installed  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../libc6-dev\_2.35-0ubuntu3.10\_arm64.deb ...  
Unpacking libc6-dev:arm64 (2.35-0ubuntu3.10) over (2.35-0ubuntu3.8) ...  
Preparing to unpack .../libc-dev-bin\_2.35-0ubuntu3.10\_arm64.deb ...  
Unpacking libc-dev-bin (2.35-0ubuntu3.10) over (2.35-0ubuntu3.8) ...  
Preparing to unpack .../linux-libc-dev\_5.15.0-143.153\_arm64.deb ...  
Unpacking linux-libc-dev:arm64 (5.15.0-143.153) over (5.15.0-124.134) ...  
Preparing to unpack .../libc6\_2.35-0ubuntu3.10\_arm64.deb ...  
debconf: unable to initialize frontend: Dialog  
debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 78.)  
debconf: falling back to frontend: Readline  
Unpacking libc6:arm64 (2.35-0ubuntu3.10) over (2.35-0ubuntu3.8) ...  
Setting up libc6:arm64 (2.35-0ubuntu3.10) ...  
debconf: unable to initialize frontend: Dialog  
debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 78.)  
debconf: falling back to frontend: Readline  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../base-files\_12ubuntu4.7\_arm64.deb ...  
Unpacking base-files (12ubuntu4.7) over (12ubuntu4.5) ...  
Setting up base-files (12ubuntu4.7) ...  
Installing new version of config file /etc/issue ...  
Installing new version of config file /etc/issue.net ...  
Installing new version of config file /etc/lsb-release ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../bash\_5.1-6ubuntu1.1\_arm64.deb ...  
Unpacking bash (5.1-6ubuntu1.1) over (5.1-6ubuntu1) ...  
Setting up bash (5.1-6ubuntu1.1) ...  
update-alternatives: error: alternative path /usr/share/man/man7/bash-builtins.7.gz doesn't exist  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../bsdutils\_1%3a2.37.2-4ubuntu3.4\_arm64.deb ...  
Unpacking bsdutils (1:2.37.2-4ubuntu3.4) over (1:2.37.2-4ubuntu3) ...  
Setting up bsdutils (1:2.37.2-4ubuntu3.4) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../coreutils\_8.32-4.1ubuntu1.2\_arm64.deb ...  
Unpacking coreutils (8.32-4.1ubuntu1.2) over (8.32-4.1ubuntu1.1) ...  
Setting up coreutils (8.32-4.1ubuntu1.2) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../libcap2\_1%3a2.44-1ubuntu0.22.04.2\_arm64.deb ...  
Unpacking libcap2:arm64 (1:2.44-1ubuntu0.22.04.2) over (1:2.44-1ubuntu0.22.04.1)

...

Setting up libcap2:arm64 (1:2.44-1ubuntu0.22.04.2) ...

(Reading database ... 52471 files and directories currently installed.)

Preparing to unpack .../libpam0g\_1.4.0-11ubuntu2.6\_arm64.deb ...

Unpacking libpam0g:arm64 (1.4.0-11ubuntu2.6) over (1.4.0-11ubuntu2.4) ...

Setting up libpam0g:arm64 (1.4.0-11ubuntu2.6) ...

debconf: unable to initialize frontend: Dialog

debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 78.)

debconf: falling back to frontend: Readline

(Reading database ... 52471 files and directories currently installed.)

Preparing to unpack .../libpam-modules-bin\_1.4.0-11ubuntu2.6\_arm64.deb ...

Unpacking libpam-modules-bin (1.4.0-11ubuntu2.6) over (1.4.0-11ubuntu2.4) ...

Setting up libpam-modules-bin (1.4.0-11ubuntu2.6) ...

(Reading database ... 52471 files and directories currently installed.)

Preparing to unpack .../libpam-modules\_1.4.0-11ubuntu2.6\_arm64.deb ...

debconf: unable to initialize frontend: Dialog

debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 78.)

debconf: falling back to frontend: Readline

Unpacking libpam-modules:arm64 (1.4.0-11ubuntu2.6) over (1.4.0-11ubuntu2.4) ...

Setting up libpam-modules:arm64 (1.4.0-11ubuntu2.6) ...

Installing new version of config file /etc/security/namespace.init ...

(Reading database ... 52471 files and directories currently installed.)

Preparing to unpack .../libpam-runtime\_1.4.0-11ubuntu2.6\_all.deb ...

Unpacking libpam-runtime (1.4.0-11ubuntu2.6) over (1.4.0-11ubuntu2.4) ...

Setting up libpam-runtime (1.4.0-11ubuntu2.6) ...

debconf: unable to initialize frontend: Dialog

debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 78.)

debconf: falling back to frontend: Readline

(Reading database ... 52471 files and directories currently installed.)

Preparing to unpack .../systemd-sysv\_249.11-0ubuntu3.16\_arm64.deb ...

Unpacking systemd-sysv (249.11-0ubuntu3.16) over (249.11-0ubuntu3.12) ...

Preparing to unpack .../libpam-systemd\_249.11-0ubuntu3.16\_arm64.deb ...

Unpacking libpam-systemd:arm64 (249.11-0ubuntu3.16) over (249.11-0ubuntu3.12) ..

.

Preparing to unpack .../libsystemd0\_249.11-0ubuntu3.16\_arm64.deb ...

Unpacking libsystemd0:arm64 (249.11-0ubuntu3.16) over (249.11-0ubuntu3.12) ...

Setting up libsystemd0:arm64 (249.11-0ubuntu3.16) ...

(Reading database ... 52471 files and directories currently installed.)

Preparing to unpack .../systemd\_249.11-0ubuntu3.16\_arm64.deb ...

Unpacking systemd (249.11-0ubuntu3.16) over (249.11-0ubuntu3.12) ...

Preparing to unpack .../udev\_249.11-0ubuntu3.16\_arm64.deb ...



Unpacking udev (249.11-0ubuntu3.16) over (249.11-0ubuntu3.12) ...  
Preparing to unpack .../libudev1\_249.11-0ubuntu3.16\_arm64.deb ...  
Unpacking libudev1:arm64 (249.11-0ubuntu3.16) over (249.11-0ubuntu3.12) ...  
Setting up libudev1:arm64 (249.11-0ubuntu3.16) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../libblkid1\_2.37.2-4ubuntu3.4\_arm64.deb ...  
Unpacking libblkid1:arm64 (2.37.2-4ubuntu3.4) over (2.37.2-4ubuntu3) ...  
Setting up libblkid1:arm64 (2.37.2-4ubuntu3.4) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../login\_1%3a4.8.1-2ubuntu2.2\_arm64.deb ...  
Unpacking login (1:4.8.1-2ubuntu2.2) over (1:4.8.1-2ubuntu2.1) ...  
Setting up login (1:4.8.1-2ubuntu2.2) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../util-linux\_2.37.2-4ubuntu3.4\_arm64.deb ...  
Unpacking util-linux (2.37.2-4ubuntu3.4) over (2.37.2-4ubuntu3) ...  
Setting up util-linux (2.37.2-4ubuntu3.4) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../libdevmapper1.02.1\_2%3a1.02.175-2.1ubuntu5\_arm64.deb ...  
Unpacking libdevmapper1.02.1:arm64 (2:1.02.175-2.1ubuntu5) over (2:1.02.175-2.1ubuntu4) ...  
Preparing to unpack .../libssl3\_3.0.2-0ubuntu1.19\_arm64.deb ...  
Unpacking libssl3:arm64 (3.0.2-0ubuntu1.19) over (3.0.2-0ubuntu1.14) ...  
Setting up libssl3:arm64 (3.0.2-0ubuntu1.19) ...  
debconf: unable to initialize frontend: Dialog  
debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 78.)  
debconf: falling back to frontend: Readline  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../libuuid1\_2.37.2-4ubuntu3.4\_arm64.deb ...  
Unpacking libuuid1:arm64 (2.37.2-4ubuntu3.4) over (2.37.2-4ubuntu3) ...  
Setting up libuuid1:arm64 (2.37.2-4ubuntu3.4) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../libcryptsetup12\_2%3a2.4.3-1ubuntu1.3\_arm64.deb ...  
Unpacking libcryptsetup12:arm64 (2:2.4.3-1ubuntu1.3) over (2:2.4.3-1ubuntu1.2) .  
..  
Preparing to unpack .../libtasn1-6\_4.18.0-4ubuntu0.1\_arm64.deb ...  
Unpacking libtasn1-6:arm64 (4.18.0-4ubuntu0.1) over (4.18.0-4build1) ...  
Setting up libtasn1-6:arm64 (4.18.0-4ubuntu0.1) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../libgnutls30\_3.7.3-4ubuntu1.6\_arm64.deb ...  
Unpacking libgnutls30:arm64 (3.7.3-4ubuntu1.6) over (3.7.3-4ubuntu1.4) ...  
Setting up libgnutls30:arm64 (3.7.3-4ubuntu1.6) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../libmount1\_2.37.2-4ubuntu3.4\_arm64.deb ...

Unpacking libmount1:arm64 (2.37.2-4ubuntu3.4) over (2.37.2-4ubuntu3) ...  
Setting up libmount1:arm64 (2.37.2-4ubuntu3.4) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../libseccomp2\_2.5.3-2ubuntu3~22.04.1\_arm64.deb ...  
Unpacking libseccomp2:arm64 (2.5.3-2ubuntu3~22.04.1) over (2.5.3-2ubuntu2) ...  
Setting up libseccomp2:arm64 (2.5.3-2ubuntu3~22.04.1) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../mount\_2.37.2-4ubuntu3.4\_arm64.deb ...  
Unpacking mount (2.37.2-4ubuntu3.4) over (2.37.2-4ubuntu3) ...  
Preparing to unpack .../libapt-pkg6.0\_2.4.14\_arm64.deb ...  
Unpacking libapt-pkg6.0:arm64 (2.4.14) over (2.4.11) ...  
Setting up libapt-pkg6.0:arm64 (2.4.14) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../dpkg\_1.21.1ubuntu2.3\_arm64.deb ...  
Unpacking dpkg (1.21.1ubuntu2.3) over (1.21.1ubuntu2.2) ...  
Setting up dpkg (1.21.1ubuntu2.3) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../libperl5.34\_5.34.0-3ubuntu1.4\_arm64.deb ...  
Unpacking libperl5.34:arm64 (5.34.0-3ubuntu1.4) over (5.34.0-3ubuntu1.3) ...  
Preparing to unpack .../perl\_5.34.0-3ubuntu1.4\_arm64.deb ...  
Unpacking perl (5.34.0-3ubuntu1.4) over (5.34.0-3ubuntu1.3) ...  
Preparing to unpack .../perl-base\_5.34.0-3ubuntu1.4\_arm64.deb ...  
Unpacking perl-base (5.34.0-3ubuntu1.4) over (5.34.0-3ubuntu1.3) ...  
Setting up perl-base (5.34.0-3ubuntu1.4) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../perl-modules-5.34\_5.34.0-3ubuntu1.4\_all.deb ...  
Unpacking perl-modules-5.34 (5.34.0-3ubuntu1.4) over (5.34.0-3ubuntu1.3) ...  
Preparing to unpack .../libc-bin\_2.35-0ubuntu3.10\_arm64.deb ...  
Unpacking libc-bin (2.35-0ubuntu3.10) over (2.35-0ubuntu3.6) ...  
Setting up libc-bin (2.35-0ubuntu3.10) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../00-gpg-wks-client\_2.2.27-3ubuntu2.4\_arm64.deb ...  
Unpacking gpg-wks-client (2.2.27-3ubuntu2.4) over (2.2.27-3ubuntu2.1) ...  
Preparing to unpack .../01-dirmngr\_2.2.27-3ubuntu2.4\_arm64.deb ...  
Unpacking dirmngr (2.2.27-3ubuntu2.4) over (2.2.27-3ubuntu2.1) ...  
Preparing to unpack .../02-gpg-wks-server\_2.2.27-3ubuntu2.4\_arm64.deb ...  
Unpacking gpg-wks-server (2.2.27-3ubuntu2.4) over (2.2.27-3ubuntu2.1) ...  
Preparing to unpack .../03-gnupg-utils\_2.2.27-3ubuntu2.4\_arm64.deb ...  
Unpacking gnupg-utils (2.2.27-3ubuntu2.4) over (2.2.27-3ubuntu2.1) ...  
Preparing to unpack .../04-gpg-agent\_2.2.27-3ubuntu2.4\_arm64.deb ...  
Unpacking gpg-agent (2.2.27-3ubuntu2.4) over (2.2.27-3ubuntu2.1) ...  
Preparing to unpack .../05-gpg\_2.2.27-3ubuntu2.4\_arm64.deb ...  
Unpacking gpg (2.2.27-3ubuntu2.4) over (2.2.27-3ubuntu2.1) ...  
Preparing to unpack .../06-gpgconf\_2.2.27-3ubuntu2.4\_arm64.deb ...

Unpacking gpgconf (2.2.27-3ubuntu2.4) over (2.2.27-3ubuntu2.1) ...  
Preparing to unpack .../07-gnupg-l10n\_2.2.27-3ubuntu2.4\_all.deb ...  
Unpacking gnupg-l10n (2.2.27-3ubuntu2.4) over (2.2.27-3ubuntu2.1) ...  
Preparing to unpack .../08-gnupg\_2.2.27-3ubuntu2.4\_all.deb ...  
Unpacking gnupg (2.2.27-3ubuntu2.4) over (2.2.27-3ubuntu2.1) ...  
Preparing to unpack .../09-gpgsm\_2.2.27-3ubuntu2.4\_arm64.deb ...  
Unpacking gpgsm (2.2.27-3ubuntu2.4) over (2.2.27-3ubuntu2.1) ...  
Preparing to unpack .../10-libsqlite3-0\_3.37.2-2ubuntu0.4\_arm64.deb ...  
Unpacking libsqlite3-0:arm64 (3.37.2-2ubuntu0.4) over (3.37.2-2ubuntu0.3) ...  
Preparing to unpack .../11-libldap-2.5-0\_2.5.19+dfsg-0ubuntu0.22.04.1\_arm64.deb ...  
...  
Unpacking libldap-2.5-0:arm64 (2.5.19+dfsg-0ubuntu0.22.04.1) over (2.5.18+dfsg-0ubuntu0.22.04.2) ...  
Preparing to unpack .../12-gpgv\_2.2.27-3ubuntu2.4\_arm64.deb ...  
Unpacking gpgv (2.2.27-3ubuntu2.4) over (2.2.27-3ubuntu2.1) ...  
Setting up gpgv (2.2.27-3ubuntu2.4) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../archives/apt\_2.4.14\_arm64.deb ...  
Unpacking apt (2.4.14) over (2.4.11) ...  
Setting up apt (2.4.14) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../logsave\_1.46.5-2ubuntu1.2\_arm64.deb ...  
Unpacking logsave (1.46.5-2ubuntu1.2) over (1.46.5-2ubuntu1.1) ...  
Preparing to unpack .../libext2fs2\_1.46.5-2ubuntu1.2\_arm64.deb ...  
Unpacking libext2fs2:arm64 (1.46.5-2ubuntu1.2) over (1.46.5-2ubuntu1.1) ...  
Setting up libext2fs2:arm64 (1.46.5-2ubuntu1.2) ...  
(Reading database ... 52471 files and directories currently installed.)  
Preparing to unpack .../00-e2fsprogs\_1.46.5-2ubuntu1.2\_arm64.deb ...  
Unpacking e2fsprogs (1.46.5-2ubuntu1.2) over (1.46.5-2ubuntu1.1) ...  
Preparing to unpack .../01-libexpat1-dev\_2.4.7-1ubuntu0.6\_arm64.deb ...  
Unpacking libexpat1-dev:arm64 (2.4.7-1ubuntu0.6) over (2.4.7-1ubuntu0.4) ...  
Preparing to unpack .../02-libexpat1\_2.4.7-1ubuntu0.6\_arm64.deb ...  
Unpacking libexpat1:arm64 (2.4.7-1ubuntu0.6) over (2.4.7-1ubuntu0.4) ...  
Preparing to unpack .../03-python3.10-dev\_3.10.12-1~22.04.10\_arm64.deb ...  
Unpacking python3.10-dev (3.10.12-1~22.04.10) over (3.10.12-1~22.04.6) ...  
Preparing to unpack .../04-libpython3.10-dev\_3.10.12-1~22.04.10\_arm64.deb ...  
Unpacking libpython3.10-dev:arm64 (3.10.12-1~22.04.10) over (3.10.12-1~22.04.6) ...  
...  
Preparing to unpack .../05-libpython3.10\_3.10.12-1~22.04.10\_arm64.deb ...  
Unpacking libpython3.10:arm64 (3.10.12-1~22.04.10) over (3.10.12-1~22.04.6) ...  
Preparing to unpack .../06-python3.10\_3.10.12-1~22.04.10\_arm64.deb ...  
Unpacking python3.10 (3.10.12-1~22.04.10) over (3.10.12-1~22.04.6) ...  
Preparing to unpack .../07-libpython3.10-stdlib\_3.10.12-1~22.04.10\_arm64.deb ...  
Unpacking libpython3.10-stdlib:arm64 (3.10.12-1~22.04.10) over (3.10.12-1~22.04.6) ...

6) ...

Preparing to unpack .../08-python3.10-minimal\_3.10.12-1~22.04.10\_arm64.deb ...

Unpacking python3.10-minimal (3.10.12-1~22.04.10) over (3.10.12-1~22.04.6) ...

Preparing to unpack .../09-libpython3.10-minimal\_3.10.12-1~22.04.10\_arm64.deb ..

.

Unpacking libpython3.10-minimal:arm64 (3.10.12-1~22.04.10) over (3.10.12-1~22.04.6) ...

Preparing to unpack .../10-libcom-err2\_1.46.5-2ubuntu1.2\_arm64.deb ...

Unpacking libcom-err2:arm64 (1.46.5-2ubuntu1.2) over (1.46.5-2ubuntu1.1) ...

Setting up libcom-err2:arm64 (1.46.5-2ubuntu1.2) ...

(Reading database ... 52471 files and directories currently installed.)

Preparing to unpack .../libk5crypto3\_1.19.2-2ubuntu0.7\_arm64.deb ...

Unpacking libk5crypto3:arm64 (1.19.2-2ubuntu0.7) over (1.19.2-2ubuntu0.3) ...

Setting up libk5crypto3:arm64 (1.19.2-2ubuntu0.7) ...

(Reading database ... 52471 files and directories currently installed.)

Preparing to unpack .../libkrb5support0\_1.19.2-2ubuntu0.7\_arm64.deb ...

Unpacking libkrb5support0:arm64 (1.19.2-2ubuntu0.7) over (1.19.2-2ubuntu0.3) ...

Setting up libkrb5support0:arm64 (1.19.2-2ubuntu0.7) ...

(Reading database ... 52471 files and directories currently installed.)

Preparing to unpack .../libkrb5-3\_1.19.2-2ubuntu0.7\_arm64.deb ...

Unpacking libkrb5-3:arm64 (1.19.2-2ubuntu0.7) over (1.19.2-2ubuntu0.3) ...

Setting up libkrb5-3:arm64 (1.19.2-2ubuntu0.7) ...

(Reading database ... 52471 files and directories currently installed.)

Preparing to unpack .../libgssapi-krb5-2\_1.19.2-2ubuntu0.7\_arm64.deb ...

Unpacking libgssapi-krb5-2:arm64 (1.19.2-2ubuntu0.7) over (1.19.2-2ubuntu0.3) ..

.

Setting up libgssapi-krb5-2:arm64 (1.19.2-2ubuntu0.7) ...

(Reading database ... 52471 files and directories currently installed.)

Preparing to unpack .../libsmartcols1\_2.37.2-4ubuntu3.4\_arm64.deb ...

Unpacking libsmartcols1:arm64 (2.37.2-4ubuntu3.4) over (2.37.2-4ubuntu3) ...

Setting up libsmartcols1:arm64 (2.37.2-4ubuntu3.4) ...

(Reading database ... 52471 files and directories currently installed.)

Preparing to unpack .../passwd\_1%3a4.8.1-2ubuntu2.2\_arm64.deb ...

Unpacking passwd (1:4.8.1-2ubuntu2.2) over (1:4.8.1-2ubuntu2.1) ...

Setting up passwd (1:4.8.1-2ubuntu2.2) ...

(Reading database ... 52471 files and directories currently installed.)

Preparing to unpack .../00-libss2\_1.46.5-2ubuntu1.2\_arm64.deb ...

Unpacking libss2:arm64 (1.46.5-2ubuntu1.2) over (1.46.5-2ubuntu1.1) ...

Preparing to unpack .../01-distro-info-data\_0.52ubuntu0.9\_all.deb ...

Unpacking distro-info-data (0.52ubuntu0.9) over (0.52ubuntu0.8) ...

Preparing to unpack .../02-libcap2-bin\_1%3a2.44-1ubuntu0.22.04.2\_arm64.deb ...

Unpacking libcap2-bin (1:2.44-1ubuntu0.22.04.2) over (1:2.44-1ubuntu0.22.04.1) .

..

Preparing to unpack .../03-libdw1\_0.186-1ubuntu0.1\_arm64.deb ...

