

## **XCrySDen 1.6.2 Manjaro Installation**

September 15, 2022

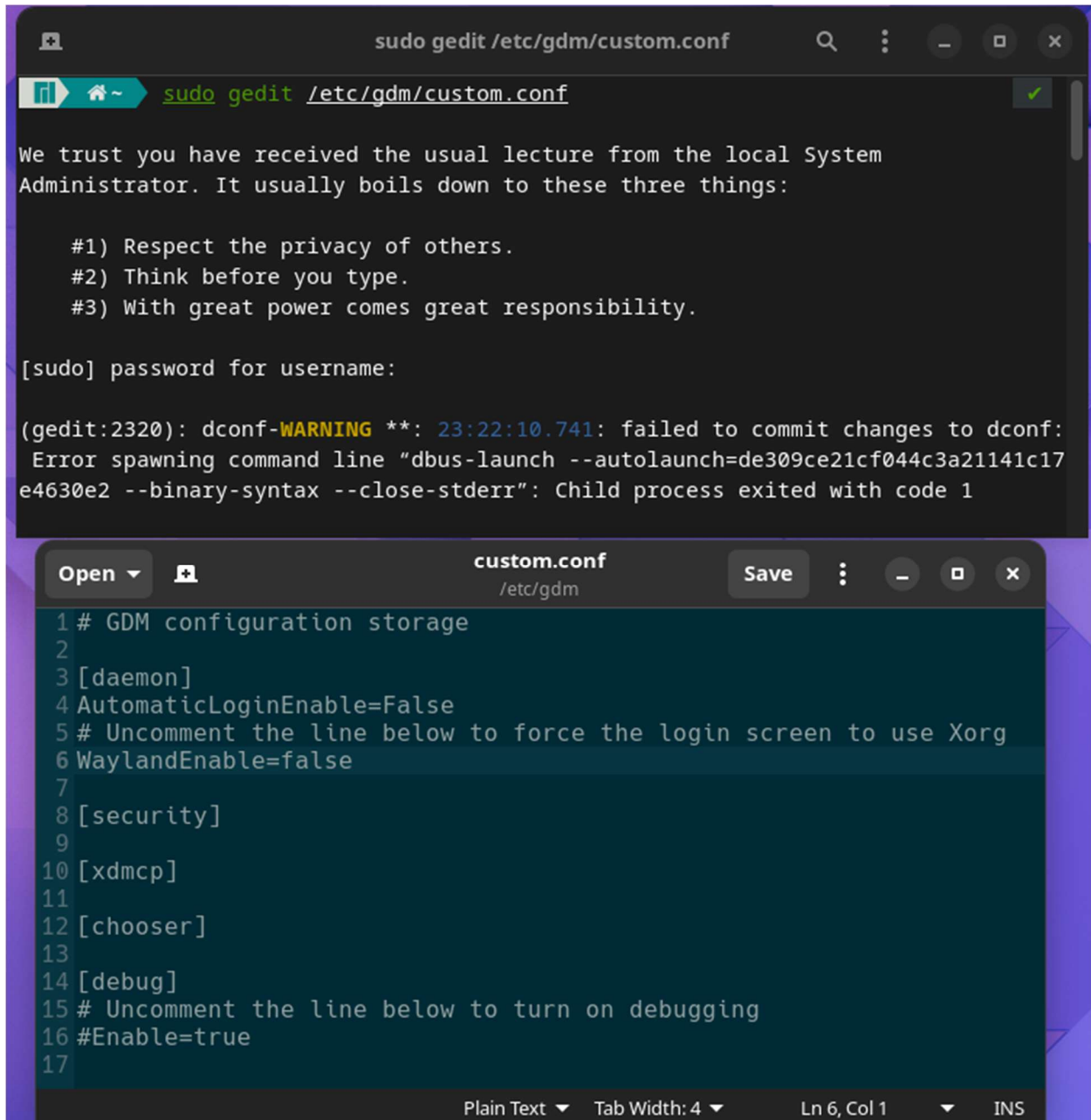
### **Installed Manjaro**

1. Went to: <https://manjaro.org/download/>
2. Downloaded: <https://download.manjaro.org/gnome/21.3.7/manjaro-gnome-21.3.7-220816-linux515.iso>
3. Got USBImager from: <https://gitlab.com/bztsrc/usbimager>
4. USBImager used to put Manjaro on a USB stick
5. USB stick plugged into computer and used to installed Manjaro on computer
6. After installation completed, removed USB stick from computer