Unpacking libdw1:arm64 (0.186-1ubuntu0.1) over (0.186-1build1) ...  
Preparing to unpack .../04-libelf1\_0.186-1ubuntu0.1\_arm64.deb ...  
Unpacking libelf1:arm64 (0.186-1ubuntu0.1) over (0.186-1build1) ...  
Preparing to unpack .../05-libglib2.0-0\_2.72.4-0ubuntu2.5\_arm64.deb ...  
Unpacking libglib2.0-0:arm64 (2.72.4-0ubuntu2.5) over (2.72.4-0ubuntu2.3) ...  
Preparing to unpack .../06-libxml2\_2.9.13+dfsg-1ubuntu0.7\_arm64.deb ...  
Unpacking libxml2:arm64 (2.9.13+dfsg-1ubuntu0.7) over (2.9.13+dfsg-1ubuntu0.4) .  
..  
Preparing to unpack .../07-locales\_2.35-0ubuntu3.10\_all.deb ...  
Unpacking locales (2.35-0ubuntu3.10) over (2.35-0ubuntu3.8) ...  
Preparing to unpack .../08-openssl\_3.0.2-0ubuntu1.19\_arm64.deb ...  
Unpacking openssl (3.0.2-0ubuntu1.19) over (3.0.2-0ubuntu1.18) ...  
Preparing to unpack .../09-python3-setuptools\_59.6.0-1.2ubuntu0.22.04.3\_all.deb  
...  
Unpacking python3-setuptools (59.6.0-1.2ubuntu0.22.04.3) over (59.6.0-1.2ubuntu0  
.22.04.2) ...  
Preparing to unpack .../10-python3-pkg-resources\_59.6.0-1.2ubuntu0.22.04.3\_all.d  
eb ...  
Unpacking python3-pkg-resources (59.6.0-1.2ubuntu0.22.04.3) over (59.6.0-1.2ubun  
tu0.22.04.2) ...  
Preparing to unpack .../11-sudo\_1.9.9-1ubuntu2.5\_arm64.deb ...  
Unpacking sudo (1.9.9-1ubuntu2.5) over (1.9.9-1ubuntu2.4) ...  
Preparing to unpack .../12-vim\_2%3a8.2.3995-1ubuntu2.24\_arm64.deb ...  
Unpacking vim (2:8.2.3995-1ubuntu2.24) over (2:8.2.3995-1ubuntu2.23) ...  
Preparing to unpack .../13-vim-runtime\_2%3a8.2.3995-1ubuntu2.24\_all.deb ...  
Unpacking vim-runtime (2:8.2.3995-1ubuntu2.24) over (2:8.2.3995-1ubuntu2.23) ...  
Preparing to unpack .../14-xxd\_2%3a8.2.3995-1ubuntu2.24\_arm64.deb ...  
Unpacking xxd (2:8.2.3995-1ubuntu2.24) over (2:8.2.3995-1ubuntu2.23) ...  
Preparing to unpack .../15-vim-common\_2%3a8.2.3995-1ubuntu2.24\_all.deb ...  
Unpacking vim-common (2:8.2.3995-1ubuntu2.24) over (2:8.2.3995-1ubuntu2.23) ...  
Preparing to unpack .../16-pci.ids\_0.0~2022.01.22-1ubuntu0.1\_all.deb ...  
Unpacking pci.ids (0.0~2022.01.22-1ubuntu0.1) over (0.0~2022.01.22-1) ...  
Preparing to unpack .../17-apt-transport-https\_2.4.14\_all.deb ...  
Unpacking apt-transport-https (2.4.14) over (2.4.13) ...  
Preparing to unpack .../18-libctf0\_2.38-4ubuntu2.8\_arm64.deb ...  
Unpacking libctf0:arm64 (2.38-4ubuntu2.8) over (2.38-4ubuntu2.6) ...  
Preparing to unpack .../19-libctf-nobfd0\_2.38-4ubuntu2.8\_arm64.deb ...  
Unpacking libctf-nobfd0:arm64 (2.38-4ubuntu2.8) over (2.38-4ubuntu2.6) ...  
Preparing to unpack .../20-binutils-aarch64-linux-gnu\_2.38-4ubuntu2.8\_arm64.deb  
...  
Unpacking binutils-aarch64-linux-gnu (2.38-4ubuntu2.8) over (2.38-4ubuntu2.6) ..  
.  
Preparing to unpack .../21-libbinutils\_2.38-4ubuntu2.8\_arm64.deb ...  
Unpacking libbinutils:arm64 (2.38-4ubuntu2.8) over (2.38-4ubuntu2.6) ...

Preparing to unpack .../22-binutils\_2.38-4ubuntu2.8\_arm64.deb ...  
Unpacking binutils (2.38-4ubuntu2.8) over (2.38-4ubuntu2.6) ...  
Preparing to unpack .../23-binutils-common\_2.38-4ubuntu2.8\_arm64.deb ...  
Unpacking binutils-common:arm64 (2.38-4ubuntu2.8) over (2.38-4ubuntu2.6) ...  
Preparing to unpack .../24-libgstreamer1.0-0\_1.20.3-0ubuntu1.1\_arm64.deb ...  
Unpacking libgstreamer1.0-0:arm64 (1.20.3-0ubuntu1.1) over (1.20.3-0ubuntu1) ...  
Preparing to unpack .../25-libgstreamer-plugins-base1.0-0\_1.20.1-1ubuntu0.4\_arm64.deb ...  
Unpacking libgstreamer-plugins-base1.0-0:arm64 (1.20.1-1ubuntu0.4) over (1.20.1-1ubuntu0.2) ...  
Preparing to unpack .../26-gstreamer1.0-alsa\_1.20.1-1ubuntu0.4\_arm64.deb ...  
Unpacking gstreamer1.0-alsa:arm64 (1.20.1-1ubuntu0.4) over (1.20.1-1ubuntu0.2) .  
..  
Preparing to unpack .../27-gstreamer1.0-plugins-base\_1.20.1-1ubuntu0.4\_arm64.deb ...  
Unpacking gstreamer1.0-plugins-base:arm64 (1.20.1-1ubuntu0.4) over (1.20.1-1ubuntu0.2) ...  
Preparing to unpack .../28-gstreamer1.0-plugins-good\_1.20.3-0ubuntu1.3\_arm64.deb ...  
Unpacking gstreamer1.0-plugins-good:arm64 (1.20.3-0ubuntu1.3) over (1.20.3-0ubuntu1.1) ...  
Preparing to unpack .../29-libgstreamer-plugins-good1.0-0\_1.20.3-0ubuntu1.3\_arm64.deb ...  
Unpacking libgstreamer-plugins-good1.0-0:arm64 (1.20.3-0ubuntu1.3) over (1.20.3-0ubuntu1.1) ...  
Preparing to unpack .../30-libmpg123-0\_1.29.3-1ubuntu0.1\_arm64.deb ...  
Unpacking libmpg123-0:arm64 (1.29.3-1ubuntu0.1) over (1.29.3-1build1) ...  
Preparing to unpack .../31-libvpx7\_1.11.0-2ubuntu2.4\_arm64.deb ...  
Unpacking libvpx7:arm64 (1.11.0-2ubuntu2.4) over (1.11.0-2ubuntu2.3) ...  
Preparing to unpack .../32-libsoup2.4-common\_2.74.2-3ubuntu0.5\_all.deb ...  
Unpacking libsoup2.4-common (2.74.2-3ubuntu0.5) over (2.74.2-3) ...  
Preparing to unpack .../33-libsoup2.4-1\_2.74.2-3ubuntu0.5\_arm64.deb ...  
Unpacking libsoup2.4-1:arm64 (2.74.2-3ubuntu0.5) over (2.74.2-3) ...  
Preparing to unpack .../34-gstreamer1.0-tools\_1.20.3-0ubuntu1.1\_arm64.deb ...  
Unpacking gstreamer1.0-tools (1.20.3-0ubuntu1.1) over (1.20.3-0ubuntu1) ...  
Preparing to unpack .../35-libaom3\_3.3.0-1ubuntu0.1\_arm64.deb ...  
Unpacking libaom3:arm64 (3.3.0-1ubuntu0.1) over (3.3.0-1) ...  
Preparing to unpack .../36-libarchive-dev\_3.6.0-1ubuntu1.5\_arm64.deb ...  
Unpacking libarchive-dev:arm64 (3.6.0-1ubuntu1.5) over (3.6.0-1ubuntu1.3) ...  
Preparing to unpack .../37-libarchive13\_3.6.0-1ubuntu1.5\_arm64.deb ...  
Unpacking libarchive13:arm64 (3.6.0-1ubuntu1.5) over (3.6.0-1ubuntu1.3) ...  
Preparing to unpack .../38-libssh-4\_0.9.6-2ubuntu0.22.04.4\_arm64.deb ...  
Unpacking libssh-4:arm64 (0.9.6-2ubuntu0.22.04.4) over (0.9.6-2ubuntu0.22.04.3) ...  
...

Preparing to unpack .../39-libcurl3-gnutls\_7.81.0-1ubuntu1.20\_arm64.deb ...  
Unpacking libcurl3-gnutls:arm64 (7.81.0-1ubuntu1.20) over (7.81.0-1ubuntu1.18) .  
..  
Preparing to unpack .../40-libegl-mesa0\_23.2.1-1ubuntu3.1~22.04.3\_arm64.deb ...  
Unpacking libegl-mesa0:arm64 (23.2.1-1ubuntu3.1~22.04.3) over (23.2.1-1ubuntu3.1~22.04.2) ...  
Preparing to unpack .../41-libgbm1\_23.2.1-1ubuntu3.1~22.04.3\_arm64.deb ...  
Unpacking libgbm1:arm64 (23.2.1-1ubuntu3.1~22.04.3) over (23.2.1-1ubuntu3.1~22.04.2) ...  
Preparing to unpack .../42-libgl1-mesa-dri\_23.2.1-1ubuntu3.1~22.04.3\_arm64.deb .  
..  
Unpacking libgl1-mesa-dri:arm64 (23.2.1-1ubuntu3.1~22.04.3) over (23.2.1-1ubuntu3.1~22.04.2) ...  
Preparing to unpack .../43-libglx-mesa0\_23.2.1-1ubuntu3.1~22.04.3\_arm64.deb ...  
Unpacking libglx-mesa0:arm64 (23.2.1-1ubuntu3.1~22.04.3) over (23.2.1-1ubuntu3.1~22.04.2) ...  
Preparing to unpack .../44-libglapi-mesa\_23.2.1-1ubuntu3.1~22.04.3\_arm64.deb ...  
Unpacking libglapi-mesa:arm64 (23.2.1-1ubuntu3.1~22.04.3) over (23.2.1-1ubuntu3.1~22.04.2) ...  
Preparing to unpack .../45-libfreetype6\_2.11.1+dfsg-1ubuntu0.3\_arm64.deb ...  
Unpacking libfreetype6:arm64 (2.11.1+dfsg-1ubuntu0.3) over (2.11.1+dfsg-1ubuntu0.2) ...  
Preparing to unpack .../46-libgstreamer-gl1.0-0\_1.20.1-1ubuntu0.4\_arm64.deb ...  
Unpacking libgstreamer-gl1.0-0:arm64 (1.20.1-1ubuntu0.4) over (1.20.1-1ubuntu0.2) ...  
Preparing to unpack .../47-libharfbuzz0b\_2.7.4-1ubuntu3.2\_arm64.deb ...  
Unpacking libharfbuzz0b:arm64 (2.7.4-1ubuntu3.2) over (2.7.4-1ubuntu3.1) ...  
Preparing to unpack .../48-libiniparser1\_4.1-4ubuntu4.2\_arm64.deb ...  
Unpacking libiniparser1:arm64 (4.1-4ubuntu4.2) over (4.1-4ubuntu4.1) ...  
Preparing to unpack .../49-libpython2.7\_2.7.18-13ubuntu1.5\_arm64.deb ...  
Unpacking libpython2.7:arm64 (2.7.18-13ubuntu1.5) over (2.7.18-13ubuntu1.2) ...  
Preparing to unpack .../50-libpython2.7-stdlib\_2.7.18-13ubuntu1.5\_arm64.deb ...  
Unpacking libpython2.7-stdlib:arm64 (2.7.18-13ubuntu1.5) over (2.7.18-13ubuntu1.2) ...  
Preparing to unpack .../51-libpython2.7-minimal\_2.7.18-13ubuntu1.5\_arm64.deb ...  
Unpacking libpython2.7-minimal:arm64 (2.7.18-13ubuntu1.5) over (2.7.18-13ubuntu1.2) ...  
Preparing to unpack .../52-libsndfile1\_1.0.31-2ubuntu0.2\_arm64.deb ...  
Unpacking libsndfile1:arm64 (1.0.31-2ubuntu0.2) over (1.0.31-2ubuntu0.1) ...  
Preparing to unpack .../53-libssh-gcrypt-4\_0.9.6-2ubuntu0.22.04.4\_arm64.deb ...  
Unpacking libssh-gcrypt-4:arm64 (0.9.6-2ubuntu0.22.04.4) over (0.9.6-2ubuntu0.22.04.3) ...  
Preparing to unpack .../54-net-tools\_1.60+git20181103.0eebece-1ubuntu5.4\_arm64.deb ...  
Unpacking net-tools:arm64 (1.60+git20181103.0eebece-1ubuntu5.4) over (1.60+git20181103.0eebece-1ubuntu5.4) ...

Unpacking net-tools (1.60+git20181103.0eebece-1ubuntu5.4) over (1.60+git20181103.0eebece-1ubuntu5) ...  
Preparing to unpack .../55-python3-pip\_22.0.2+dfsg-1ubuntu0.6\_all.deb ...  
Unpacking python3-pip (22.0.2+dfsg-1ubuntu0.6) over (22.0.2+dfsg-1ubuntu0.5) ...  
Preparing to unpack .../56-wpasupplicant\_2%3a2.10-6ubuntu2.2\_arm64.deb ...  
Unpacking wpasupplicant (2:2.10-6ubuntu2.2) over (2:2.10-6ubuntu2.1) ...  
Preparing to unpack .../57-gnupg2\_2.2.27-3ubuntu2.4\_all.deb ...  
Unpacking gnupg2 (2.2.27-3ubuntu2.4) over (2.2.27-3ubuntu2.1) ...  
Preparing to unpack .../58-libopenjp2-7\_2.4.0-6ubuntu0.3\_arm64.deb ...  
Unpacking libopenjp2-7:arm64 (2.4.0-6ubuntu0.3) over (2.4.0-6ubuntu0.1) ...  
Setting up python3-pkg-resources (59.6.0-1.2ubuntu0.22.04.3) ...  
Setting up libssh-gcrypt-4:arm64 (0.9.6-2ubuntu0.22.04.4) ...  
Setting up libexpat1:arm64 (2.4.7-1ubuntu0.6) ...  
Setting up libaom3:arm64 (3.3.0-1ubuntu0.1) ...  
Setting up net-tools (1.60+git20181103.0eebece-1ubuntu5.4) ...  
Setting up libiniparser1:arm64 (4.1-4ubuntu4.2) ...  
Setting up pci.ids (0.0~2022.01.22-1ubuntu0.1) ...  
Setting up libmpg123-0:arm64 (1.29.3-1ubuntu0.1) ...  
Setting up python3-setuptools (59.6.0-1.2ubuntu0.22.04.3) ...  
Setting up apt-transport-https (2.4.14) ...  
Setting up libgbm1:arm64 (23.2.1-1ubuntu3.1~22.04.3) ...  
Setting up libglib2.0-0:arm64 (2.72.4-0ubuntu2.5) ...  
Setting up distro-info-data (0.52ubuntu0.9) ...  
Setting up libsqlite3-0:arm64 (3.37.2-2ubuntu0.4) ...  
Setting up binutils-common:arm64 (2.38-4ubuntu2.8) ...  
Setting up linux-libc-dev:arm64 (5.15.0-143.153) ...  
Setting up libctf-nobfd0:arm64 (2.38-4ubuntu2.8) ...  
Setting up perl-modules-5.34 (5.34.0-3ubuntu1.4) ...  
Setting up locales (2.35-0ubuntu3.10) ...  
debconf: unable to initialize frontend: Dialog  
debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 78.)  
debconf: falling back to frontend: Readline  
Generating locales (this might take a while)...  
en\_AG.UTF-8... done  
en\_AU.UTF-8... done  
en\_BW.UTF-8... done  
en\_CA.UTF-8... done  
en\_DK.UTF-8... done  
en\_GB.UTF-8... done  
en\_HK.UTF-8... done  
en\_IE.UTF-8... done  
en\_IL.UTF-8... done  
en\_IN.UTF-8... done



en\_NG.UTF-8... done  
en\_NZ.UTF-8... done  
en\_PH.UTF-8... done  
en\_SG.UTF-8... done  
en\_US.UTF-8... done  
en\_ZA.UTF-8... done  
en\_ZM.UTF-8... done  
en\_ZW.UTF-8... done  
Generation complete.  
Setting up libldap-2.5-0:arm64 (2.5.19+dfsg-0ubuntu0.22.04.1) ...  
Setting up xxd (2:8.2.3995-1ubuntu2.24) ...  
Setting up libcap2-bin (1:2.44-1ubuntu0.22.04.2) ...  
Setting up wpasupplicant (2:2.10-6ubuntu2.2) ...  
Setting up libpython2.7-minimal:arm64 (2.7.18-13ubuntu1.5) ...  
Setting up vim-common (2:8.2.3995-1ubuntu2.24) ...  
Setting up libfreetype6:arm64 (2.11.1+dfsg-1ubuntu0.3) ...  
Setting up gnupg-l10n (2.2.27-3ubuntu2.4) ...  
Setting up udev (249.11-0ubuntu3.16) ...  
invoke-rc.d: could not determine current runlevel  
invoke-rc.d: policy-rc.d denied execution of restart.  
Setting up libss2:arm64 (1.46.5-2ubuntu1.2) ...  
Setting up libpython3.10-minimal:arm64 (3.10.12-1~22.04.10) ...  
Setting up sudo (1.9.9-1ubuntu2.5) ...  
Setting up python3-pip (22.0.2+dfsg-1ubuntu0.6) ...  
Setting up libglapi-mesa:arm64 (23.2.1-1ubuntu3.1~22.04.3) ...  
Setting up logsave (1.46.5-2ubuntu1.2) ...  
Setting up libssh-4:arm64 (0.9.6-2ubuntu0.22.04.4) ...  
Setting up libsoup2.4-common (2.74.2-3ubuntu0.5) ...  
Setting up libdevmapper1.02.1:arm64 (2:1.02.175-2.1ubuntu5) ...  
Setting up mount (2.37.2-4ubuntu3.4) ...  
Setting up gpgconf (2.2.27-3ubuntu2.4) ...  
Setting up libopenjp2-7:arm64 (2.4.0-6ubuntu0.3) ...  
Setting up libharfbuzz0b:arm64 (2.7.4-1ubuntu3.2) ...  
Setting up libcryptsetup12:arm64 (2:2.4.3-1ubuntu1.3) ...  
Setting up libvpx7:arm64 (1.11.0-2ubuntu2.4) ...  
Setting up libsndfile1:arm64 (1.0.31-2ubuntu0.2) ...  
Setting up libbinutils:arm64 (2.38-4ubuntu2.8) ...  
Setting up vim-runtime (2:8.2.3995-1ubuntu2.24) ...  
Setting up libc-dev-bin (2.35-0ubuntu3.10) ...  
Setting up openssl (3.0.2-0ubuntu1.19) ...  
Setting up libelf1:arm64 (0.186-1ubuntu0.1) ...  
Setting up libxml2:arm64 (2.9.13+dfsg-1ubuntu0.7) ...  
Setting up gpg (2.2.27-3ubuntu2.4) ...  
Setting up gnupg-utils (2.2.27-3ubuntu2.4) ...

Setting up libctf0:arm64 (2.38-4ubuntu2.8) ...  
Setting up libdw1:arm64 (0.186-1ubuntu0.1) ...  
Setting up libperl5.34:arm64 (5.34.0-3ubuntu1.4) ...  
Setting up gpg-agent (2.2.27-3ubuntu2.4) ...  
Setting up libsoup2.4-1:arm64 (2.74.2-3ubuntu0.5) ...  
Setting up libarchive13:arm64 (3.6.0-1ubuntu1.5) ...  
Setting up gpgsm (2.2.27-3ubuntu2.4) ...  
Setting up libgl1-mesa-dri:arm64 (23.2.1-1ubuntu3.1~22.04.3) ...  
Setting up binutils-aarch64-linux-gnu (2.38-4ubuntu2.8) ...  
Setting up e2fsprogs (1.46.5-2ubuntu1.2) ...  
Setting up libcurl3-gnutls:arm64 (7.81.0-1ubuntu1.20) ...  
Setting up systemd (249.11-0ubuntu3.16) ...  
Setting up binutils (2.38-4ubuntu2.8) ...  
Setting up python3.10-minimal (3.10.12-1~22.04.10) ...  
Setting up libpython2.7-stdlib:arm64 (2.7.18-13ubuntu1.5) ...  
Setting up libpython3.10-stdlib:arm64 (3.10.12-1~22.04.10) ...  
Setting up dirmngr (2.2.27-3ubuntu2.4) ...  
Setting up perl (5.34.0-3ubuntu1.4) ...  
Setting up libegl-mesa0:arm64 (23.2.1-1ubuntu3.1~22.04.3) ...  
Setting up gpg-wks-server (2.2.27-3ubuntu2.4) ...  
Setting up libarchive-dev:arm64 (3.6.0-1ubuntu1.5) ...  
Setting up libc6-dev:arm64 (2.35-0ubuntu3.10) ...  
Setting up libgstreamer1.0-0:arm64 (1.20.3-0ubuntu1.1) ...  
Setcap worked! gst-ptp-helper is not suid!  
Setting up libpython3.10:arm64 (3.10.12-1~22.04.10) ...  
Setting up systemd-sysv (249.11-0ubuntu3.16) ...  
Setting up libpython2.7:arm64 (2.7.18-13ubuntu1.5) ...  
Setting up libglx-mesa0:arm64 (23.2.1-1ubuntu3.1~22.04.3) ...  
Setting up vim (2:8.2.3995-1ubuntu2.24) ...  
Setting up python3.10 (3.10.12-1~22.04.10) ...  
Setting up gpg-wks-client (2.2.27-3ubuntu2.4) ...  
Setting up libgstreamer-plugins-base1.0-0:arm64 (1.20.1-1ubuntu0.4) ...  
Setting up libgstreamer-plugins-good1.0-0:arm64 (1.20.3-0ubuntu1.3) ...  
Setting up libgstreamer-gl1.0-0:arm64 (1.20.1-1ubuntu0.4) ...  
Setting up gstreamer1.0-plugins-base:arm64 (1.20.1-1ubuntu0.4) ...  
Setting up libexpat1-dev:arm64 (2.4.7-1ubuntu0.6) ...  
Setting up gstreamer1.0-tools (1.20.3-0ubuntu1.1) ...  
Setting up libpython3.10-dev:arm64 (3.10.12-1~22.04.10) ...  
Setting up python3.10-dev (3.10.12-1~22.04.10) ...  
Setting up gnupg (2.2.27-3ubuntu2.4) ...  
Setting up libpam-systemd:arm64 (249.11-0ubuntu3.16) ...  
debconf: unable to initialize frontend: Dialog  
debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 78.)

```
debconf: falling back to frontend: Readline
Setting up gnupg2 (2.2.27-3ubuntu2.4) ...
Setting up gstreamer1.0-alsa:arm64 (1.20.1-1ubuntu0.4) ...
Setting up gstreamer1.0-plugins-good:arm64 (1.20.3-0ubuntu1.3) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for dbus (1.12.20-2ubuntu4.1) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for libc-bin (2.35-0ubuntu3.10) ...
root@iisr-dhai5g01:/usr/local/zed# sudo apt install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  git-man libcbor0.8 liberror-perl libfido2-1 openssh-client xauth
Suggested packages:
  gettext-base git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui
  gitk gitweb git-cvs git-mediawiki git-svn keychain libpam-ssh monkeysphere
  ssh-askpass
The following NEW packages will be installed:
  git git-man libcbor0.8 liberror-perl libfido2-1 openssh-client xauth
0 upgraded, 7 newly installed, 0 to remove and 0 not upgraded.
Need to get 5201 kB of archives.
After this operation, 23.9 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ports.ubuntu.com/ubuntu-ports jammy/main arm64 libcbor0.8 arm64 0.8.0-2ubuntu1
[24.3 kB]
Get:2 http://ports.ubuntu.com/ubuntu-ports jammy/main arm64 libfido2-1 arm64 1.10.0-1 [81.8
kB]
Get:3 http://ports.ubuntu.com/ubuntu-ports jammy-updates/main arm64 openssh-client arm64
1:8.9p1-3ubuntu0.13 [861 kB]
Get:4 http://ports.ubuntu.com/ubuntu-ports jammy/main arm64 xauth arm64 1:1.1-1build2 [26.8
kB]
Get:5 http://ports.ubuntu.com/ubuntu-ports jammy/main arm64 liberror-perl all 0.17029-1 [26.5
kB]
Get:6 http://ports.ubuntu.com/ubuntu-ports jammy-updates/main arm64 git-man all
1:2.34.1-1ubuntu1.13 [955 kB]
Get:7 http://ports.ubuntu.com/ubuntu-ports jammy-updates/main arm64 git arm64
1:2.34.1-1ubuntu1.13 [3225 kB]
Fetched 5201 kB in 4s (1267 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package libcbor0.8:arm64.
(Reading database ... 52471 files and directories currently installed.)
Preparing to unpack .../0-libcbor0.8_0.8.0-2ubuntu1_arm64.deb ...
Unpacking libcbor0.8:arm64 (0.8.0-2ubuntu1) ...
```

Selecting previously unselected package libfido2-1:arm64.  
Preparing to unpack .../1-libfido2-1\_1.10.0-1\_arm64.deb ...  
Unpacking libfido2-1:arm64 (1.10.0-1) ...  
Selecting previously unselected package openssh-client.  
Preparing to unpack .../2-openssh-client\_1%3a8.9p1-3ubuntu0.13\_arm64.deb ...  
Unpacking openssh-client (1:8.9p1-3ubuntu0.13) ...  
Selecting previously unselected package xauth.  
Preparing to unpack .../3-xauth\_1%3a1.1-1build2\_arm64.deb ...  
Unpacking xauth (1:1.1-1build2) ...  
Selecting previously unselected package liberror-perl.  
Preparing to unpack .../4-liberror-perl\_0.17029-1\_all.deb ...  
Unpacking liberror-perl (0.17029-1) ...  
Selecting previously unselected package git-man.  
Preparing to unpack .../5-git-man\_1%3a2.34.1-1ubuntu1.13\_all.deb ...  
Unpacking git-man (1:2.34.1-1ubuntu1.13) ...  
Selecting previously unselected package git.  
Preparing to unpack .../6-git\_1%3a2.34.1-1ubuntu1.13\_arm64.deb ...  
Unpacking git (1:2.34.1-1ubuntu1.13) ...  
Setting up libcbor0.8:arm64 (0.8.0-2ubuntu1) ...  
Setting up liberror-perl (0.17029-1) ...  
Setting up xauth (1:1.1-1build2) ...  
Setting up git-man (1:2.34.1-1ubuntu1.13) ...  
Setting up libfido2-1:arm64 (1.10.0-1) ...  
Setting up openssh-client (1:8.9p1-3ubuntu0.13) ...  
update-alternatives: using /usr/bin/ssh to provide /usr/bin/rsh (rsh) in auto mode  
update-alternatives: warning: skip creation of /usr/share/man/man1/rsh.1.gz because associated file /usr/share/man/man1/ssh.1.gz (of link group rsh) doesn't exist  
update-alternatives: using /usr/bin/slogin to provide /usr/bin/rlogin (rlogin) in auto mode  
update-alternatives: warning: skip creation of /usr/share/man/man1/rlogin.1.gz because associated file /usr/share/man/man1/slogin.1.gz (of link group rlogin) doesn't exist  
update-alternatives: using /usr/bin/scp to provide /usr/bin/rcp (rcp) in auto mode  
update-alternatives: warning: skip creation of /usr/share/man/man1/rcp.1.gz because associated file /usr/share/man/man1/scp.1.gz (of link group rcp) doesn't exist  
Setting up git (1:2.34.1-1ubuntu1.13) ...  
Processing triggers for man-db (2.10.2-1) ...  
Processing triggers for libc-bin (2.35-0ubuntu3.10) ...  
root@iisr-dhai5g01:/usr/local/zed# git clone https://github.com/facebookresearch/sonata.git  
Cloning into 'sonata'...

```
remote: Enumerating objects: 68, done.
remote: Counting objects: 100% (68/68), done.
remote: Compressing objects: 100% (50/50), done.
remote: Total 68 (delta 28), reused 54 (delta 18), pack-reused 0 (from 0)
Receiving objects: 100% (68/68), 1.86 MiB | 3.09 MiB/s, done.
Resolving deltas: 100% (28/28), done.
root@iisr-dhai5g01:/usr/local/zed# wget
https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-x86_64.sh
--2025-07-09 07:06:31--
https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-x86_64.sh
Resolving repo.anaconda.com (repo.anaconda.com)... 104.16.191.158, 104.16.32.241,
2606:4700:90d3:2c97:4aa6:0:6810:20f1
Connecting to repo.anaconda.com (repo.anaconda.com)|104.16.191.158|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 159476510 (152M) [application/octet-stream]
Saving to: 'Miniconda3-latest-Linux-x86_64.sh.1'
```

```
Miniconda3-latest-L 100%[=====>] 152.09M 22.6MB/s in 7.3s
```

```
2025-07-09 07:06:39 (20.8 MB/s) - 'Miniconda3-latest-Linux-x86_64.sh.1' saved
[159476510/159476510]
```

```
root@iisr-dhai5g01:/usr/local/zed# bash Miniconda3-latest-Linux-x86_64.sh
WARNING:
```

```
  Your operating system appears not to be x86_64, but you are trying to
  install a x86_64 version of Miniconda3.
```

```
  Are sure you want to continue the installation? [yes|no]
```

```
[no] >>> yes
```

```
Welcome to Miniconda3 py313_25.5.1-0
```

```
In order to continue the installation process, please review the license
agreement.
```

```
Please, press ENTER to continue
```

```
>>>
```

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>>>

Please answer 'yes' or 'no':

>>>

Please answer 'yes' or 'no':

>>>

Please answer 'yes' or 'no':

>>> yes

Miniconda3 will now be installed into this location:  
/root/miniconda3

- Press ENTER to confirm the location
  - Press CTRL-C to abort the installation
  - Or specify a different location below
- Note: environment variables will NOT be expanded.

```
[/root/miniconda3] >>>
ERROR: File or directory already exists: '/root/miniconda3'
If you want to update an existing installation, use the -u option.
root@iisr-dhai5g01:/usr/local/zed# bash Miniconda3-latest-Linux-x86_64.sh -u
WARNING:
  Your operating system appears not to be x86_64, but you are trying to
  install a x86_64 version of Miniconda3.
  Are sure you want to continue the installation? [yes|no]
[no] >>> yes
```

Welcome to Miniconda3 py313\_25.5.1-0

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Please, press ENTER to continue  
>>>

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/root/miniconda3

- Press ENTER to confirm the location
  - Press CTRL-C to abort the installation
  - Or specify a different location below
- Note: environment variables will NOT be expanded.

[/root/miniconda3] >>>

PREFIX=/root/miniconda3

Unpacking payload ...

Miniconda3-latest-Linux-x86\_64.sh: line 333: /root/miniconda3/\_conda: cannot execute binary file: Exec format error

root@iisr-dhai5g01:/usr/local/zed# wget

<https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-aarch64.sh>

chmod +x Miniconda3-latest-Linux-aarch64.sh

./Miniconda3-latest-Linux-aarch64.sh



--2025-07-09 07:09:08--

https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-aarch64.sh

Resolving repo.anaconda.com (repo.anaconda.com)... 104.16.191.158, 104.16.32.241,  
2606:4700:90d3:2c97:4aa8:0:6810:20f1

Connecting to repo.anaconda.com (repo.anaconda.com)[104.16.191.158]:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 152466398 (145M) [application/octet-stream]

Saving to: 'Miniconda3-latest-Linux-aarch64.sh'

Miniconda3-latest-L 100%[=====>] 145.40M 22.3MB/s in 7.7s

2025-07-09 07:09:16 (19.0 MB/s) - 'Miniconda3-latest-Linux-aarch64.sh' saved  
[152466398/152466398]

Welcome to Miniconda3 py313\_25.5.1-0

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>>> yes

Miniconda3 will now be installed into this location:

/root/miniconda3

- Press ENTER to confirm the location
  - Press CTRL-C to abort the installation
  - Or specify a different location below
- Note: environment variables will NOT be expanded.

[/root/miniconda3] >>>

ERROR: File or directory already exists: '/root/miniconda3'

If you want to update an existing installation, use the -u option.

root@iisr-dhai5g01:/usr/local/zed# wget

https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-aarch64.sh -u

wget: invalid option -- 'u'

Usage: wget [OPTION]... [URL]...

Try 'wget --help' for more options.

root@iisr-dhai5g01:/usr/local/zed# chmod +x Miniconda3-latest-Linux-aarch64.sh -u

chmod: cannot access '+x': No such file or directory

root@iisr-dhai5g01:/usr/local/zed# # Download the ARM64 Miniforge installer

wget

<https://github.com/conda-forge/miniforge/releases/latest/download/Miniforge3-Linux-aarch64.sh>

# Make it executable

chmod +x Miniforge3-Linux-aarch64.sh

# Install it

./Miniforge3-Linux-aarch64.sh

--2025-07-09 07:10:26--

<https://github.com/conda-forge/miniforge/releases/latest/download/Miniforge3-Linux-aarch64.sh>

Resolving github.com (github.com)... 20.207.73.82

Connecting to github.com (github.com)[20.207.73.82]:443... connected.

HTTP request sent, awaiting response... 302 Found

Location:

<https://github.com/conda-forge/miniforge/releases/download/25.3.0-3/Miniforge3-Linux-aarch64.sh> [following]

--2025-07-09 07:10:27--

<https://github.com/conda-forge/miniforge/releases/download/25.3.0-3/Miniforge3-Linux-aarch64.sh>

Reusing existing connection to github.com:443.

HTTP request sent, awaiting response... 302 Found

Location:

[https://objects.githubusercontent.com/github-production-release-asset-2e65be/221584272/21eaccdc-9d66-4aee-9e1d-ee762bef6303?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20250709%2Fus-east-1%2Fs3%2Faws4\\_request&X-Amz-Date=20250709T071027Z&X-Amz-Expires=1800&X-Amz-Signature=e2a1a35109de5429a20d37396bc33b6350179678f6b741de417b1a89b69cc516&X-Amz-SignedHeaders=host&response-content-disposition=attachment%3B%20filename%3DMiniforge3-Linux-aarch64.sh&response-content-type=application%2Foctet-stream](https://objects.githubusercontent.com/github-production-release-asset-2e65be/221584272/21eaccdc-9d66-4aee-9e1d-ee762bef6303?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20250709%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20250709T071027Z&X-Amz-Expires=1800&X-Amz-Signature=e2a1a35109de5429a20d37396bc33b6350179678f6b741de417b1a89b69cc516&X-Amz-SignedHeaders=host&response-content-disposition=attachment%3B%20filename%3DMiniforge3-Linux-aarch64.sh&response-content-type=application%2Foctet-stream) [following]

--2025-07-09 07:10:27--

[https://objects.githubusercontent.com/github-production-release-asset-2e65be/221584272/21eaccdc-9d66-4aee-9e1d-ee762bef6303?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20250709%2Fus-east-1%2Fs3%2Faws4\\_request&X-Amz-Date=20250709T071027Z&X-Amz-Expires=1800&X-Amz-Signature=e2a1a35109de5429a20d37396bc33b6350179678f6b741de417b1a89b69cc516&X-Amz-SignedHeaders=host&response-content-disposition=attachment%3B%20filename%3DMiniforge3-Linux-aarch64.sh&response-content-type=application%2Foctet-stream](https://objects.githubusercontent.com/github-production-release-asset-2e65be/221584272/21eaccdc-9d66-4aee-9e1d-ee762bef6303?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20250709%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20250709T071027Z&X-Amz-Expires=1800&X-Amz-Signature=e2a1a35109de5429a20d37396bc33b6350179678f6b741de417b1a89b69cc516&X-Amz-SignedHeaders=host&response-content-disposition=attachment%3B%20filename%3DMiniforge3-Linux-aarch64.sh&response-content-type=application%2Foctet-stream)

Resolving objects.githubusercontent.com (objects.githubusercontent.com)... 185.199.108.133, 185.199.111.133, 185.199.109.133, ...

Connecting to objects.githubusercontent.com

(objects.githubusercontent.com)[185.199.108.133]:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 68287819 (65M) [application/octet-stream]

Saving to: 'Miniforge3-Linux-aarch64.sh'

Miniforge3-Linux-aa 100%[=====>] 65.12M 4.34MB/s in 24s

2025-07-09 07:10:52 (2.77 MB/s) - 'Miniforge3-Linux-aarch64.sh' saved [68287819/68287819]

Welcome to Miniforge3 25.3.0-3

In order to continue the installation process, please review the license agreement.

Please, press ENTER to continue

>>>

Miniforge installer code uses BSD-3-Clause license as stated below.

Binary packages that come with it have their own licensing terms and by installing miniforge you agree to the licensing terms of individual packages as well. They include different OSI-approved licenses including the GNU General Public License and can be found in `pkgs/<pkg-name>/info/licenses` folders.

Miniforge installer comes with a bootstrapping executable that is used when installing miniforge and is deleted after miniforge is installed. The bootstrapping executable uses micromamba, cli11, cpp-filesystem, curl, c-ares, krb5, libarchive, libev, lz4, nghttp2, openssl, libsolv, nlohmann-json, reproc and zstd which are licensed under BSD-3-Clause, MIT and OpenSSL licenses. Licenses and copyright notices of these projects can be found at the following URL.  
<https://github.com/conda-forge/micromamba-feedstock/tree/master/recipe>.

=====

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Do you accept the license terms? [yes|no]

>>>

Please answer 'yes' or 'no':

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Please answer 'yes' or 'no':

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Please answer 'yes' or 'no':  
>>> yes

Miniforge3 will now be installed into this location:  
/root/miniforge3

- Press ENTER to confirm the location
  - Press CTRL-C to abort the installation
  - Or specify a different location below
- Note: environment variables will NOT be expanded.

```
[/root/miniforge3] >>>
PREFIX=/root/miniforge3
Unpacking payload ...
Extracting ca-certificates-2025.4.26-hbd8a1cb_0.conda
Extracting ld_impl_linux-aarch64-2.43-h80caac9_4.conda
Extracting libgomp-15.1.0-he277a41_2.conda
Extracting pybind11-abi-4-hd8ed1ab_3.tar.bz2
Extracting python_abi-3.12-7_cp312.conda
Extracting tzdata-2025b-h78e105d_0.conda
Extracting _openmp_mutex-4.5-2_gnu.tar.bz2
Extracting libgcc-15.1.0-he277a41_2.conda
Extracting c-ares-1.34.5-h86ecc28_0.conda
Extracting libexpat-2.7.0-h5ad3122_0.conda
Extracting libffi-3.4.6-he21f813_1.conda
Extracting libgcc-ng-15.1.0-he9431aa_2.conda
Extracting libiconv-1.18-hc99b53d_1.conda
Extracting liblzma-5.8.1-h86ecc28_1.conda
Extracting libstdc++-15.1.0-h3f4de04_2.conda
Extracting libzlib-1.3.1-h86ecc28_2.conda
Extracting ncurses-6.5-ha32ae93_3.conda
Extracting openssl-3.5.0-hd08dc88_1.conda
Extracting reproducible-14.2.5.post0-h86ecc28_0.conda
Extracting bzip2-1.0.8-h68df207_7.conda
Extracting cpp-expected-1.1.0-h17cf362_1.conda
Extracting fmt-11.1.4-h97e1849_1.conda
Extracting keyutils-1.6.1-h4e544f5_0.tar.bz2
Extracting libedit-3.1.20250104-pl5321h976ea20_0.conda
Extracting libev-4.33-h31becfc_2.conda
Extracting libnsl-2.0.1-h31becfc_0.conda
Extracting libsolv-0.7.32-hf428078_2.conda
Extracting libsqlite-3.49.2-h5eb1b54_0.conda
Extracting libssh2-1.11.1-h18c354c_0.conda
Extracting libstdc++-ng-15.1.0-hf1166c9_2.conda
Extracting libuuid-2.38.1-hb4cce97_0.conda
Extracting libxcrypt-4.4.36-h31becfc_1.conda
Extracting libxml2-2.13.8-h4fea317_0.conda
Extracting lz4-c-1.10.0-h5ad3122_1.conda
Extracting lzo-2.10-h31becfc_1001.conda
Extracting readline-8.2-h8382b9d_2.conda
```

Extracting repro-cpp-14.2.5.post0-h5ad3122\_0.conda  
Extracting simdjson-3.12.3-h17cf362\_0.conda  
Extracting tk-8.6.13-h194ca79\_0.conda  
Extracting yaml-cpp-0.8.0-h5ad3122\_0.conda  
Extracting zstd-1.5.7-hbcf94c1\_2.conda  
Extracting krb5-1.21.3-h50a48e9\_0.conda  
Extracting libarchive-3.7.7-h91b5310\_4.conda  
Extracting libnghttp2-1.64.0-hc8609a4\_0.conda  
Extracting nlohmann\_json-3.11.3-h0a1ffab\_1.conda  
Extracting python-3.12.10-h1683364\_0\_cpython.conda  
Extracting libcurl-8.13.0-h6702fde\_0.conda  
Extracting menuinst-2.2.0-py312h996f985\_0.conda  
Extracting archspec-0.2.5-pyhd8ed1ab\_0.conda  
Extracting boltons-24.0.0-pyhd8ed1ab\_1.conda  
Extracting brotli-python-1.1.0-py312h6f74592\_2.conda  
Extracting certifi-2025.4.26-pyhd8ed1ab\_0.conda  
Extracting charset-normalizer-3.4.2-pyhd8ed1ab\_0.conda  
Extracting colorama-0.4.6-pyhd8ed1ab\_1.conda  
Extracting distro-1.9.0-pyhd8ed1ab\_1.conda  
Extracting frozendict-2.4.6-py312hb2c0f52\_0.conda  
Extracting hpack-4.1.0-pyhd8ed1ab\_0.conda  
Extracting hyperframe-6.1.0-pyhd8ed1ab\_0.conda  
Extracting idna-3.10-pyhd8ed1ab\_1.conda  
Extracting jsonpointer-3.0.0-py312h996f985\_1.conda  
Extracting libmamba-2.1.1-hbe5a9cd\_0.conda  
Extracting packaging-25.0-pyh29332c3\_1.conda  
Extracting platformdirs-4.3.8-pyhe01879c\_0.conda  
Extracting pluggy-1.5.0-pyhd8ed1ab\_1.conda  
Extracting pycosat-0.6.6-py312hb2c0f52\_2.conda  
Extracting pycparser-2.22-pyh29332c3\_1.conda  
Extracting pysocks-1.7.1-pyha55dd90\_7.conda  
Extracting ruamel.yaml.clib-0.2.8-py312hb2c0f52\_1.conda  
Extracting setuptools-80.1.0-pyhff2d567\_0.conda  
Extracting truststore-0.10.1-pyh29332c3\_0.conda  
Extracting wheel-0.45.1-pyhd8ed1ab\_1.conda  
Extracting cffi-1.17.1-py312hac81daf\_0.conda  
Extracting h2-4.2.0-pyhd8ed1ab\_0.conda  
Extracting jsonpatch-1.33-pyhd8ed1ab\_1.conda  
Extracting libmambapy-2.1.1-py312h033ebb1\_0.conda  
Extracting mamba-2.1.1-hf3e92e0\_0.conda  
Extracting pip-25.1.1-pyh8b19718\_0.conda  
Extracting ruamel.yaml-0.18.10-py312hb2c0f52\_0.conda  
Extracting tqdm-4.67.1-pyhd8ed1ab\_1.conda  
Extracting zstandard-0.23.0-py312hb2c0f52\_2.conda



Extracting conda-package-streaming-0.11.0-pyhd8ed1ab\_1.conda

Extracting urllib3-2.4.0-pyhd8ed1ab\_0.conda

Extracting requests-2.32.3-pyhd8ed1ab\_1.conda

Extracting conda-package-handling-2.4.0-pyh7900ff3\_2.conda

Extracting conda-25.3.0-py312h996f985\_0.conda

Extracting conda-libmamba-solver-25.3.0-pyhd8ed1ab\_0.conda

Installing base environment...

Transaction

Prefix: /root/miniforge3

Updating specs:

- ca-certificates==2025.4.26=hbd8a1cb\_0
- ld\_impl\_linux-aarch64==2.43=h80caac9\_4
- libgomp==15.1.0=he277a41\_2
- pybind11-abi==4=hd8ed1ab\_3
- python\_abi==3.12=7\_cp312
- tzdata==2025b=h78e105d\_0
- \_openmp\_mutex==4.5=2\_gnu
- libgcc==15.1.0=he277a41\_2
- c-ares==1.34.5=h86ecc28\_0
- libexpat==2.7.0=h5ad3122\_0
- libffi==3.4.6=he21f813\_1
- libgcc-ng==15.1.0=he9431aa\_2
- libiconv==1.18=hc99b53d\_1
- liblzma==5.8.1=h86ecc28\_1
- libstdcxx==15.1.0=h3f4de04\_2
- libzlib==1.3.1=h86ecc28\_2
- ncurses==6.5=ha32ae93\_3
- openssl==3.5.0=hd08dc88\_1
- reproc==14.2.5.0post0=h86ecc28\_0
- bzip2==1.0.8=h68df207\_7
- cpp-expected==1.1.0=h17cf362\_1
- fmt==11.1.4=h97e1849\_1
- keyutils==1.6.1=h4e544f5\_0
- libedit==3.1.20250104=pl5321h976ea20\_0
- libev==4.33=h31becfc\_2
- libns1==2.0.1=h31becfc\_0
- libsolv==0.7.32=hf428078\_2
- libsqlite==3.49.2=h5eb1b54\_0
- libssh2==1.11.1=h18c354c\_0

- libstdcxx-ng==15.1.0=hf1166c9\_2
- libuuid==2.38.1=hb4cce97\_0
- libxcrypt==4.4.36=h31becfc\_1
- libxml2==2.13.8=h4fea317\_0
- lz4-c==1.10.0=h5ad3122\_1
- lzo==2.10=h31becfc\_1001
- readline==8.2=h8382b9d\_2
- repro-cpp==14.2.5.0post0=h5ad3122\_0
- simdjson==3.12.3=h17cf362\_0
- tk==8.6.13=h194ca79\_0
- yaml-cpp==0.8.0=h5ad3122\_0
- zstd==1.5.7=hbcf94c1\_2
- krb5==1.21.3=h50a48e9\_0
- libarchive==3.7.7=h91b5310\_4
- libnghttp2==1.64.0=hc8609a4\_0
- nlohmann\_json==3.11.3=h0a1ffab\_1
- python==3.12.10=h1683364\_0\_cpython
- libcurl==8.13.0=h6702fde\_0
- menuinst==2.2.0=py312h996f985\_0
- archspec==0.2.5=pyhd8ed1ab\_0
- boltons==24.0.0=pyhd8ed1ab\_1
- brotli-python==1.1.0=py312h6f74592\_2
- certifi==2025.4.26=pyhd8ed1ab\_0
- charset-normalizer==3.4.2=pyhd8ed1ab\_0
- colorama==0.4.6=pyhd8ed1ab\_1
- distro==1.9.0=pyhd8ed1ab\_1
- frozendict==2.4.6=py312hb2c0f52\_0
- hpack==4.1.0=pyhd8ed1ab\_0
- hyperframe==6.1.0=pyhd8ed1ab\_0
- idna==3.10=pyhd8ed1ab\_1
- jsonpointer==3.0.0=py312h996f985\_1
- libmamba==2.1.1=hbe5a9cd\_0
- packaging==25.0=pyh29332c3\_1
- platformdirs==4.3.8=pyhe01879c\_0
- pluggy==1.5.0=pyhd8ed1ab\_1
- pycosat==0.6.6=py312hb2c0f52\_2
- pycparser==2.22=pyh29332c3\_1
- pysocks==1.7.1=pyha55dd90\_7
- ruamel.yaml.clib==0.2.8=py312hb2c0f52\_1
- setuptools==80.1.0=pyhff2d567\_0
- truststore==0.10.1=pyh29332c3\_0
- wheel==0.45.1=pyhd8ed1ab\_1
- cffi==1.17.1=py312hac81daf\_0
- h2==4.2.0=pyhd8ed1ab\_0

- jsonpatch==1.33=pyhd8ed1ab\_1
- libmambapy==2.1.1=py312h033ebb1\_0
- mamba==2.1.1=hf3e92e0\_0
- pip==25.1.1=pyh8b19718\_0
- ruamel.yaml==0.18.10=py312hb2c0f52\_0
- tqdm==4.67.1=pyhd8ed1ab\_1
- zstandard==0.23.0=py312hb2c0f52\_2
- conda-package-streaming==0.11.0=pyhd8ed1ab\_1
- urllib3==2.4.0=pyhd8ed1ab\_0
- requests==2.32.3=pyhd8ed1ab\_1
- conda-package-handling==2.4.0=pyh7900ff3\_2
- conda==25.3.0=py312h996f985\_0
- conda-libmamba-solver==25.3.0=pyhd8ed1ab\_0

Package	Version	Build	Channel	Size
<hr/>				
Install:				
<hr/>				

+ _openmp_mutex	4.5	2_gnu	conda-forge
+ archspec	0.2.5	pyhd8ed1ab_0	conda-forge
+ boltons	24.0.0	pyhd8ed1ab_1	conda-forge
+ brotli-python	1.1.0	py312h6f74592_2	conda-forge
+ bzip2	1.0.8	h68df207_7	conda-forge
+ c-ares	1.34.5	h86ecc28_0	conda-forge
+ ca-certificates	2025.4.26	hbd8a1cb_0	conda-forge
+ certifi	2025.4.26	pyhd8ed1ab_0	conda-forge
+ cffi	1.17.1	py312hac81daf_0	conda-forge
+ charset-normalizer	3.4.2	pyhd8ed1ab_0	conda-forge
+ colorama	0.4.6	pyhd8ed1ab_1	conda-forge
+ conda	25.3.0	py312h996f985_0	conda-forge
+ conda-libmamba-solver	25.3.0	pyhd8ed1ab_0	conda-forge
+ conda-package-handling	2.4.0	pyh7900ff3_2	conda-forge
+ conda-package-streaming	0.11.0	pyhd8ed1ab_1	conda-forge
+ cpp-expected	1.1.0	h17cf362_1	conda-forge
+ distro	1.9.0	pyhd8ed1ab_1	conda-forge
+ fmt	11.1.4	h97e1849_1	conda-forge
+ frozendict	2.4.6	py312hb2c0f52_0	conda-forge
+ h2	4.2.0	pyhd8ed1ab_0	conda-forge
+ hpack	4.1.0	pyhd8ed1ab_0	conda-forge
+ hyperframe	6.1.0	pyhd8ed1ab_0	conda-forge

+ idna	3.10	pyhd8ed1ab_1	conda-forge
+ jsonpatch	1.33	pyhd8ed1ab_1	conda-forge
+ jsonpointer	3.0.0	py312h996f985_1	conda-forge
+ keyutils	1.6.1	h4e544f5_0	conda-forge
+ krb5	1.21.3	h50a48e9_0	conda-forge
+ ld_impl_linux-aarch64	2.43	h80caac9_4	conda-forge
+ libarchive	3.7.7	h91b5310_4	conda-forge
+ libcurl	8.13.0	h6702fde_0	conda-forge
+ libedit	3.1.20250104	pl5321h976ea20_0	conda-forge
+ libev	4.33	h31becfc_2	conda-forge
+ libexpat	2.7.0	h5ad3122_0	conda-forge
+ libffi	3.4.6	he21f813_1	conda-forge
+ libgcc	15.1.0	he277a41_2	conda-forge
+ libgcc-ng	15.1.0	he9431aa_2	conda-forge
+ libgomp	15.1.0	he277a41_2	conda-forge
+ libiconv	1.18	hc99b53d_1	conda-forge
+ liblzma	5.8.1	h86ecc28_1	conda-forge
+ libmamba	2.1.1	hbe5a9cd_0	conda-forge
+ libmambapy	2.1.1	py312h033ebb1_0	conda-forge
+ libnghttp2	1.64.0	hc8609a4_0	conda-forge
+ libnsl	2.0.1	h31becfc_0	conda-forge
+ libsolov	0.7.32	hf428078_2	conda-forge
+ libsqlite	3.49.2	h5eb1b54_0	conda-forge
+ libssh2	1.11.1	h18c354c_0	conda-forge
+ libstdcxx	15.1.0	h3f4de04_2	conda-forge
+ libstdcxx-ng	15.1.0	hf1166c9_2	conda-forge
+ libuuid	2.38.1	hb4cce97_0	conda-forge
+ libxcrypt	4.4.36	h31becfc_1	conda-forge
+ libxml2	2.13.8	h4fea317_0	conda-forge
+ libzlib	1.3.1	h86ecc28_2	conda-forge
+ lz4-c	1.10.0	h5ad3122_1	conda-forge
+ lzo	2.10	h31becfc_1001	conda-forge
+ mamba	2.1.1	hf3e92e0_0	conda-forge
+ menuinst	2.2.0	py312h996f985_0	conda-forge
+ ncurses	6.5	ha32ae93_3	conda-forge
+ nlohmann_json	3.11.3	h0a1ffab_1	conda-forge
+ openssl	3.5.0	hd08dc88_1	conda-forge
+ packaging	25.0	pyh29332c3_1	conda-forge
+ pip	25.1.1	pyh8b19718_0	conda-forge
+ platformdirs	4.3.8	pyhe01879c_0	conda-forge
+ pluggy	1.5.0	pyhd8ed1ab_1	conda-forge
+ pybind11-abi	4	hd8ed1ab_3	conda-forge
+ pycosat	0.6.6	py312hb2c0f52_2	conda-forge
+ pycparser	2.22	pyh29332c3_1	conda-forge

+ pysocks	1.7.1	pyha55dd90_7	conda-forge
+ python	3.12.10	h1683364_0_cpython	conda-forge
+ python_abi	3.12	7_cp312	conda-forge
+ readline	8.2	h8382b9d_2	conda-forge
+ reproc	14.2.5.post0	h86ecc28_0	conda-forge
+ reproc-cpp	14.2.5.post0	h5ad3122_0	conda-forge
+ requests	2.32.3	pyhd8ed1ab_1	conda-forge
+ ruamel.yaml	0.18.10	py312hb2c0f52_0	conda-forge
+ ruamel.yaml.clib	0.2.8	py312hb2c0f52_1	conda-forge
+ setuptools	80.1.0	pyhff2d567_0	conda-forge
+ simdjson	3.12.3	h17cf362_0	conda-forge
+ tk	8.6.13	h194ca79_0	conda-forge
+ tqdm	4.67.1	pyhd8ed1ab_1	conda-forge
+ truststore	0.10.1	pyh29332c3_0	conda-forge
+ tzdata	2025b	h78e105d_0	conda-forge
+ urllib3	2.4.0	pyhd8ed1ab_0	conda-forge
+ wheel	0.45.1	pyhd8ed1ab_1	conda-forge
+ yaml-cpp	0.8.0	h5ad3122_0	conda-forge
+ zstandard	0.23.0	py312hb2c0f52_2	conda-forge
+ zstd	1.5.7	hbcf94c1_2	conda-forge

Summary:

Install: 86 packages

Total download: 0 B

---

Transaction starting

Linking ca-certificates-2025.4.26-hbd8a1cb\_0

Linking ld\_impl\_linux-aarch64-2.43-h80caac9\_4

Linking libgomp-15.1.0-he277a41\_2

Linking pybind11-abi-4-hd8ed1ab\_3

Linking python\_abi-3.12-7\_cp312

Linking tzdata-2025b-h78e105d\_0

Linking \_openmp\_mutex-4.5-2\_gnu

Linking libgcc-15.1.0-he277a41\_2

Linking c-ares-1.34.5-h86ecc28\_0

Linking libexpat-2.7.0-h5ad3122\_0

Linking libffi-3.4.6-he21f813\_1

Linking libgcc-ng-15.1.0-he9431aa\_2  
Linking libiconv-1.18-hc99b53d\_1  
Linking liblzma-5.8.1-h86ecc28\_1  
Linking libstdcxx-15.1.0-h3f4de04\_2  
Linking libzlib-1.3.1-h86ecc28\_2  
Linking ncurses-6.5-ha32ae93\_3  
Linking openssl-3.5.0-hd08dc88\_1  
Linking reproc-14.2.5.post0-h86ecc28\_0  
Linking bzip2-1.0.8-h68df207\_7  
Linking cpp-expected-1.1.0-h17cf362\_1  
Linking fmt-11.1.4-h97e1849\_1  
Linking keyutils-1.6.1-h4e544f5\_0  
Linking libedit-3.1.20250104-pl5321h976ea20\_0  
Linking libev-4.33-h31becfc\_2  
Linking libns1-2.0.1-h31becfc\_0  
Linking libsolv-0.7.32-hf428078\_2  
Linking libsqlite-3.49.2-h5eb1b54\_0  
Linking libssh2-1.11.1-h18c354c\_0  
Linking libstdcxx-ng-15.1.0-hf1166c9\_2  
Linking libuuid-2.38.1-hb4cce97\_0  
Linking libxcrypt-4.4.36-h31becfc\_1  
Linking libxml2-2.13.8-h4fea317\_0  
Linking lz4-c-1.10.0-h5ad3122\_1  
Linking lzo-2.10-h31becfc\_1001  
Linking readline-8.2-h8382b9d\_2  
Linking reproc-cpp-14.2.5.post0-h5ad3122\_0  
Linking simdjson-3.12.3-h17cf362\_0  
Linking tk-8.6.13-h194ca79\_0  
Linking yaml-cpp-0.8.0-h5ad3122\_0  
Linking zstd-1.5.7-hbcf94c1\_2  
Linking krb5-1.21.3-h50a48e9\_0  
Linking libarchive-3.7.7-h91b5310\_4  
Linking libnghttp2-1.64.0-hc8609a4\_0  
Linking nlohmann\_json-3.11.3-h0a1ffab\_1  
Linking python-3.12.10-h1683364\_0\_cpython  
Linking libcurl-8.13.0-h6702fde\_0  
Linking menuinst-2.2.0-py312h996f985\_0  
Linking archspec-0.2.5-pyhd8ed1ab\_0  
Linking boltons-24.0.0-pyhd8ed1ab\_1  
Linking brotli-python-1.1.0-py312h6f74592\_2  
Linking certifi-2025.4.26-pyhd8ed1ab\_0  
Linking charset-normalizer-3.4.2-pyhd8ed1ab\_0  
Linking colorama-0.4.6-pyhd8ed1ab\_1  
Linking distro-1.9.0-pyhd8ed1ab\_1

Linking frozendict-2.4.6-py312hb2c0f52\_0  
Linking hpack-4.1.0-pyhd8ed1ab\_0  
Linking hyperframe-6.1.0-pyhd8ed1ab\_0  
Linking idna-3.10-pyhd8ed1ab\_1  
Linking jsonpointer-3.0.0-py312h996f985\_1  
Linking libmamba-2.1.1-hbe5a9cd\_0  
Linking packaging-25.0-pyh29332c3\_1  
Linking platformdirs-4.3.8-pyhe01879c\_0  
Linking pluggy-1.5.0-pyhd8ed1ab\_1  
Linking pycosat-0.6.6-py312hb2c0f52\_2  
Linking pycparser-2.22-pyh29332c3\_1  
Linking pysocks-1.7.1-pyha55dd90\_7  
Linking ruamel.yaml.clib-0.2.8-py312hb2c0f52\_1  
Linking setuptools-80.1.0-pyhff2d567\_0  
Linking truststore-0.10.1-pyh29332c3\_0  
Linking wheel-0.45.1-pyhd8ed1ab\_1  
Linking cffi-1.17.1-py312hac81daf\_0  
Linking h2-4.2.0-pyhd8ed1ab\_0  
Linking jsonpatch-1.33-pyhd8ed1ab\_1  
Linking libmambapy-2.1.1-py312h033ebb1\_0  
Linking mamba-2.1.1-hf3e92e0\_0  
Linking pip-25.1.1-pyh8b19718\_0  
Linking ruamel.yaml-0.18.10-py312hb2c0f52\_0  
Linking tqdm-4.67.1-pyhd8ed1ab\_1  
Linking zstandard-0.23.0-py312hb2c0f52\_2  
Linking conda-package-streaming-0.11.0-pyhd8ed1ab\_1  
Linking urllib3-2.4.0-pyhd8ed1ab\_0  
Linking requests-2.32.3-pyhd8ed1ab\_1  
Linking conda-package-handling-2.4.0-pyh7900ff3\_2  
Linking conda-25.3.0-py312h996f985\_0  
Linking conda-libmamba-solver-25.3.0-pyhd8ed1ab\_0

Transaction finished

installation finished.

Do you wish to update your shell profile to automatically initialize conda?

This will activate conda on startup and change the command prompt when activated.

If you'd prefer that conda's base environment not be activated on startup,  
run the following command when conda is activated:

```
conda config --set auto_activate_base false
```

You can undo this by running `conda init --reverse \$SHELL`? [yes|no]  
[no] >>> yes

```
./Miniforge3-Linux-aarch64.sh: 524: SHELL: parameter not set
root@iisr-dhai5g01:/usr/local/zed# ./Miniforge3-Linux-aarch64.sh
```

Welcome to Miniforge3 25.3.0-3

In order to continue the installation process, please review the license agreement.

Please, press ENTER to continue

>>>

Miniforge installer code uses BSD-3-Clause license as stated below.

Binary packages that come with it have their own licensing terms and by installing miniforge you agree to the licensing terms of individual packages as well. They include different OSI-approved licenses including the GNU General Public License and can be found in `pkgs/<pkg-name>/info/licenses` folders.

Miniforge installer comes with a bootstrapping executable that is used when installing miniforge and is deleted after miniforge is installed.

The bootstrapping executable uses micromamba, cli11, cpp-filesystem, curl, c-ares, krb5, libarchive, libev, lz4, nghttp2, openssl, libsolv, nlohmann-json, reproc and zstd which are licensed under BSD-3-Clause, MIT and OpenSSL licenses. Licenses and copyright notices of these projects can be found at the following URL.

<https://github.com/conda-forge/micromamba-feedstock/tree/master/recipe>.

```
=====
=====
```

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CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT  
LIABILITY,  
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF  
THE USE  
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Do you accept the license terms? [yes|no]

>>>

Please answer 'yes' or 'no':

>>>

Please answer 'yes' or 'no':

>>>

Please answer 'yes' or 'no':

>>> yes

Miniforge3 will now be installed into this location:

/root/miniforge3

- Press ENTER to confirm the location
  - Press CTRL-C to abort the installation
  - Or specify a different location below
- Note: environment variables will NOT be expanded.

[/root/miniforge3] >>>

ERROR: File or directory already exists: '/root/miniforge3'

If you want to update an existing installation, use the -u option.

root@iisr-dhai5g01:/usr/local/zed# source ~/.bashrc

root@iisr-dhai5g01:/usr/local/zed# conda info --envs

bash: conda: command not found

```
root@iisr-dhai5g01:/usr/local/zed# cd sonata
root@iisr-dhai5g01:/usr/local/zed/sonata# conda env create -f environment.yml --verbose
bash: conda: command not found
root@iisr-dhai5g01:/usr/local/zed/sonata# # Initialize conda (only needed once)
source /root/miniforge3/etc/profile.d/conda.sh
root@iisr-dhai5g01:/usr/local/zed/sonata# conda --version
conda 25.3.0
root@iisr-dhai5g01:/usr/local/zed/sonata# conda info --envs
```

# conda environments:

#

base                /root/miniforge3

```
root@iisr-dhai5g01:/usr/local/zed/sonata# conda env create -f environment.yml --verbose
```

Channels:

- pytorch
- nvidia/label/cuda-12.4.1
- nvidia
- conda-forge
- defaults

Platform: linux-aarch64

Collecting package metadata (repodata.json): ...working... done

Solving environment: ...working... failed

PackagesNotFoundError: The following packages are not available from current channels:

- pytorch-cuda=12.4

Current channels:

- <https://conda.anaconda.org/pytorch>
- <https://conda.anaconda.org/nvidia/label/cuda-12.4.1>
- <https://conda.anaconda.org/nvidia>
- <https://conda.anaconda.org/conda-forge>
- <https://repo.anaconda.com/pkgs/main>
- <https://repo.anaconda.com/pkgs/r>

To search for alternate channels that may provide the conda package you're looking for, navigate to

<https://anaconda.org>

and use the search bar at the top of the page.

```
root@iisr-dhai5g01:/usr/local/zed/sonata# ^C
root@iisr-dhai5g01:/usr/local/zed/sonata# nano environment.yml
bash: nano: command not found
root@iisr-dhai5g01:/usr/local/zed/sonata# sudo apt install nano
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
  hunspell
The following NEW packages will be installed:
  nano
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 277 kB of archives.
After this operation, 872 kB of additional disk space will be used.
Get:1 http://ports.ubuntu.com/ubuntu-ports jammy-updates/main arm64 nano arm64
6.2-1ubuntu0.1 [277 kB]
Fetched 277 kB in 2s (130 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package nano.
(Reading database ... 53519 files and directories currently installed.)
Preparing to unpack .../nano_6.2-1ubuntu0.1_arm64.deb ...
Unpacking nano (6.2-1ubuntu0.1) ...
Setting up nano (6.2-1ubuntu0.1) ...
update-alternatives: using /bin/nano to provide /usr/bin/editor (editor) in auto mode
update-alternatives: warning: skip creation of /usr/share/man/man1/editor.1.gz because
associated file /usr/share/man/man1/nano.1.gz (of link group editor) doesn't exist
update-alternatives: using /bin/nano to provide /usr/bin/pico (pico) in auto mode
update-alternatives: warning: skip creation of /usr/share/man/man1/pico.1.gz because a
ssociated file /usr/share/man/man1/nano.1.gz (of link group pico) doesn't exist
Processing triggers for man-db (2.10.2-1) ...
root@iisr-dhai5g01:/usr/local/zed/sonata# nano environment.yml
root@iisr-dhai5g01:/usr/local/zed/sonata# nano environment.yml
root@iisr-dhai5g01:/usr/local/zed/sonata# conda env create -f environment.yml --verbose
Channels:
  - conda-forge
  - defaults
Platform: linux-aarch64
Collecting package metadata (repodata.json): ...working... done
Solving environment: ...working... done
```

```
==> WARNING: A newer version of conda exists. <==
current version: 25.3.0
```

latest version: 25.5.1

Please update conda by running

```
$ conda update -n base -c conda-forge conda
```

Preparing transaction: done

Verifying transaction: done

Executing transaction: - By downloading and using the cuSPARSELt conda package, you accept the terms

and conditions of the NVIDIA cuSPARSELt Software License Agreement:

<https://docs.nvidia.com/cuda/cusparselt/license.html>

done

Installing pip dependencies: \ Ran pip subprocess with arguments:

```
['/root/miniforge3/envs/sonata/bin/python', '-m', 'pip', 'install', '-U', '-r',  
'/usr/local/zed/sonata/condaenv.29wxuq4m.requirements.txt', '--exists-action=b']
```

Pip subprocess output:

Collecting git+https://github.com/Dao-AILab/flash-attention.git (from -r  
/usr/local/zed/sonata/condaenv.29wxuq4m.requirements.txt (line 1))

Cloning https://github.com/Dao-AILab/flash-attention.git to /tmp/pip-req-build-kit6hlsu

Resolved https://github.com/Dao-AILab/flash-attention.git to commit

f14dcb1d439a6c43163e288da51dd314632fabde

Preparing metadata (setup.py): started

Preparing metadata (setup.py): finished with status 'done'

Pip subprocess error:

Running command git clone --filter=blob:none --quiet

https://github.com/Dao-AILab/flash-attention.git /tmp/pip-req-build-kit6hlsu

Running command git submodule update --init --recursive -q

ERROR: Could not find a version that satisfies the requirement spconv-cu124 (from versions:  
none)

ERROR: No matching distribution found for spconv-cu124

failed

CondaEnvException: Pip failed

```
root@iisr-dhai5g01:/usr/local/zed/sonata# nano environment.yml
```

```
root@iisr-dhai5g01:/usr/local/zed/sonata# conda env create -f environment.yml --verbose
```

CondaValueError: prefix already exists: /root/miniforge3/envs/sonata

```
root@iisr-dhai5g01:/usr/local/zed/sonata# conda activate sonata
conda env update --file environment.yml --prune
/root/miniforge3/lib/python3.12/argparse.py:1272: FutureWarning: `remote_definition` is
deprecated and will be removed in 25.9. Use `conda env create --file=URL` instead.
  subnamespace, arg_strings = parser.parse_known_args(arg_strings, None)
Channels:
- conda-forge
- defaults
Platform: linux-aarch64
Collecting package metadata (repodata.json): done
Solving environment: done
```

```
==> WARNING: A newer version of conda exists. <==
current version: 25.3.0
latest version: 25.5.1
```

Please update conda by running

```
$ conda update -n base -c conda-forge conda
```

Installing pip dependencies: / \ failed

CondaError: KeyboardInterrupt

```
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# conda env update --file environment.yml
--prune
/root/miniforge3/lib/python3.12/argparse.py:1272: FutureWarning: `remote_definition` is
deprecated and will be removed in 25.9. Use `conda env create --file=URL` instead.
  subnamespace, arg_strings = parser.parse_known_args(arg_strings, None)
Channels:
- conda-forge
- defaults
Platform: linux-aarch64
Collecting package metadata (repodata.json): done
Solving environment: done
```

```
==> WARNING: A newer version of conda exists. <==
current version: 25.3.0
latest version: 25.5.1
```

Please update conda by running

```
$ conda update -n base -c conda-forge conda
```

Installing pip dependencies: / failed

CondaError: KeyboardInterrupt

```
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# conda remove --name sonata --all -y
conda env create -f environment.yml
```

CondaEnvironmentError: Cannot remove current environment. Deactivate and run conda remove again

CondaValueError: prefix already exists: /root/miniforge3/envs/sonata

```
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# deactivate
bash: deactivate: command not found
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# pip install torch==2.2.2+nv24.04
torchvision==0.17.2+nv24.04 torchaudio==2.2.2 --extra-index-url https://pypi.nvidia.com
Looking in indexes: https://pypi.org/simple, https://pypi.nvidia.com
ERROR: Could not find a version that satisfies the requirement torch==2.2.2+nv24.04 (from
versions: 1.10.2, 1.11.0, 1.12.0, 1.12.1, 1.13.0, 1.13.1, 2.0.0, 2.0.1, 2.1.0, 2.1.1, 2.1.2, 2.2.0,
2.2.1, 2.2.2, 2.3.0, 2.3.1, 2.4.0, 2.4.1, 2.5.0, 2.5.1, 2.6.0, 2.7.0, 2.7.1)
ERROR: No matching distribution found for torch==2.2.2+nv24.04
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# conda activate sonata
python -c "import torch; print(torch.__version__)"
2.6.0
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# pip install torch-scatter --find-links
https://data.pyg.org/whl/torch-2.6.0+cu124.html
Looking in links: https://data.pyg.org/whl/torch-2.6.0+cu124.html
Collecting torch-scatter
  Using cached torch_scatter-2.1.2.tar.gz (108 kB)
  Preparing metadata (setup.py) ... done
Building wheels for collected packages: torch-scatter
  DEPRECATION: Building 'torch-scatter' using the legacy setup.py bdist_wheel mechanism,
  which will be removed in a future version. pip 25.3 will enforce this behaviour change. A
  possible replacement is to use the standardized build interface by setting the `--use-pep517`
  option, (possibly combined with `--no-build-isolation`), or adding a `pyproject.toml` file to the
  source tree of 'torch-scatter'. Discussion can be found at
  https://github.com/pypa/pip/issues/6334
  Building wheel for torch-scatter (setup.py) ... ^X^canceled
ERROR: Operation cancelled by user
```

```
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# python setup.py install
/usr/local/zed/sonata/setup.py:17: UserWarning: pkg_resources is deprecated as an API. See
https://setuptools.pypa.io/en/latest/pkg_resources.html. The pkg_resources package is slated
for removal as early as 2025-11-30. Refrain from using this package or pin to Setuptools<81.
  import pkg_resources
running install
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/setuptools/_distutils/cmd.py:90:
SetuptoolsDeprecationWarning: setup.py install is deprecated.
!!
```

\*\*\*\*\*

Please avoid running ``setup.py`` directly.  
Instead, use pypa/build, pypa/installer or other  
standards-based tools.

By 2025-Oct-31, you need to update your project and remove deprecated calls  
or your builds will no longer be supported.

See <https://blog.ganssle.io/articles/2021/10/setup-py-deprecated.html> for details.

\*\*\*\*\*

```
!!
  self.initialize_options()
running build
running build_py
file sonata.py (for module sonata) not found
creating build/lib/sonata
copying sonata/__init__.py -> build/lib/sonata
copying sonata/module.py -> build/lib/sonata
copying sonata/structure.py -> build/lib/sonata
copying sonata/registry.py -> build/lib/sonata
copying sonata/data.py -> build/lib/sonata
copying sonata/transform.py -> build/lib/sonata
copying sonata/utils.py -> build/lib/sonata
copying sonata/model.py -> build/lib/sonata
creating build/lib/sonata/serialization
copying sonata/serialization/__init__.py -> build/lib/sonata/serialization
copying sonata/serialization/default.py -> build/lib/sonata/serialization
copying sonata/serialization/z_order.py -> build/lib/sonata/serialization
copying sonata/serialization/hilbert.py -> build/lib/sonata/serialization
running egg_info
creating sonata.egg-info
writing sonata.egg-info/PKG-INFO
writing dependency_links to sonata.egg-info/dependency_links.txt
```

writing top-level names to sonata.egg-info/top\_level.txt  
writing manifest file 'sonata.egg-info/SOURCES.txt'  
file sonata.py (for module sonata) not found  
reading manifest file 'sonata.egg-info/SOURCES.txt'  
adding license file 'LICENSE'  
writing manifest file 'sonata.egg-info/SOURCES.txt'  
file sonata.py (for module sonata) not found  
running install\_lib  
creating /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
copying build/lib/sonata/\_\_init\_\_.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
copying build/lib/sonata/module.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
copying build/lib/sonata/structure.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
copying build/lib/sonata/registry.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
creating /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization  
copying build/lib/sonata/serialization/\_\_init\_\_.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization  
copying build/lib/sonata/serialization/default.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization  
copying build/lib/sonata/serialization/z\_order.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization  
copying build/lib/sonata/serialization/hilbert.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization  
copying build/lib/sonata/data.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
copying build/lib/sonata/transform.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
copying build/lib/sonata/utils.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
copying build/lib/sonata/model.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
byte-compiling /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/\_\_init\_\_.py to  
\_\_init\_\_.cpython-310.pyc  
byte-compiling /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/module.py to  
module.cpython-310.pyc  
byte-compiling /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/structure.py to  
structure.cpython-310.pyc  
byte-compiling /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/registry.py to  
registry.cpython-310.pyc



```
byte-compiling
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization/__init__.py to
__init__.cpython-310.pyc
byte-compiling
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization/default.py to
default.cpython-310.pyc
byte-compiling
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization/z_order.py to
z_order.cpython-310.pyc
byte-compiling
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization/hilbert.py to
hilbert.cpython-310.pyc
byte-compiling /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/data.py to
data.cpython-310.pyc
byte-compiling /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/transform.py to
transform.cpython-310.pyc
byte-compiling /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/utils.py to
utils.cpython-310.pyc
byte-compiling /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/model.py to
model.cpython-310.pyc
running install_egg_info
Copying sonata.egg-info to
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata-1.0-py3.10.egg-info
running install_scripts
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# pip install -e.
Obtaining file:///usr/local/zed/sonata
  Preparing metadata (setup.py) ... done
Installing collected packages: sonata
  Attempting uninstall: sonata
    Found existing installation: sonata 1.0
    Uninstalling sonata-1.0:
      Successfully uninstalled sonata-1.0
  DEPRECATION: Legacy editable install of sonata==1.0 from file:///usr/local/zed/sonata
  (setup.py develop) is deprecated. pip 25.3 will enforce this behaviour change. A possible
  replacement is to add a pyproject.toml or enable --use-pep517, and use setuptools >= 64. If the
  resulting installation is not behaving as expected, try using --config-settings
  editable_mode=compat. Please consult the setuptools documentation for more information.
  Discussion can be found at https://github.com/pypa/pip/issues/11457
  Running setup.py develop for sonata
Successfully installed sonata-1.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting
behaviour with the system package manager, possibly rendering your system unusable. It is
recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv. Use the
--root-user-action option if you know what you are doing and want to suppress this warning.
```

```

(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# pip install -e . --root-user-action=ignore
Obtaining file:///usr/local/zed/sonata
  Preparing metadata (setup.py) ... done
Installing collected packages: sonata
  Attempting uninstall: sonata
    Found existing installation: sonata 1.0
    Uninstalling sonata-1.0:
      Successfully uninstalled sonata-1.0
  DEPRECATION: Legacy editable install of sonata==1.0 from file:///usr/local/zed/sonata
  (setup.py develop) is deprecated. pip 25.3 will enforce this behaviour change. A possible
  replacement is to add a pyproject.toml or enable --use-pep517, and use setuptools >= 64. If the
  resulting installation is not behaving as expected, try using --config-settings
  editable_mode=compat. Please consult the setuptools documentation for more information.
  Discussion can be found at https://github.com/pypa/pip/issues/11457
  Running setup.py develop for sonata
Successfully installed sonata-1.0
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# pip install -e . --root-user-action=ignore
--use-pep517
Obtaining file:///usr/local/zed/sonata
  Installing build dependencies ... done
  Checking if build backend supports build_editable ... done
  Getting requirements to build editable ... done
  Preparing editable metadata (pyproject.toml) ... done
Building wheels for collected packages: sonata
  Building editable for sonata (pyproject.toml) ... done
  Created wheel for sonata: filename=sonata-1.0-0.editable-py3-none-any.whl size=6766
  sha256=eeaa64f2ff85e16df8e04aabbf8e46fb3924318288fa1b3546d1806aa180331e8
  Stored in directory:
/tmp/pip-ephem-wheel-cache-zbt2vord/wheels/2b/d5/fe/5431ee2c24c7e5c9f136914f9b8d34372
1e244281a74b85475
Successfully built sonata
Installing collected packages: sonata
  Attempting uninstall: sonata
    Found existing installation: sonata 1.0
    Uninstalling sonata-1.0:
      Successfully uninstalled sonata-1.0
Successfully installed sonata-1.0
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# export
PYTHONPATH=$(pwd):$PYTHONPATH
(sonata) intern@dse-MS-7D09:~/Desktop/sonata$ python run_inference_sonata.py --cfg
configs/scannet/sonata.yaml --input zed_output.ply --weights checkpoints/sonata_scannet.pth
--output output
declare -x CONDA_DEFAULT_ENV="sonata"
declare -x CONDA_EXE="/root/miniforge3/bin/conda"

```

```

declare -x CONDA_PREFIX="/root/miniforge3/envs/sonata"
declare -x CONDA_PROMPT_MODIFIER="(sonata) "
declare -x CONDA_PYTHON_EXE="/root/miniforge3/bin/python"
declare -x CONDA_SHLVL="1"
declare -x CUDA_HOME="/usr/local/cuda"
declare -x DEBIAN_FRONTEND="noninteractive"
declare -x DISPLAY=":99"
declare -x GSETTINGS_SCHEMA_DIR="/root/miniforge3/envs/sonata/share/glib-2.0/schemas"
declare -x GSETTINGS_SCHEMA_DIR_CONDA_BACKUP=""
declare -x HOME="/root"
declare -x HOSTNAME="iisr-dhai5g01"
declare -x LD_LIBRARY_PATH="/usr/local/cuda/lib64:"
declare -x LESSCLOSE="/usr/bin/lesspipe %s %s"
declare -x LESSOPEN="| /usr/bin/lesspipe %s"
declare -x LOGNAME="root"
declare -x
LS_COLORS="rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33;01:cd=40;33;01:or=40;31;01:mi=00:su=37;41:sg=30;43:ca=30;41:tw=30;42:ow=34;42:st=37;44:ex=01;32:*.tar=01;31:*.tgz=01;31:*.arc=01;31:*.arj=01;31:*.taz=01;31:*.lha=01;31:*.lz4=01;31:*.lzh=01;31:*.lzma=01;31:*.tlz=01;31:*.txz=01;31:*.tzo=01;31:*.t7z=01;31:*.zip=01;31:*.z=01;31:*.dz=01;31:*.gz=01;31:*.lrz=01;31:*.lz=01;31:*.lzo=01;31:*.xz=01;31:*.zst=01;31:*.tzst=01;31:*.bz2=01;31:*.bz=01;31:*.tbz=01;31:*.tbz2=01;31:*.tz=01;31:*.deb=01;31:*.rpm=01;31:*.jar=01;31:*.war=01;31:*.ear=01;31:*.sar=01;31:*.rar=01;31:*.alz=01;31:*.ace=01;31:*.zoo=01;31:*.cpio=01;31:*.7z=01;31:*.rz=01;31:*.cab=01;31:*.wim=01;31:*.swm=01;31:*.dwm=01;31:*.esd=01;31:*.jpg=01;35:*.jpeg=01;35:*.mjpg=01;35:*.mjpeg=01;35:*.gif=01;35:*.bmp=01;35:*.pbm=01;35:*.pgm=01;35:*.ppm=01;35:*.tga=01;35:*.xbm=01;35:*.xpm=01;35:*.tif=01;35:*.tiff=01;35:*.png=01;35:*.svg=01;35:*.svgz=01;35:*.mng=01;35:*.pcx=01;35:*.mov=01;35:*.mpg=01;35:*.mpeg=01;35:*.m2v=01;35:*.mkv=01;35:*.webm=01;35:*.webp=01;35:*.ogm=01;35:*.mp4=01;35:*.m4v=01;35:*.mp4v=01;35:*.vob=01;35:*.qt=01;35:*.nuv=01;35:*.wmv=01;35:*.asf=01;35:*.rm=01;35:*.rmvb=01;35:*.flc=01;35:*.avi=01;35:*.fli=01;35:*.flv=01;35:*.gl=01;35:*.dl=01;35:*.xcf=01;35:*.xwd=01;35:*.yuv=01;35:*.cgm=01;35:*.emf=01;35:*.ogv=01;35:*.ogx=01;35:*.aac=00;36:*.au=00;36:*.flac=00;36:*.m4a=00;36:*.mid=00;36:*.midi=00;36:*.mka=00;36:*.mp3=00;36:*.mpc=00;36:*.ogg=00;36:*.ra=00;36:*.wav=00;36:*.oga=00;36:*.opus=00;36:*.spx=00;36:*.xspf=00;36:"
declare -x NVIDIA_DRIVER_CAPABILITIES="all"
declare -x NVIDIA_VISIBLE_DEVICES="void"
declare -x OLDPWD="/usr/local/zed"
declare -x
PATH="/root/miniforge3/envs/sonata/bin:/root/miniforge3/condabin:/usr/local/cuda/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
declare -x PROJ_DATA="/root/miniforge3/envs/sonata/share/proj"
declare -x PROJ_NETWORK="ON"
declare -x PWD="/usr/local/zed/sonata"
declare -x SHLVL="1"
declare -x TERM="xterm"

```

```
declare -x XML_CATALOG_FILES="file:///root/miniforge3/envs/sonata/etc/xml/catalog
file:///etc/xml/catalog"
bash: syntax error near unexpected token `intern@dse-MS-7D09:~/Desktop/sonata$'
bash: configs/scannet/sonata.yaml: No such file or directory
bash: --output: command not found
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# python setup.py install
/usr/local/zed/sonata/setup.py:17: UserWarning: pkg_resources is deprecated as an API. See
https://setuptools.pypa.io/en/latest/pkg_resources.html. The pkg_resources package is slated
for removal as early as 2025-11-30. Refrain from using this package or pin to Setuptools<81.
    import pkg_resources
running install
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/setuptools/_distutils/cmd.py:90:
SetuptoolsDeprecationWarning: setup.py install is deprecated.
!!
```

\*\*\*\*\*

Please avoid running ``setup.py`` directly.  
Instead, use pypa/build, pypa/installer or other  
standards-based tools.

By 2025-Oct-31, you need to update your project and remove deprecated calls  
or your builds will no longer be supported.

See <https://blog.ganssle.io/articles/2021/10/setup-py-deprecated.html> for details.

\*\*\*\*\*

```
!!
    self.initialize_options()
running build
running build_py
file sonata.py (for module sonata) not found
copying sonata/__init__.py -> build/lib/sonata
copying sonata/module.py -> build/lib/sonata
copying sonata/structure.py -> build/lib/sonata
copying sonata/registry.py -> build/lib/sonata
copying sonata/data.py -> build/lib/sonata
copying sonata/transform.py -> build/lib/sonata
copying sonata/utils.py -> build/lib/sonata
copying sonata/model.py -> build/lib/sonata
copying sonata/serialization/__init__.py -> build/lib/sonata/serialization
copying sonata/serialization/default.py -> build/lib/sonata/serialization
copying sonata/serialization/z_order.py -> build/lib/sonata/serialization
copying sonata/serialization/hilbert.py -> build/lib/sonata/serialization
running egg_info
```

writing sonata.egg-info/PKG-INFO  
writing dependency\_links to sonata.egg-info/dependency\_links.txt  
writing top-level names to sonata.egg-info/top\_level.txt  
file sonata.py (for module sonata) not found  
reading manifest file 'sonata.egg-info/SOURCES.txt'  
adding license file 'LICENSE'  
writing manifest file 'sonata.egg-info/SOURCES.txt'  
file sonata.py (for module sonata) not found  
running install\_lib  
creating /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
copying build/lib/sonata/\_\_init\_\_.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
copying build/lib/sonata/module.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
copying build/lib/sonata/structure.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
copying build/lib/sonata/registry.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
creating /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization  
copying build/lib/sonata/serialization/\_\_init\_\_.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization  
copying build/lib/sonata/serialization/default.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization  
copying build/lib/sonata/serialization/z\_order.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization  
copying build/lib/sonata/serialization/hilbert.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization  
copying build/lib/sonata/data.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
copying build/lib/sonata/transform.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
copying build/lib/sonata/utils.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
copying build/lib/sonata/model.py ->  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata  
byte-compiling /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/\_\_init\_\_.py to  
\_\_init\_\_.cpython-310.pyc  
byte-compiling /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/module.py to  
module.cpython-310.pyc  
byte-compiling /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/structure.py to  
structure.cpython-310.pyc  
byte-compiling /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/registry.py to  
registry.cpython-310.pyc

```
byte-compiling
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization/__init__.py to
__init__.cpython-310.pyc
byte-compiling
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization/default.py to
default.cpython-310.pyc
byte-compiling
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization/z_order.py to
z_order.cpython-310.pyc
byte-compiling
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/serialization/hilbert.py to
hilbert.cpython-310.pyc
byte-compiling /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/data.py to
data.cpython-310.pyc
byte-compiling /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/transform.py to
transform.cpython-310.pyc
byte-compiling /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/utils.py to
utils.cpython-310.pyc
byte-compiling /root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata/model.py to
model.cpython-310.pyc
running install_egg_info
Copying sonata.egg-info to
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/sonata-1.0-py3.10.egg-info
running install_scripts
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# pip install torch-scatter --find-links
https://data.pyg.org/whl/torch-2.6.0+cu124.html
Looking in links: https://data.pyg.org/whl/torch-2.6.0+cu124.html
Collecting torch-scatter
  Using cached torch_scatter-2.1.2.tar.gz (108 kB)
  Preparing metadata (setup.py) ... done
Building wheels for collected packages: torch-scatter
  DEPRECATION: Building 'torch-scatter' using the legacy setup.py bdist_wheel mechanism,
  which will be removed in a future version. pip 25.3 will enforce this behaviour change. A
  possible replacement is to use the standardized build interface by setting the `--use-pep517`
  option, (possibly combined with `--no-build-isolation`), or adding a `pyproject.toml` file to the
  source tree of 'torch-scatter'. Discussion can be found at
  https://github.com/pypa/pip/issues/6334
  Building wheel for torch-scatter (setup.py) ... ^canceled
ERROR: Operation cancelled by user
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# pip install torch-scatter --find-links
https://data.pyg.org/whl/torch-2.6.0+cu124.html --use-pep517
Looking in links: https://data.pyg.org/whl/torch-2.6.0+cu124.html
Collecting torch-scatter
  Using cached torch_scatter-2.1.2.tar.gz (108 kB)
```

Installing build dependencies ... done  
Getting requirements to build wheel ... error  
error: subprocess-exited-with-error

× Getting requirements to build wheel did not run successfully.

| exit code: 1

└─> [17 lines of output]

Traceback (most recent call last):

File

"/root/miniforge3/envs/sonata/lib/python3.10/site-packages/pip/\_vendor/pyproject\_hooks/\_in\_process/\_in\_process.py", line 389, in <module>

main()

File

"/root/miniforge3/envs/sonata/lib/python3.10/site-packages/pip/\_vendor/pyproject\_hooks/\_in\_process/\_in\_process.py", line 373, in main

json\_out["return\_val"] = hook(\*\*hook\_input["kwargs"])

File

"/root/miniforge3/envs/sonata/lib/python3.10/site-packages/pip/\_vendor/pyproject\_hooks/\_in\_process/\_in\_process.py", line 143, in get\_requires\_for\_build\_wheel

return hook(config\_settings)

File

"/tmp/pip-build-env-n1lnbz5k/overlay/lib/python3.10/site-packages/setuptools/build\_meta.py", line 331, in get\_requires\_for\_build\_wheel

return self.\_get\_build\_requires(config\_settings, requirements=[])

File

"/tmp/pip-build-env-n1lnbz5k/overlay/lib/python3.10/site-packages/setuptools/build\_meta.py", line 301, in \_get\_build\_requires

self.run\_setup()

File

"/tmp/pip-build-env-n1lnbz5k/overlay/lib/python3.10/site-packages/setuptools/build\_meta.py", line 512, in run\_setup

super().run\_setup(setup\_script=setup\_script)

File

"/tmp/pip-build-env-n1lnbz5k/overlay/lib/python3.10/site-packages/setuptools/build\_meta.py", line 317, in run\_setup

exec(code, locals())

File "<string>", line 8, in <module>

ModuleNotFoundError: No module named 'torch'

[end of output]

note: This error originates from a subprocess, and is likely not a problem with pip.  
error: subprocess-exited-with-error

× Getting requirements to build wheel did not run successfully.

| exit code: 1  
└─> See above for output.

note: This error originates from a subprocess, and is likely not a problem with pip.  
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# pip install torch torch-scatter --find-links  
<https://data.pyg.org/whl/torch-2.6.0+cu124.html> --use-pep517  
Looking in links: <https://data.pyg.org/whl/torch-2.6.0+cu124.html>  
Requirement already satisfied: torch in  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages (2.6.0)  
Collecting torch-scatter  
Using cached torch\_scatter-2.1.2.tar.gz (108 kB)  
Installing build dependencies ... done  
Getting requirements to build wheel ... error  
error: subprocess-exited-with-error

× Getting requirements to build wheel did not run successfully.

| exit code: 1  
└─> [17 lines of output]  
Traceback (most recent call last):  
File  
"/root/miniforge3/envs/sonata/lib/python3.10/site-packages/pip/\_vendor/pyproject\_hooks/\_in\_pr  
ocess/\_in\_process.py", line 389, in <module>  
main()  
File  
"/root/miniforge3/envs/sonata/lib/python3.10/site-packages/pip/\_vendor/pyproject\_hooks/\_in\_pr  
ocess/\_in\_process.py", line 373, in main  
json\_out["return\_val"] = hook(\*\*hook\_input["kwargs"])  
File  
"/root/miniforge3/envs/sonata/lib/python3.10/site-packages/pip/\_vendor/pyproject\_hooks/\_in\_pr  
ocess/\_in\_process.py", line 143, in get\_requires\_for\_build\_wheel  
return hook(config\_settings)  
File  
"/tmp/pip-build-env-qlkxe77o/overlay/lib/python3.10/site-packages/setuptools/build\_meta.py",  
line 331, in get\_requires\_for\_build\_wheel  
return self.\_get\_build\_requires(config\_settings, requirements=[])  
File  
"/tmp/pip-build-env-qlkxe77o/overlay/lib/python3.10/site-packages/setuptools/build\_meta.py",  
line 301, in \_get\_build\_requires  
self.run\_setup()  
File  
"/tmp/pip-build-env-qlkxe77o/overlay/lib/python3.10/site-packages/setuptools/build\_meta.py",  
line 512, in run\_setup  
super().run\_setup(setup\_script=setup\_script)



```
File
"/tmp/pip-build-env-qlkxe77o/overlay/lib/python3.10/site-packages/setuptools/build_meta.py",
line 317, in run_setup
    exec(code, locals())
    File "<string>", line 8, in <module>
ModuleNotFoundError: No module named 'torch'
[end of output]
```

note: This error originates from a subprocess, and is likely not a problem with pip.  
error: subprocess-exited-with-error

× Getting requirements to build wheel did not run successfully.  
| exit code: 1  
└> See above for output.

note: This error originates from a subprocess, and is likely not a problem with pip.

(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# pip install torch

Requirement already satisfied: torch in

/root/miniforge3/envs/sonata/lib/python3.10/site-packages (2.6.0)

Requirement already satisfied: filelock in

/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from torch) (3.18.0)

Requirement already satisfied: typing-extensions>=4.10.0 in

/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from torch) (4.14.1)

Requirement already satisfied: sympy!=1.13.2,>=1.13.1 in

/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from torch) (1.14.0)

Requirement already satisfied: networkx in

/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from torch) (3.4.2)

Requirement already satisfied: jinja2 in

/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from torch) (3.1.6)

Requirement already satisfied: fsspec in

/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from torch) (2025.5.1)

Requirement already satisfied: mpmath<1.4,>=1.1.0 in

/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from

sympy!=1.13.2,>=1.13.1->torch) (1.3.0)

Requirement already satisfied: MarkupSafe>=2.0 in

/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from jinja2->torch) (3.0.2)

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager, possibly rendering your system unusable. It is recommended to use a virtual environment instead: <https://pip.pypa.io/warnings/venv>. Use the --root-user-action option if you know what you are doing and want to suppress this warning.

(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# pip install torch-scatter --find-links

<https://data.pyg.org/whl/torch-2.6.0+cu124.html> --use-pep517

Looking in links: <https://data.pyg.org/whl/torch-2.6.0+cu124.html>

Collecting torch-scatter

Using cached torch\_scatter-2.1.2.tar.gz (108 kB)  
Installing build dependencies ... done  
Getting requirements to build wheel ... error  
error: subprocess-exited-with-error

× Getting requirements to build wheel did not run successfully.

| exit code: 1

└─> [17 lines of output]

Traceback (most recent call last):

File

"/root/miniforge3/envs/sonata/lib/python3.10/site-packages/pip/\_vendor/pyproject\_hooks/\_in\_process/\_in\_process.py", line 389, in <module>

main()

File

"/root/miniforge3/envs/sonata/lib/python3.10/site-packages/pip/\_vendor/pyproject\_hooks/\_in\_process/\_in\_process.py", line 373, in main

json\_out["return\_val"] = hook(\*\*hook\_input["kwargs"])

File

"/root/miniforge3/envs/sonata/lib/python3.10/site-packages/pip/\_vendor/pyproject\_hooks/\_in\_process/\_in\_process.py", line 143, in get\_requires\_for\_build\_wheel

return hook(config\_settings)

File

"/tmp/pip-build-env-\_a0hjl4/overlay/lib/python3.10/site-packages/setuptools/build\_meta.py", line 331, in get\_requires\_for\_build\_wheel

return self.\_get\_build\_requires(config\_settings, requirements=[])

File

"/tmp/pip-build-env-\_a0hjl4/overlay/lib/python3.10/site-packages/setuptools/build\_meta.py", line 301, in \_get\_build\_requires

self.run\_setup()

File

"/tmp/pip-build-env-\_a0hjl4/overlay/lib/python3.10/site-packages/setuptools/build\_meta.py", line 512, in run\_setup

super().run\_setup(setup\_script=setup\_script)

File

"/tmp/pip-build-env-\_a0hjl4/overlay/lib/python3.10/site-packages/setuptools/build\_meta.py", line 317, in run\_setup

exec(code, locals())

File "<string>", line 8, in <module>

ModuleNotFoundError: No module named 'torch'

[end of output]

note: This error originates from a subprocess, and is likely not a problem with pip.  
error: subprocess-exited-with-error

× Getting requirements to build wheel did not run successfully.  
| exit code: 1  
└─> See above for output.

note: This error originates from a subprocess, and is likely not a problem with pip.  
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# # Ensure required tools are installed  
conda install -y cmake ninja

# Set correct CUDA arch flags (for Jetson Orin, Ampere: sm\_87)  
export TORCH\_CUDA\_ARCH\_LIST="7.5;8.7"

# Now install torch-scatter from Git  
pip install git+https://github.com/rusty1s/pytorch\_scatter.git  
Channels:  
- conda-forge  
Platform: linux-aarch64  
Collecting package metadata (repodata.json): done  
Solving environment: done

==> WARNING: A newer version of conda exists. <==  
current version: 25.3.0  
latest version: 25.5.1

Please update conda by running

\$ conda update -n base -c conda-forge conda

## Package Plan ##

environment location: /root/miniforge3/envs/sonata

added / updated specs:  
- cmake  
- ninja

The following packages will be downloaded:

package	build
cmake-4.0.3	h0efca9c_0 18.9 MB conda-forge

rrhash-1.4.6		h86ecc28_1	203 KB	conda-forge
--------------	--	------------	--------	-------------

-----  
Total: 19.1 MB

The following NEW packages will be INSTALLED:

cmake	conda-forge/linux-aarch64::cmake-4.0.3-h0efca9c_0
rrhash	conda-forge/linux-aarch64::rrhash-1.4.6-h86ecc28_1

Downloading and Extracting Packages:

Preparing transaction: done

Verifying transaction: done

Executing transaction: done

Collecting git+https://github.com/rusty1s/pytorch\_scatter.git

Cloning https://github.com/rusty1s/pytorch\_scatter.git to /tmp/pip-req-build-zv3gsnkx

Running command git clone --filter=blob:none --quiet

https://github.com/rusty1s/pytorch\_scatter.git /tmp/pip-req-build-zv3gsnkx

Resolved https://github.com/rusty1s/pytorch\_scatter.git to commit

38289bfa4dfd58961ef3cdb3c69ee70ce2bc8890

Installing build dependencies ... done

Getting requirements to build wheel ... done

Preparing metadata (pyproject.toml) ... done

Building wheels for collected packages: torch\_scatter

Building wheel for torch\_scatter (pyproject.toml) ... done

Created wheel for torch\_scatter: filename=torch\_scatter-2.1.2-cp310-cp310-linux\_aarch64.whl  
size=594353

sha256=afeadae459bc3f0cda388a0fb896969075e1931a1dc9023d29f24ab5ed2f0532

Stored in directory:

/tmp/pip-ephem-wheel-cache-6tusay0e/wheels/df/63/e1/e2c0e912f4491cb5fd0a26fa91f58ffb759  
ce71eb2523f2bfa

Successfully built torch\_scatter

Installing collected packages: torch\_scatter

Successfully installed torch\_scatter-2.1.2

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting  
behaviour with the system package manager, possibly rendering your system unusable. It is  
recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv. Use the  
--root-user-action option if you know what you are doing and want to suppress this warning.

(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# (sonata)

intern@dse-MS-7D09:~/Desktop/sonata\$ python run\_inference\_sonata.py

bash: syntax error near unexpected token `intern@dse-MS-7D09:~/Desktop/sonata\$'

(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# ls

```

LICENSE README.md assets build demo environment.yml setup.py sonata
sonata.egg-info
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# docker ps
bash: docker: command not found
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# pip install -e.
Obtaining file:///usr/local/zed/sonata
  Preparing metadata (setup.py) ... done
Installing collected packages: sonata
  Attempting uninstall: sonata
    Found existing installation: sonata 1.0
    Uninstalling sonata-1.0:
      Successfully uninstalled sonata-1.0
  DEPRECATION: Legacy editable install of sonata==1.0 from file:///usr/local/zed/sonata
  (setup.py develop) is deprecated. pip 25.3 will enforce this behaviour change. A possible
  replacement is to add a pyproject.toml or enable --use-pep517, and use setuptools >= 64. If the
  resulting installation is not behaving as expected, try using --config-settings
  editable_mode=compat. Please consult the setuptools documentation for more information.
  Discussion can be found at https://github.com/pypa/pip/issues/11457
  Running setup.py develop for sonata
Successfully installed sonata-1.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting
behaviour with the system package manager, possibly rendering your system unusable. It is
recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv. Use the
--root-user-action option if you know what you are doing and want to suppress this warning.
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# nano zed_sonata_inference.py
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# python zed_sonata_inference.py
Traceback (most recent call last):
  File "/usr/local/zed/sonata/zed_sonata_inference.py", line 5, in <module>
    import sonata
  File "/usr/local/zed/sonata/sonata/__init__.py", line 16, in <module>
    from .model import load
  File "/usr/local/zed/sonata/sonata/model.py", line 31, in <module>
    import spconv.pytorch as spconv
ModuleNotFoundError: No module named 'spconv'
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# git clone
https://github.com/Trinkle23897/spconv.git
cd spconv
git submodule update --init --recursive
python setup.py bdist_wheel
pip install dist/*.whl
Cloning into 'spconv'...
Username for 'https://github.com': ^C
bash: cd: spconv: No such file or directory

```

/usr/local/zed/sonata/setup.py:17: UserWarning: pkg\_resources is deprecated as an API. See [https://setuptools.pypa.io/en/latest/pkg\\_resources.html](https://setuptools.pypa.io/en/latest/pkg_resources.html). The pkg\_resources package is slated for removal as early as 2025-11-30. Refrain from using this package or pin to Setuptools<81.

```
import pkg_resources
running bdist_wheel
running build
running build_py
file sonata.py (for module sonata) not found
copying sonata/__init__.py -> build/lib/sonata
copying sonata/module.py -> build/lib/sonata
copying sonata/structure.py -> build/lib/sonata
copying sonata/registry.py -> build/lib/sonata
copying sonata/data.py -> build/lib/sonata
copying sonata/transform.py -> build/lib/sonata
copying sonata/utils.py -> build/lib/sonata
copying sonata/model.py -> build/lib/sonata
copying sonata/serialization/__init__.py -> build/lib/sonata/serialization
copying sonata/serialization/default.py -> build/lib/sonata/serialization
copying sonata/serialization/z_order.py -> build/lib/sonata/serialization
copying sonata/serialization/hilbert.py -> build/lib/sonata/serialization
running egg_info
writing sonata.egg-info/PKG-INFO
writing dependency_links to sonata.egg-info/dependency_links.txt
writing top-level names to sonata.egg-info/top_level.txt
file sonata.py (for module sonata) not found
reading manifest file 'sonata.egg-info/SOURCES.txt'
adding license file 'LICENSE'
writing manifest file 'sonata.egg-info/SOURCES.txt'
file sonata.py (for module sonata) not found
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/setuptools/_distutils/cmd.py:90:
SetuptoolsDeprecationWarning: setup.py install is deprecated.
!!
```

\*\*\*\*\*

Please avoid running ``setup.py`` directly.  
Instead, use pypa/build, pypa/installer or other  
standards-based tools.

By 2025-Oct-31, you need to update your project and remove deprecated calls  
or your builds will no longer be supported.

See <https://blog.ganssle.io/articles/2021/10/setup-py-deprecated.html> for details.

\*\*\*\*\*

!!

```
self.initialize_options()
installing to build/bdist.linux-aarch64/wheel
running install
running install_lib
creating build/bdist.linux-aarch64/wheel
creating build/bdist.linux-aarch64/wheel/sonata
copying build/lib/sonata/__init__.py -> build/bdist.linux-aarch64/wheel/./sonata
copying build/lib/sonata/module.py -> build/bdist.linux-aarch64/wheel/./sonata
copying build/lib/sonata/structure.py -> build/bdist.linux-aarch64/wheel/./sonata
copying build/lib/sonata/registry.py -> build/bdist.linux-aarch64/wheel/./sonata
creating build/bdist.linux-aarch64/wheel/sonata/serialization
copying build/lib/sonata/serialization/__init__.py ->
build/bdist.linux-aarch64/wheel/./sonata/serialization
copying build/lib/sonata/serialization/default.py ->
build/bdist.linux-aarch64/wheel/./sonata/serialization
copying build/lib/sonata/serialization/z_order.py ->
build/bdist.linux-aarch64/wheel/./sonata/serialization
copying build/lib/sonata/serialization/hilbert.py ->
build/bdist.linux-aarch64/wheel/./sonata/serialization
copying build/lib/sonata/data.py -> build/bdist.linux-aarch64/wheel/./sonata
copying build/lib/sonata/transform.py -> build/bdist.linux-aarch64/wheel/./sonata
copying build/lib/sonata/utils.py -> build/bdist.linux-aarch64/wheel/./sonata
copying build/lib/sonata/model.py -> build/bdist.linux-aarch64/wheel/./sonata
running install_egg_info
Copying sonata.egg-info to build/bdist.linux-aarch64/wheel/./sonata-1.0-py3.10.egg-info
running install_scripts
creating build/bdist.linux-aarch64/wheel/sonata-1.0.dist-info/WHEEL
creating 'dist/sonata-1.0-py3-none-any.whl' and adding 'build/bdist.linux-aarch64/wheel' to it
adding 'sonata/__init__.py'
adding 'sonata/data.py'
adding 'sonata/model.py'
adding 'sonata/module.py'
adding 'sonata/registry.py'
adding 'sonata/structure.py'
adding 'sonata/transform.py'
adding 'sonata/utils.py'
adding 'sonata/serialization/__init__.py'
adding 'sonata/serialization/default.py'
adding 'sonata/serialization/hilbert.py'
adding 'sonata/serialization/z_order.py'
adding 'sonata-1.0.dist-info/licenses/LICENSE'
adding 'sonata-1.0.dist-info/METADATA'
adding 'sonata-1.0.dist-info/WHEEL'
```

```
adding 'sonata-1.0.dist-info/top_level.txt'
adding 'sonata-1.0.dist-info/RECORD'
removing build/bdist.linux-aarch64/wheel
Processing ./dist/sonata-1.0-py3-none-any.whl
Installing collected packages: sonata
  Attempting uninstall: sonata
    Found existing installation: sonata 1.0
    Uninstalling sonata-1.0:
      Successfully uninstalled sonata-1.0
Successfully installed sonata-1.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting
behaviour with the system package manager, possibly rendering your system unusable. It is
recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv. Use the
--root-user-action option if you know what you are doing and want to suppress this warning.
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# python zed_sonata_inference.py
Traceback (most recent call last):
  File "/usr/local/zed/sonata/zed_sonata_inference.py", line 5, in <module>
    import sonata
  File "/usr/local/zed/sonata/sonata/__init__.py", line 16, in <module>
    from .model import load
  File "/usr/local/zed/sonata/sonata/model.py", line 31, in <module>
    import spconv.pytorch as spconv
ModuleNotFoundError: No module named 'spconv'
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# pip install wheel ninja cmake scikit-build
Requirement already satisfied: wheel in
/root/miniforge3/envs/sonata/lib/python3.10/site-packages (0.45.1)
Collecting ninja
  Using cached
ninja-1.11.1.4-py3-none-manylinux_2_17_aarch64.manylinux2014_aarch64.whl.metadata (5.0
kB)
Collecting cmake
  Downloading
cmake-4.0.3-py3-none-manylinux_2_17_aarch64.manylinux2014_aarch64.whl.metadata (6.3
kB)
Collecting scikit-build
  Downloading scikit_build-0.18.1-py3-none-any.whl.metadata (18 kB)
Collecting distro (from scikit-build)
  Downloading distro-1.9.0-py3-none-any.whl.metadata (6.8 kB)
Requirement already satisfied: packaging in
/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from scikit-build) (25.0)
Requirement already satisfied: setuptools>=42.0.0 in
/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from scikit-build) (80.9.0)
Collecting tomli (from scikit-build)
  Downloading tomli-2.2.1-py3-none-any.whl.metadata (10 kB)
```



Using cached ninja-1.11.1.4-py3-none-manylinux\_2\_17\_aarch64.manylinux2014\_aarch64.whl (156 kB)

Downloading cmake-4.0.3-py3-none-manylinux\_2\_17\_aarch64.manylinux2014\_aarch64.whl (27.3 MB)

---

27.3/27.3 MB 3.5 MB/s eta 0:00:00

Downloading scikit\_build-0.18.1-py3-none-any.whl (85 kB)

Downloading distro-1.9.0-py3-none-any.whl (20 kB)

Downloading tomli-2.2.1-py3-none-any.whl (14 kB)

Installing collected packages: tomli, ninja, distro, cmake, scikit-build

Successfully installed cmake-4.0.3 distro-1.9.0 ninja-1.11.1.4 scikit-build-0.18.1 tomli-2.2.1

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager, possibly rendering your system unusable. It is recommended to use a virtual environment instead: <https://pip.pypa.io/warnings/venv>. Use the --root-user-action option if you know what you are doing and want to suppress this warning.

(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# pip install . --use-pep517

Processing /usr/local/zed/sonata

Installing build dependencies ... done

Getting requirements to build wheel ... done

Preparing metadata (pyproject.toml) ... done

Building wheels for collected packages: sonata

Building wheel for sonata (pyproject.toml) ... done

Created wheel for sonata: filename=sonata-1.0-py3-none-any.whl size=38309

sha256=5c396d7ff3dc2010daa7511628ae8c88b9b4dde8b18ca793d1af79851c68757a

Stored in directory:

/tmp/pip-ephem-wheel-cache-vpev9eib/wheels/2b/d5/fe/5431ee2c24c7e5c9f136914f9b8d343721e244281a74b85475

Successfully built sonata

Installing collected packages: sonata

Attempting uninstall: sonata

Found existing installation: sonata 1.0

Uninstalling sonata-1.0:

Successfully uninstalled sonata-1.0

Successfully installed sonata-1.0

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager, possibly rendering your system unusable. It is recommended to use a virtual environment instead: <https://pip.pypa.io/warnings/venv>. Use the --root-user-action option if you know what you are doing and want to suppress this warning.

(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# python setup.py bdist\_wheel

pip install dist/\*.whl

/usr/local/zed/sonata/setup.py:17: UserWarning: pkg\_resources is deprecated as an API. See [https://setuptools.pypa.io/en/latest/pkg\\_resources.html](https://setuptools.pypa.io/en/latest/pkg_resources.html). The pkg\_resources package is slated for removal as early as 2025-11-30. Refrain from using this package or pin to Setuptools<81.

import pkg\_resources

```
running bdist_wheel
running build
running build_py
file sonata.py (for module sonata) not found
copying sonata/__init__.py -> build/lib/sonata
copying sonata/module.py -> build/lib/sonata
copying sonata/structure.py -> build/lib/sonata
copying sonata/registry.py -> build/lib/sonata
copying sonata/data.py -> build/lib/sonata
copying sonata/transform.py -> build/lib/sonata
copying sonata/utils.py -> build/lib/sonata
copying sonata/model.py -> build/lib/sonata
copying sonata/serialization/__init__.py -> build/lib/sonata/serialization
copying sonata/serialization/default.py -> build/lib/sonata/serialization
copying sonata/serialization/z_order.py -> build/lib/sonata/serialization
copying sonata/serialization/hilbert.py -> build/lib/sonata/serialization
running egg_info
writing sonata.egg-info/PKG-INFO
writing dependency_links to sonata.egg-info/dependency_links.txt
writing top-level names to sonata.egg-info/top_level.txt
file sonata.py (for module sonata) not found
reading manifest file 'sonata.egg-info/SOURCES.txt'
adding license file 'LICENSE'
writing manifest file 'sonata.egg-info/SOURCES.txt'
file sonata.py (for module sonata) not found
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/setuptools/_distutils/cmd.py:90:
SetuptoolsDeprecationWarning: setup.py install is deprecated.
!!
```

\*\*\*\*\*

Please avoid running ``setup.py`` directly.  
Instead, use pypa/build, pypa/installer or other  
standards-based tools.

By 2025-Oct-31, you need to update your project and remove deprecated calls  
or your builds will no longer be supported.

See <https://blog.ganssle.io/articles/2021/10/setup-py-deprecated.html> for details.

\*\*\*\*\*

```
!!
self.initialize_options()
installing to build/bdist.linux-aarch64/wheel
running install
```

```
running install_lib
creating build/bdist.linux-aarch64/wheel
creating build/bdist.linux-aarch64/wheel/sonata
copying build/lib/sonata/__init__.py -> build/bdist.linux-aarch64/wheel/./sonata
copying build/lib/sonata/module.py -> build/bdist.linux-aarch64/wheel/./sonata
copying build/lib/sonata/structure.py -> build/bdist.linux-aarch64/wheel/./sonata
copying build/lib/sonata/registry.py -> build/bdist.linux-aarch64/wheel/./sonata
creating build/bdist.linux-aarch64/wheel/sonata/serialization
copying build/lib/sonata/serialization/__init__.py ->
build/bdist.linux-aarch64/wheel/./sonata/serialization
copying build/lib/sonata/serialization/default.py ->
build/bdist.linux-aarch64/wheel/./sonata/serialization
copying build/lib/sonata/serialization/z_order.py ->
build/bdist.linux-aarch64/wheel/./sonata/serialization
copying build/lib/sonata/serialization/hilbert.py ->
build/bdist.linux-aarch64/wheel/./sonata/serialization
copying build/lib/sonata/data.py -> build/bdist.linux-aarch64/wheel/./sonata
copying build/lib/sonata/transform.py -> build/bdist.linux-aarch64/wheel/./sonata
copying build/lib/sonata/utils.py -> build/bdist.linux-aarch64/wheel/./sonata
copying build/lib/sonata/model.py -> build/bdist.linux-aarch64/wheel/./sonata
running install_egg_info
Copying sonata.egg-info to build/bdist.linux-aarch64/wheel/./sonata-1.0-py3.10.egg-info
running install_scripts
creating build/bdist.linux-aarch64/wheel/sonata-1.0.dist-info/WHEEL
creating 'dist/sonata-1.0-py3-none-any.whl' and adding 'build/bdist.linux-aarch64/wheel' to it
adding 'sonata/__init__.py'
adding 'sonata/data.py'
adding 'sonata/model.py'
adding 'sonata/module.py'
adding 'sonata/registry.py'
adding 'sonata/structure.py'
adding 'sonata/transform.py'
adding 'sonata/utils.py'
adding 'sonata/serialization/__init__.py'
adding 'sonata/serialization/default.py'
adding 'sonata/serialization/hilbert.py'
adding 'sonata/serialization/z_order.py'
adding 'sonata-1.0.dist-info/licenses/LICENSE'
adding 'sonata-1.0.dist-info/METADATA'
adding 'sonata-1.0.dist-info/WHEEL'
adding 'sonata-1.0.dist-info/top_level.txt'
adding 'sonata-1.0.dist-info/RECORD'
removing build/bdist.linux-aarch64/wheel
Processing ./dist/sonata-1.0-py3-none-any.whl
```

sonata is already installed with the same version as the provided wheel. Use --force-reinstall to force an installation of the wheel.

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager, possibly rendering your system unusable. It is recommended to use a virtual environment instead: <https://pip.pypa.io/warnings/venv>. Use the --root-user-action option if you know what you are doing and want to suppress this warning.

```
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# pip install
```

```
git+https://github.com/traveller59/spconv
```

```
Collecting git+https://github.com/traveller59/spconv
```

```
Cloning https://github.com/traveller59/spconv to /tmp/pip-req-build-w146ltyz
```

```
Running command git clone --filter=blob:none --quiet https://github.com/traveller59/spconv
/tmp/pip-req-build-w146ltyz
```

```
Resolved https://github.com/traveller59/spconv to commit
263d6b47425ef843c82f997b12d8b714013d216c
```

```
Running command git submodule update --init --recursive -q
```

```
Installing build dependencies ... error
```

```
error: subprocess-exited-with-error
```

× pip subprocess to install build dependencies did not run successfully.

| exit code: 1

└─> [8 lines of output]

```
Collecting setuptools>=41.0
```

```
Using cached setuptools-80.9.0-py3-none-any.whl.metadata (6.6 kB)
```

```
Collecting wheel
```

```
Downloading wheel-0.45.1-py3-none-any.whl.metadata (2.3 kB)
```

```
Collecting pccm>=0.4.16
```

```
Downloading pccm-0.4.16-py3-none-any.whl.metadata (1.1 kB)
```

```
ERROR: Could not find a version that satisfies the requirement cumm>=0.7.11 (from
versions: 0.1.0)
```

```
ERROR: No matching distribution found for cumm>=0.7.11
```

```
[end of output]
```

note: This error originates from a subprocess, and is likely not a problem with pip.  
error: subprocess-exited-with-error

× pip subprocess to install build dependencies did not run successfully.

| exit code: 1

└─> See above for output.

note: This error originates from a subprocess, and is likely not a problem with pip.

```
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# python -c "import spconv.pytorch;
print(spconv.__version__)"
```

```
Traceback (most recent call last):
```

```
File "<string>", line 1, in <module>
```

```

ModuleNotFoundError: No module named 'spconv'
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# pip install spconv-cu113==2.3.6
--extra-index-url https://pypi.nvidia.com
Looking in indexes: https://pypi.org/simple, https://pypi.nvidia.com
ERROR: Could not find a version that satisfies the requirement spconv-cu113==2.3.6 (from
versions: none)
ERROR: No matching distribution found for spconv-cu113==2.3.6
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# pip install spconv-cu124
ERROR: Could not find a version that satisfies the requirement spconv-cu124 (from versions:
none)
ERROR: No matching distribution found for spconv-cu124
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata# git clone
https://github.com/traveller59/spconv.git
cd spconv
Cloning into 'spconv'...
remote: Enumerating objects: 3162, done.
remote: Counting objects: 100% (695/695), done.
remote: Compressing objects: 100% (152/152), done.
remote: Total 3162 (delta 602), reused 543 (delta 543), pack-reused 2467 (from 2)
Receiving objects: 100% (3162/3162), 6.60 MiB | 4.35 MiB/s, done.
Resolving deltas: 100% (2084/2084), done.
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata/spconv# git checkout v2.3.6
git submodule update --init --recursive
Note: switching to 'v2.3.6'.

```

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by switching back to a branch.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using -c with the switch command. Example:

```
git switch -c <new-branch-name>
```

Or undo this operation with:

```
git switch -
```

Turn off this advice by setting config variable advice.detachedHead to false

```

HEAD is now at 125a194 fix #570 cpu package CI bug
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata/spconv# python setup.py bdist_wheel
pip install dist/*.whl
Traceback (most recent call last):

```

```
File "/usr/local/zed/sonata/spconv/setup.py", line 15, in <module>
    import pccm
ModuleNotFoundError: No module named 'pccm'
WARNING: Requirement 'dist/*.whl' looks like a filename, but the file does not exist
ERROR: Invalid wheel filename (wrong number of parts): '*'
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata/spconv# pip install pccm
Collecting pccm
  Using cached pccm-0.4.16-py3-none-any.whl.metadata (1.1 kB)
Collecting ccimport>=0.3.1 (from pccm)
  Downloading ccimport-0.4.4-py3-none-any.whl.metadata (1.4 kB)
Requirement already satisfied: pybind11>=2.6.0 in
/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from pccm) (2.13.6)
Collecting fire (from pccm)
  Downloading fire-0.7.0.tar.gz (87 kB)
  Preparing metadata (setup.py) ... done
Collecting lark>=1.0.0 (from pccm)
  Downloading lark-1.2.2-py3-none-any.whl.metadata (1.8 kB)
Collecting portalocker>=2.3.2 (from pccm)
  Downloading portalocker-3.2.0-py3-none-any.whl.metadata (8.7 kB)
Requirement already satisfied: ninja in
/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from ccimport>=0.3.1->pccm)
(1.11.1.4)
Requirement already satisfied: requests in
/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from ccimport>=0.3.1->pccm)
(2.32.4)
Collecting termcolor (from fire->pccm)
  Downloading termcolor-3.1.0-py3-none-any.whl.metadata (6.4 kB)
Requirement already satisfied: charset_normalizer<4,>=2 in
/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from
requests->ccimport>=0.3.1->pccm) (3.4.2)
Requirement already satisfied: idna<4,>=2.5 in
/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from
requests->ccimport>=0.3.1->pccm) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from
requests->ccimport>=0.3.1->pccm) (2.5.0)
Requirement already satisfied: certifi>=2017.4.17 in
/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from
requests->ccimport>=0.3.1->pccm) (2025.6.15)
Downloading pccm-0.4.16-py3-none-any.whl (73 kB)
Downloading ccimport-0.4.4-py3-none-any.whl (27 kB)
Downloading lark-1.2.2-py3-none-any.whl (111 kB)
Downloading portalocker-3.2.0-py3-none-any.whl (22 kB)
Downloading termcolor-3.1.0-py3-none-any.whl (7.7 kB)
```

Building wheels for collected packages: fire

DEPRECATION: Building 'fire' using the legacy setup.py bdist\_wheel mechanism, which will be removed in a future version. pip 25.3 will enforce this behaviour change. A possible replacement is to use the standardized build interface by setting the `--use-pep517` option, (possibly combined with `--no-build-isolation`), or adding a `pyproject.toml` file to the source tree of 'fire'. Discussion can be found at <https://github.com/pypa/pip/issues/6334>

Building wheel for fire (setup.py) ... done

Created wheel for fire: filename=fire-0.7.0-py3-none-any.whl size=114330  
sha256=ddebbe21a61c5dc3583d4910b39a27dc178bf679040eb5fb4217f568358431ac

Stored in directory:

/root/.cache/pip/wheels/19/39/2f/2d3cad408a8804103f1c34ddd4b9f6a93497b11fa96fe738e

Successfully built fire

Installing collected packages: termcolor, portalocker, lark, fire, ccimport, pccm

Successfully installed ccimport-0.4.4 fire-0.7.0 lark-1.2.2 pccm-0.4.16 portalocker-3.2.0  
termcolor-3.1.0

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager, possibly rendering your system unusable. It is recommended to use a virtual environment instead: <https://pip.pypa.io/warnings/venv>. Use the --root-user-action option if you know what you are doing and want to suppress this warning.

(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata/spconv# python setup.py bdist\_wheel

/root/miniforge3/envs/sonata/lib/python3.10/site-packages/setuptools/dist.py:759:

SetuptoolsDeprecationWarning: License classifiers are deprecated.

!!

\*\*\*\*\*

Please consider removing the following classifiers in favor of a SPDX license expression:

License :: OSI Approved :: Apache Software License

See <https://packaging.python.org/en/latest/guides/writing-pyproject-toml/#license> for details.

\*\*\*\*\*

!!

```
self._finalize_license_expression()
running bdist_wheel
running build
running build_py
creating build/lib/spconv
copying spconv/__init__.py -> build/lib/spconv
copying spconv/constants.py -> build/lib/spconv
copying spconv/algocore.py -> build/lib/spconv
copying spconv/cppconstants.py -> build/lib/spconv
copying spconv/test_utils.py -> build/lib/spconv
```

copying spconv/core.py -> build/lib/spconv  
copying spconv/debug\_utils.py -> build/lib/spconv  
copying spconv/\_\_version\_\_.py -> build/lib/spconv  
copying spconv/tools.py -> build/lib/spconv  
copying spconv/build.py -> build/lib/spconv  
copying spconv/algo.py -> build/lib/spconv  
creating build/lib/spconv/gencode  
copying spconv/gencode/\_\_init\_\_.py -> build/lib/spconv/gencode  
copying spconv/gencode/\_\_main\_\_.py -> build/lib/spconv/gencode  
creating build/lib/spconv/csrc  
copying spconv/csrc/\_\_init\_\_.py -> build/lib/spconv/csrc  
creating build/lib/spconv/utils  
copying spconv/utils/\_\_init\_\_.py -> build/lib/spconv/utils  
creating build/lib/spconv/pytorch  
copying spconv/pytorch/functional.py -> build/lib/spconv/pytorch  
copying spconv/pytorch/\_\_init\_\_.py -> build/lib/spconv/pytorch  
copying spconv/pytorch/constants.py -> build/lib/spconv/pytorch  
copying spconv/pytorch/interpreter.py -> build/lib/spconv/pytorch  
copying spconv/pytorch/pool.py -> build/lib/spconv/pytorch  
copying spconv/pytorch/core.py -> build/lib/spconv/pytorch  
copying spconv/pytorch/hash.py -> build/lib/spconv/pytorch  
copying spconv/pytorch/ops.py -> build/lib/spconv/pytorch  
copying spconv/pytorch/conv.py -> build/lib/spconv/pytorch  
copying spconv/pytorch/tables.py -> build/lib/spconv/pytorch  
copying spconv/pytorch/identity.py -> build/lib/spconv/pytorch  
copying spconv/pytorch/spatial.py -> build/lib/spconv/pytorch  
copying spconv/pytorch/utils.py -> build/lib/spconv/pytorch  
copying spconv/pytorch/modules.py -> build/lib/spconv/pytorch  
copying spconv/pytorch/cppcore.py -> build/lib/spconv/pytorch  
creating build/lib/spconv/benchmark  
copying spconv/benchmark/\_\_init\_\_.py -> build/lib/spconv/benchmark  
copying spconv/benchmark/core.py -> build/lib/spconv/benchmark  
copying spconv/benchmark/\_\_main\_\_.py -> build/lib/spconv/benchmark  
copying spconv/benchmark/basic.py -> build/lib/spconv/benchmark  
creating build/lib/spconv/csrc/hash  
copying spconv/csrc/hash/\_\_init\_\_.py -> build/lib/spconv/csrc/hash  
copying spconv/csrc/hash/core.py -> build/lib/spconv/csrc/hash  
creating build/lib/spconv/csrc/sparse  
copying spconv/csrc/sparse/all.py -> build/lib/spconv/csrc/sparse  
copying spconv/csrc/sparse/indices.py -> build/lib/spconv/csrc/sparse  
copying spconv/csrc/sparse/\_\_init\_\_.py -> build/lib/spconv/csrc/sparse  
copying spconv/csrc/sparse/maxpool.py -> build/lib/spconv/csrc/sparse  
copying spconv/csrc/sparse/alloc.py -> build/lib/spconv/csrc/sparse  
copying spconv/csrc/sparse/inference.py -> build/lib/spconv/csrc/sparse



copying spconv/csrc/sparse/convops.py -> build/lib/spconv/csrc/sparse  
copying spconv/csrc/sparse/gather.py -> build/lib/spconv/csrc/sparse  
copying spconv/csrc/sparse/pointops.py -> build/lib/spconv/csrc/sparse  
copying spconv/csrc/sparse/cpu\_core.py -> build/lib/spconv/csrc/sparse  
creating build/lib/spconv/csrc/Utils  
copying spconv/csrc/Utils/\_\_init\_\_.py -> build/lib/spconv/csrc/Utils  
copying spconv/csrc/Utils/launch.py -> build/lib/spconv/csrc/Utils  
copying spconv/csrc/Utils/boxops.py -> build/lib/spconv/csrc/Utils  
copying spconv/csrc/Utils/pcc.py -> build/lib/spconv/csrc/Utils  
creating build/lib/spconv/pytorch/quantization  
copying spconv/pytorch/quantization/\_\_init\_\_.py -> build/lib/spconv/pytorch/quantization  
copying spconv/pytorch/quantization/fuse\_mapping.py -> build/lib/spconv/pytorch/quantization  
copying spconv/pytorch/quantization/interpreter.py -> build/lib/spconv/pytorch/quantization  
copying spconv/pytorch/quantization/fake\_q.py -> build/lib/spconv/pytorch/quantization  
copying spconv/pytorch/quantization/core.py -> build/lib/spconv/pytorch/quantization  
copying spconv/pytorch/quantization/qmapping.py -> build/lib/spconv/pytorch/quantization  
copying spconv/pytorch/quantization/graph.py -> build/lib/spconv/pytorch/quantization  
copying spconv/pytorch/quantization/backend\_cfg.py -> build/lib/spconv/pytorch/quantization  
copying spconv/pytorch/quantization/Utils.py -> build/lib/spconv/pytorch/quantization  
copying spconv/pytorch/quantization/modules.py -> build/lib/spconv/pytorch/quantization  
creating build/lib/spconv/pytorch/quantization/quantized  
copying spconv/pytorch/quantization/quantized/\_\_init\_\_.py ->  
build/lib/spconv/pytorch/quantization/quantized  
copying spconv/pytorch/quantization/quantized/conv.py ->  
build/lib/spconv/pytorch/quantization/quantized  
copying spconv/pytorch/quantization/quantized/reference.py ->  
build/lib/spconv/pytorch/quantization/quantized  
creating build/lib/spconv/pytorch/quantization/intrinsic  
copying spconv/pytorch/quantization/intrinsic/\_\_init\_\_.py ->  
build/lib/spconv/pytorch/quantization/intrinsic  
copying spconv/pytorch/quantization/intrinsic/modules.py ->  
build/lib/spconv/pytorch/quantization/intrinsic  
creating build/lib/spconv/pytorch/quantization/intrinsic/quantized  
copying spconv/pytorch/quantization/intrinsic/quantized/\_\_init\_\_.py ->  
build/lib/spconv/pytorch/quantization/intrinsic/quantized  
copying spconv/pytorch/quantization/intrinsic/quantized/conv\_relu.py ->  
build/lib/spconv/pytorch/quantization/intrinsic/quantized  
creating build/lib/spconv/pytorch/quantization/intrinsic/qat  
copying spconv/pytorch/quantization/intrinsic/qat/\_\_init\_\_.py ->  
build/lib/spconv/pytorch/quantization/intrinsic/qat  
copying spconv/pytorch/quantization/intrinsic/qat/modules.py ->  
build/lib/spconv/pytorch/quantization/intrinsic/qat  
running egg\_info  
creating spconv.egg-info

writing spconv.egg-info/PKG-INFO  
writing dependency\_links to spconv.egg-info/dependency\_links.txt  
writing requirements to spconv.egg-info/requirements.txt  
writing top-level names to spconv.egg-info/top\_level.txt  
writing manifest file 'spconv.egg-info/SOURCES.txt'  
reading manifest file 'spconv.egg-info/SOURCES.txt'  
adding license file 'LICENSE'  
writing manifest file 'spconv.egg-info/SOURCES.txt'  
/root/miniforge3/envs/sonata/lib/python3.10/site-packages/setuptools/\_distutils/cmd.py:90:  
SetuptoolsDeprecationWarning: setup.py install is deprecated.  
!!

\*\*\*\*\*

Please avoid running ``setup.py`` directly.  
Instead, use pypa/build, pypa/installer or other  
standards-based tools.

By 2025-Oct-31, you need to update your project and remove deprecated calls  
or your builds will no longer be supported.

See <https://blog.ganssle.io/articles/2021/10/setup-py-deprecated.html> for details.

\*\*\*\*\*

!!

self.initialize\_options()  
installing to build/bdist.linux-aarch64/wheel  
running install  
running install\_lib  
creating build/bdist.linux-aarch64/wheel  
creating build/bdist.linux-aarch64/wheel/spconv  
copying build/lib/spconv/\_\_init\_\_.py -> build/bdist.linux-aarch64/wheel/./spconv  
copying build/lib/spconv/constants.py -> build/bdist.linux-aarch64/wheel/./spconv  
copying build/lib/spconv/algocore.py -> build/bdist.linux-aarch64/wheel/./spconv  
copying build/lib/spconv/cppconstants.py -> build/bdist.linux-aarch64/wheel/./spconv  
copying build/lib/spconv/test\_utils.py -> build/bdist.linux-aarch64/wheel/./spconv  
copying build/lib/spconv/core.py -> build/bdist.linux-aarch64/wheel/./spconv  
creating build/bdist.linux-aarch64/wheel/spconv/gencode  
copying build/lib/spconv/gencode/\_\_init\_\_.py ->  
build/bdist.linux-aarch64/wheel/./spconv/gencode  
copying build/lib/spconv/gencode/\_\_main\_\_.py ->  
build/bdist.linux-aarch64/wheel/./spconv/gencode  
copying build/lib/spconv/debug\_utils.py -> build/bdist.linux-aarch64/wheel/./spconv  
creating build/bdist.linux-aarch64/wheel/spconv/csrc  
copying build/lib/spconv/csrc/\_\_init\_\_.py -> build/bdist.linux-aarch64/wheel/./spconv/csrc

creating build/bdist.linux-aarch64/wheel/spconv/csrc/hash  
copying build/lib/spconv/csrc/hash/\_\_init\_\_.py ->  
build/bdist.linux-aarch64/wheel/./spconv/csrc/hash  
copying build/lib/spconv/csrc/hash/core.py -> build/bdist.linux-aarch64/wheel/./spconv/csrc/hash  
creating build/bdist.linux-aarch64/wheel/spconv/csrc/sparse  
copying build/lib/spconv/csrc/sparse/all.py ->  
build/bdist.linux-aarch64/wheel/./spconv/csrc/sparse  
copying build/lib/spconv/csrc/sparse/indices.py ->  
build/bdist.linux-aarch64/wheel/./spconv/csrc/sparse  
copying build/lib/spconv/csrc/sparse/\_\_init\_\_.py ->  
build/bdist.linux-aarch64/wheel/./spconv/csrc/sparse  
copying build/lib/spconv/csrc/sparse/maxpool.py ->  
build/bdist.linux-aarch64/wheel/./spconv/csrc/sparse  
copying build/lib/spconv/csrc/sparse/alloc.py ->  
build/bdist.linux-aarch64/wheel/./spconv/csrc/sparse  
copying build/lib/spconv/csrc/sparse/inference.py ->  
build/bdist.linux-aarch64/wheel/./spconv/csrc/sparse  
copying build/lib/spconv/csrc/sparse/convops.py ->  
build/bdist.linux-aarch64/wheel/./spconv/csrc/sparse  
copying build/lib/spconv/csrc/sparse/gather.py ->  
build/bdist.linux-aarch64/wheel/./spconv/csrc/sparse  
copying build/lib/spconv/csrc/sparse/pointops.py ->  
build/bdist.linux-aarch64/wheel/./spconv/csrc/sparse  
copying build/lib/spconv/csrc/sparse/cpu\_core.py ->  
build/bdist.linux-aarch64/wheel/./spconv/csrc/sparse  
creating build/bdist.linux-aarch64/wheel/spconv/csrc/utils  
copying build/lib/spconv/csrc/utils/\_\_init\_\_.py ->  
build/bdist.linux-aarch64/wheel/./spconv/csrc/utils  
copying build/lib/spconv/csrc/utils/launch.py ->  
build/bdist.linux-aarch64/wheel/./spconv/csrc/utils  
copying build/lib/spconv/csrc/utils/boxops.py ->  
build/bdist.linux-aarch64/wheel/./spconv/csrc/utils  
copying build/lib/spconv/csrc/utils/pcc.py -> build/bdist.linux-aarch64/wheel/./spconv/csrc/utils  
copying build/lib/spconv/\_\_version\_\_.py -> build/bdist.linux-aarch64/wheel/./spconv  
copying build/lib/spconv/tools.py -> build/bdist.linux-aarch64/wheel/./spconv  
copying build/lib/spconv/build.py -> build/bdist.linux-aarch64/wheel/./spconv  
creating build/bdist.linux-aarch64/wheel/spconv/utils  
copying build/lib/spconv/utils/\_\_init\_\_.py -> build/bdist.linux-aarch64/wheel/./spconv/utils  
creating build/bdist.linux-aarch64/wheel/spconv/pytorch  
copying build/lib/spconv/pytorch/functional.py ->  
build/bdist.linux-aarch64/wheel/./spconv/pytorch  
creating build/bdist.linux-aarch64/wheel/spconv/pytorch/quantization  
copying build/lib/spconv/pytorch/quantization/\_\_init\_\_.py ->  
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization

```
copying build/lib/spconv/pytorch/quantization/fuse_mapping.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization
creating build/bdist.linux-aarch64/wheel/spconv/pytorch/quantization/quantized
copying build/lib/spconv/pytorch/quantization/quantized/__init__.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization/quantized
copying build/lib/spconv/pytorch/quantization/quantized/conv.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization/quantized
copying build/lib/spconv/pytorch/quantization/quantized/reference.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization/quantized
copying build/lib/spconv/pytorch/quantization/interpreter.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization
copying build/lib/spconv/pytorch/quantization/fake_q.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization
copying build/lib/spconv/pytorch/quantization/core.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization
copying build/lib/spconv/pytorch/quantization/qmapping.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization
creating build/bdist.linux-aarch64/wheel/spconv/pytorch/quantization/intrinsic
copying build/lib/spconv/pytorch/quantization/intrinsic/__init__.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization/intrinsic
creating build/bdist.linux-aarch64/wheel/spconv/pytorch/quantization/intrinsic/quantized
copying build/lib/spconv/pytorch/quantization/intrinsic/quantized/__init__.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization/intrinsic/quantized
copying build/lib/spconv/pytorch/quantization/intrinsic/quantized/conv_relu.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization/intrinsic/quantized
creating build/bdist.linux-aarch64/wheel/spconv/pytorch/quantization/intrinsic/qat
copying build/lib/spconv/pytorch/quantization/intrinsic/qat/__init__.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization/intrinsic/qat
copying build/lib/spconv/pytorch/quantization/intrinsic/qat/modules.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization/intrinsic/qat
copying build/lib/spconv/pytorch/quantization/intrinsic/modules.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization/intrinsic
copying build/lib/spconv/pytorch/quantization/graph.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization
copying build/lib/spconv/pytorch/quantization/backend_cfg.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization
copying build/lib/spconv/pytorch/quantization/utils.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization
copying build/lib/spconv/pytorch/quantization/modules.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch/quantization
copying build/lib/spconv/pytorch/__init__.py -> build/bdist.linux-aarch64/wheel/./spconv/pytorch
copying build/lib/spconv/pytorch/constants.py ->
build/bdist.linux-aarch64/wheel/./spconv/pytorch
```

copying build/lib/spconv/pytorch/interpreter.py ->  
build/bdist.linux-aarch64/wheel/./spconv/pytorch  
copying build/lib/spconv/pytorch/pool.py -> build/bdist.linux-aarch64/wheel/./spconv/pytorch  
copying build/lib/spconv/pytorch/core.py -> build/bdist.linux-aarch64/wheel/./spconv/pytorch  
copying build/lib/spconv/pytorch/hash.py -> build/bdist.linux-aarch64/wheel/./spconv/pytorch  
copying build/lib/spconv/pytorch/ops.py -> build/bdist.linux-aarch64/wheel/./spconv/pytorch  
copying build/lib/spconv/pytorch/conv.py -> build/bdist.linux-aarch64/wheel/./spconv/pytorch  
copying build/lib/spconv/pytorch/tables.py -> build/bdist.linux-aarch64/wheel/./spconv/pytorch  
copying build/lib/spconv/pytorch/identity.py -> build/bdist.linux-aarch64/wheel/./spconv/pytorch  
copying build/lib/spconv/pytorch/spatial.py -> build/bdist.linux-aarch64/wheel/./spconv/pytorch  
copying build/lib/spconv/pytorch/utils.py -> build/bdist.linux-aarch64/wheel/./spconv/pytorch  
copying build/lib/spconv/pytorch/modules.py -> build/bdist.linux-aarch64/wheel/./spconv/pytorch  
copying build/lib/spconv/pytorch/cppcore.py -> build/bdist.linux-aarch64/wheel/./spconv/pytorch  
copying build/lib/spconv/alg.py -> build/bdist.linux-aarch64/wheel/./spconv  
creating build/bdist.linux-aarch64/wheel/spconv/benchmark  
copying build/lib/spconv/benchmark/\_\_init\_\_.py ->  
build/bdist.linux-aarch64/wheel/./spconv/benchmark  
copying build/lib/spconv/benchmark/core.py ->  
build/bdist.linux-aarch64/wheel/./spconv/benchmark  
copying build/lib/spconv/benchmark/\_\_main\_\_.py ->  
build/bdist.linux-aarch64/wheel/./spconv/benchmark  
copying build/lib/spconv/benchmark/basic.py ->  
build/bdist.linux-aarch64/wheel/./spconv/benchmark  
running install\_egg\_info  
Copying spconv.egg-info to build/bdist.linux-aarch64/wheel/./spconv-2.3.6-py3.10.egg-info  
running install\_scripts  
creating build/bdist.linux-aarch64/wheel/spconv-2.3.6.dist-info/WHEEL  
creating 'dist/spconv-2.3.6-py3-none-any.whl' and adding 'build/bdist.linux-aarch64/wheel' to it  
adding 'spconv/\_\_init\_\_.py'  
adding 'spconv/\_\_version\_\_.py'  
adding 'spconv/alg.py'  
adding 'spconv/algocore.py'  
adding 'spconv/build.py'  
adding 'spconv/constants.py'  
adding 'spconv/core.py'  
adding 'spconv/cppconstants.py'  
adding 'spconv/debug\_utils.py'  
adding 'spconv/test\_utils.py'  
adding 'spconv/tools.py'  
adding 'spconv/benchmark/\_\_init\_\_.py'  
adding 'spconv/benchmark/\_\_main\_\_.py'  
adding 'spconv/benchmark/basic.py'  
adding 'spconv/benchmark/core.py'  
adding 'spconv/csrc/\_\_init\_\_.py'

adding 'spconv/csrc/hash/\_\_init\_\_.py'  
adding 'spconv/csrc/hash/core.py'  
adding 'spconv/csrc/sparse/\_\_init\_\_.py'  
adding 'spconv/csrc/sparse/all.py'  
adding 'spconv/csrc/sparse/alloc.py'  
adding 'spconv/csrc/sparse/convops.py'  
adding 'spconv/csrc/sparse/cpu\_core.py'  
adding 'spconv/csrc/sparse/gather.py'  
adding 'spconv/csrc/sparse/indices.py'  
adding 'spconv/csrc/sparse/inference.py'  
adding 'spconv/csrc/sparse/maxpool.py'  
adding 'spconv/csrc/sparse/pointops.py'  
adding 'spconv/csrc/utils/\_\_init\_\_.py'  
adding 'spconv/csrc/utils/boxops.py'  
adding 'spconv/csrc/utils/launch.py'  
adding 'spconv/csrc/utils/pcc.py'  
adding 'spconv/gencode/\_\_init\_\_.py'  
adding 'spconv/gencode/\_\_main\_\_.py'  
adding 'spconv/pytorch/\_\_init\_\_.py'  
adding 'spconv/pytorch/constants.py'  
adding 'spconv/pytorch/conv.py'  
adding 'spconv/pytorch/core.py'  
adding 'spconv/pytorch/cppcore.py'  
adding 'spconv/pytorch/functional.py'  
adding 'spconv/pytorch/hash.py'  
adding 'spconv/pytorch/identity.py'  
adding 'spconv/pytorch/interpreter.py'  
adding 'spconv/pytorch/modules.py'  
adding 'spconv/pytorch/ops.py'  
adding 'spconv/pytorch/pool.py'  
adding 'spconv/pytorch/spatial.py'  
adding 'spconv/pytorch/tables.py'  
adding 'spconv/pytorch/utils.py'  
adding 'spconv/pytorch/quantization/\_\_init\_\_.py'  
adding 'spconv/pytorch/quantization/backend\_cfg.py'  
adding 'spconv/pytorch/quantization/core.py'  
adding 'spconv/pytorch/quantization/fake\_q.py'  
adding 'spconv/pytorch/quantization/fuse\_mapping.py'  
adding 'spconv/pytorch/quantization/graph.py'  
adding 'spconv/pytorch/quantization/interpreter.py'  
adding 'spconv/pytorch/quantization/modules.py'  
adding 'spconv/pytorch/quantization/qmapping.py'  
adding 'spconv/pytorch/quantization/utils.py'  
adding 'spconv/pytorch/quantization/intrinsic/\_\_init\_\_.py'

```

adding 'spconv/pytorch/quantization/intrinsic/modules.py'
adding 'spconv/pytorch/quantization/intrinsic/qat/__init__.py'
adding 'spconv/pytorch/quantization/intrinsic/qat/modules.py'
adding 'spconv/pytorch/quantization/intrinsic/quantized/__init__.py'
adding 'spconv/pytorch/quantization/intrinsic/quantized/conv_relu.py'
adding 'spconv/pytorch/quantization/quantized/__init__.py'
adding 'spconv/pytorch/quantization/quantized/conv.py'
adding 'spconv/pytorch/quantization/quantized/reference.py'
adding 'spconv/utils/__init__.py'
adding 'spconv-2.3.6.dist-info/licenses/LICENSE'
adding 'spconv-2.3.6.dist-info/METADATA'
adding 'spconv-2.3.6.dist-info/WHEEL'
adding 'spconv-2.3.6.dist-info/top_level.txt'
adding 'spconv-2.3.6.dist-info/RECORD'
removing build/bdist.linux-aarch64/wheel
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata/spconv# pip install dist/*.whl
Processing ./dist/spconv-2.3.6-py3-none-any.whl
Requirement already satisfied: pccm>=0.4.0 in
/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from spconv==2.3.6) (0.4.16)
Requirement already satisfied: ccimport>=0.4.0 in
/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from spconv==2.3.6) (0.4.4)
Requirement already satisfied: pybind11>=2.6.0 in
/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from spconv==2.3.6) (2.13.6)
Requirement already satisfied: fire in /root/miniforge3/envs/sonata/lib/python3.10/site-packages
(from spconv==2.3.6) (0.7.0)
Requirement already satisfied: numpy in
/root/miniforge3/envs/sonata/lib/python3.10/site-packages (from spconv==2.3.6) (1.26.4)
INFO: pip is looking at multiple versions of spconv to determine which version is compatible with
other requirements. This could take a while.
ERROR: Could not find a version that satisfies the requirement cumm<0.5.0,>=0.4.5 (from
spconv) (from versions: 0.1.0)
ERROR: No matching distribution found for cumm<0.5.0,>=0.4.5
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata/spconv# pip install cumm
Collecting cumm
  Downloading cumm-0.1.0.tar.gz (166 kB)
  Installing build dependencies ... done
  Getting requirements to build wheel ... error
error: subprocess-exited-with-error

```

× Getting requirements to build wheel did not run successfully.

| exit code: 1

└─> [15 lines of output]

Traceback (most recent call last):

```

File
"/root/miniforge3/envs/sonata/lib/python3.10/site-packages/pip/_vendor/pyproject_hooks/_in_pr
ocess/_in_process.py", line 389, in <module>
    main()
File
"/root/miniforge3/envs/sonata/lib/python3.10/site-packages/pip/_vendor/pyproject_hooks/_in_pr
ocess/_in_process.py", line 373, in main
    json_out["return_val"] = hook(**hook_input["kwargs"])
File
"/root/miniforge3/envs/sonata/lib/python3.10/site-packages/pip/_vendor/pyproject_hooks/_in_pr
ocess/_in_process.py", line 143, in get_requires_for_build_wheel
    return hook(config_settings)
File
"/tmp/pip-build-env-jpru6ej_/overlay/lib/python3.10/site-packages/setuptools/build_meta.py", line
331, in get_requires_for_build_wheel
    return self._get_build_requires(config_settings, requirements=[])
File
"/tmp/pip-build-env-jpru6ej_/overlay/lib/python3.10/site-packages/setuptools/build_meta.py", line
301, in _get_build_requires
    self.run_setup()
File
"/tmp/pip-build-env-jpru6ej_/overlay/lib/python3.10/site-packages/setuptools/build_meta.py", line
317, in run_setup
    exec(code, locals())
File "<string>", line 62, in <module>
FileNotFoundError: [Errno 2] No such file or directory: 'version.txt'
[end of output]

```

note: This error originates from a subprocess, and is likely not a problem with pip.  
error: subprocess-exited-with-error

× Getting requirements to build wheel did not run successfully.  
| exit code: 1  
└─> See above for output.

note: This error originates from a subprocess, and is likely not a problem with pip.  
(sonata) root@iisr-dhai5g01:/usr/local/zed/sonata/spconv# git clone  
https://github.com/FindMeaning/cumm.git  
cd cumm  
git checkout v0.4.9 # Required for spconv >= 2.3.x  
Cloning into 'cumm'...  
Username for 'https://github.com': ^C  
bash: cd: cumm: No such file or directory  
error: pathspec 'v0.4.9' did not match any file(s) known to git



```
(sonata) root@iisr-dhai5g01:./usr/local/zed/sonata/spconv#
```