## Changed Wayland to X11

Reference used: <https://docs.fedoraproject.org/en-US/quick-docs/configuring-xorg-as-default-gnome-session/>

### 7. Edited custom.conf



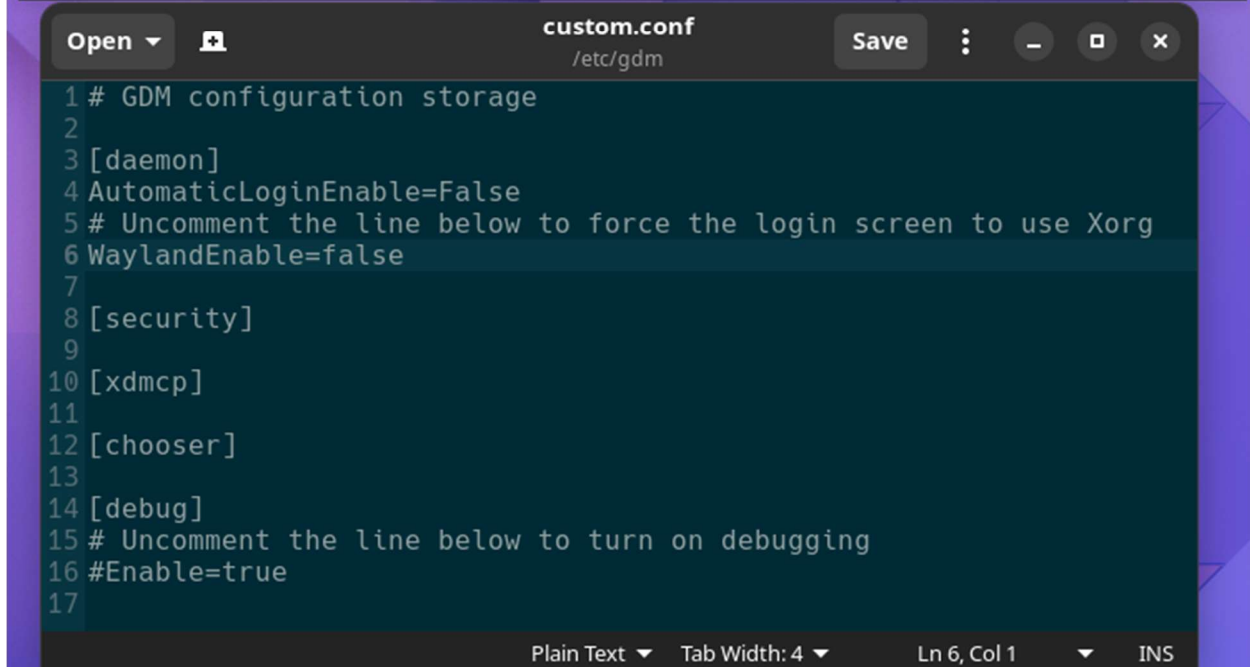
```
sudo gedit /etc/gdm/custom.conf

We trust you have received the usual lecture from the local System
Administrator. It usually boils down to these three things:

#1) Respect the privacy of others.
#2) Think before you type.
#3) With great power comes great responsibility.

[sudo] password for username:

(gedit:2320): dconf-WARNING **: 23:22:10.741: failed to commit changes to dconf:
Error spawning command line "dbus-launch --autolaunch=de309ce21cf044c3a21141c17
e4630e2 --binary-syntax --close-stderr": Child process exited with code 1
```

```
Open custom.conf Save
/etc/gdm

1 # GDM configuration storage
2
3 [daemon]
4 AutomaticLoginEnable=False
5 # Uncomment the line below to force the login screen to use Xorg
6 WaylandEnable=false
7
8 [security]
9
10 [xdmcp]
11
12 [chooser]
13
14 [debug]
15 # Uncomment the line below to turn on debugging
16 #Enable=true
17

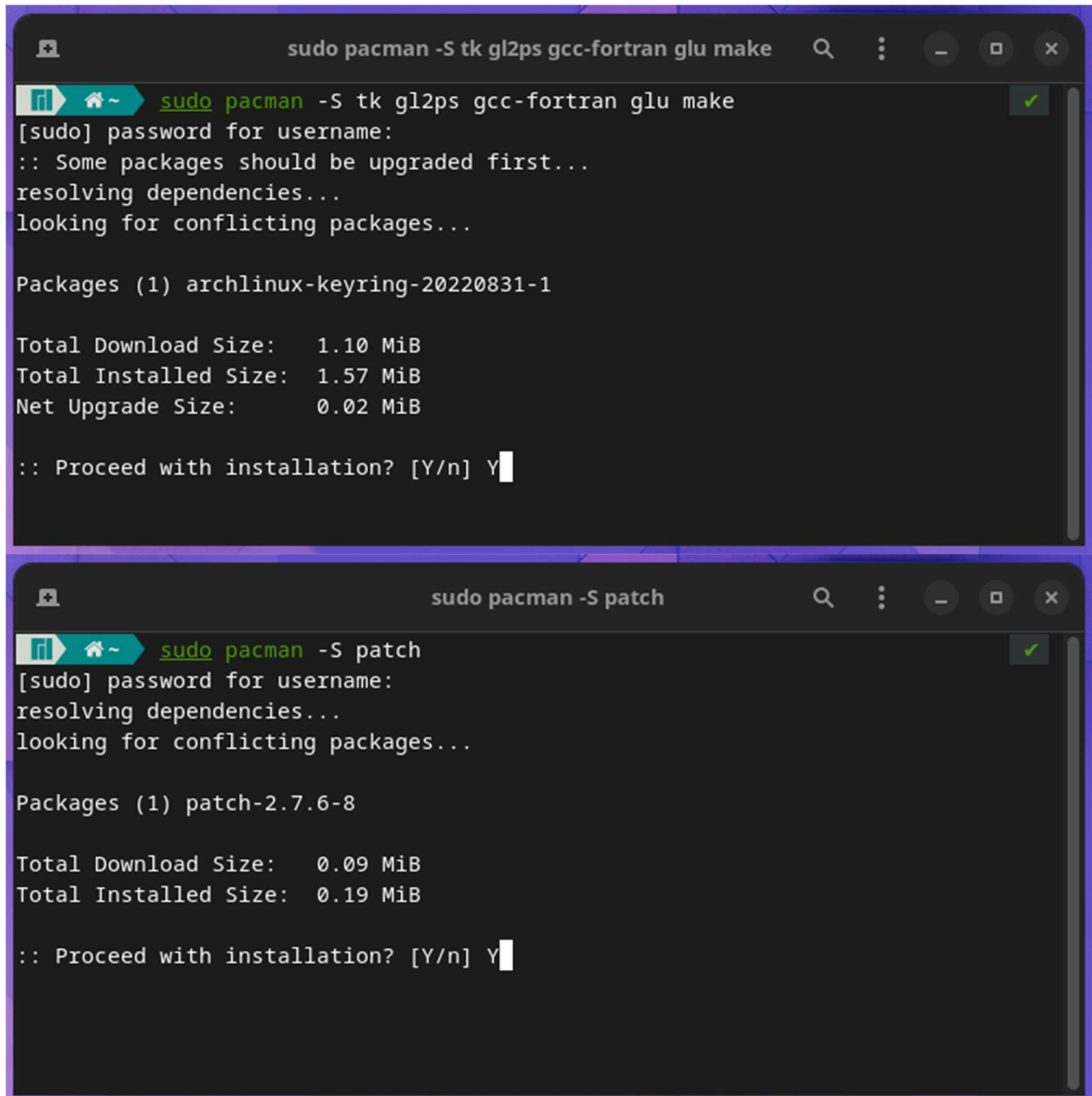
Plain Text Tab Width: 4 Ln 6, Col 1 INS
```

### 8. Restarted the computer

## Install XCrySDen Dependencies

Note: Answered Y to all encountered “Proceed with installation?”.

9. Installed tk, gl2ps, gcc-fortran, glu, make, and patch with pacman



The image shows two terminal windows. The top window shows the command `sudo pacman -S tk gl2ps gcc-fortran glu make` being executed. It prompts for a password, then shows the resolution of dependencies, including the package `archlinux-keyring-20220831-1`. It lists the download and installed sizes, and asks for confirmation to proceed with installation, which is answered with 'Y'.

```
sudo pacman -S tk gl2ps gcc-fortran glu make
[sudo] password for username:
:: Some packages should be upgraded first...
resolving dependencies...
looking for conflicting packages...

Packages (1) archlinux-keyring-20220831-1

Total Download Size:    1.10 MiB
Total Installed Size:  1.57 MiB
Net Upgrade Size:       0.02 MiB

:: Proceed with installation? [Y/n] Y
```

The bottom window shows the command `sudo pacman -S patch` being executed. It prompts for a password, then shows the resolution of dependencies, including the package `patch-2.7.6-8`. It lists the download and installed sizes, and asks for confirmation to proceed with installation, which is answered with 'Y'.

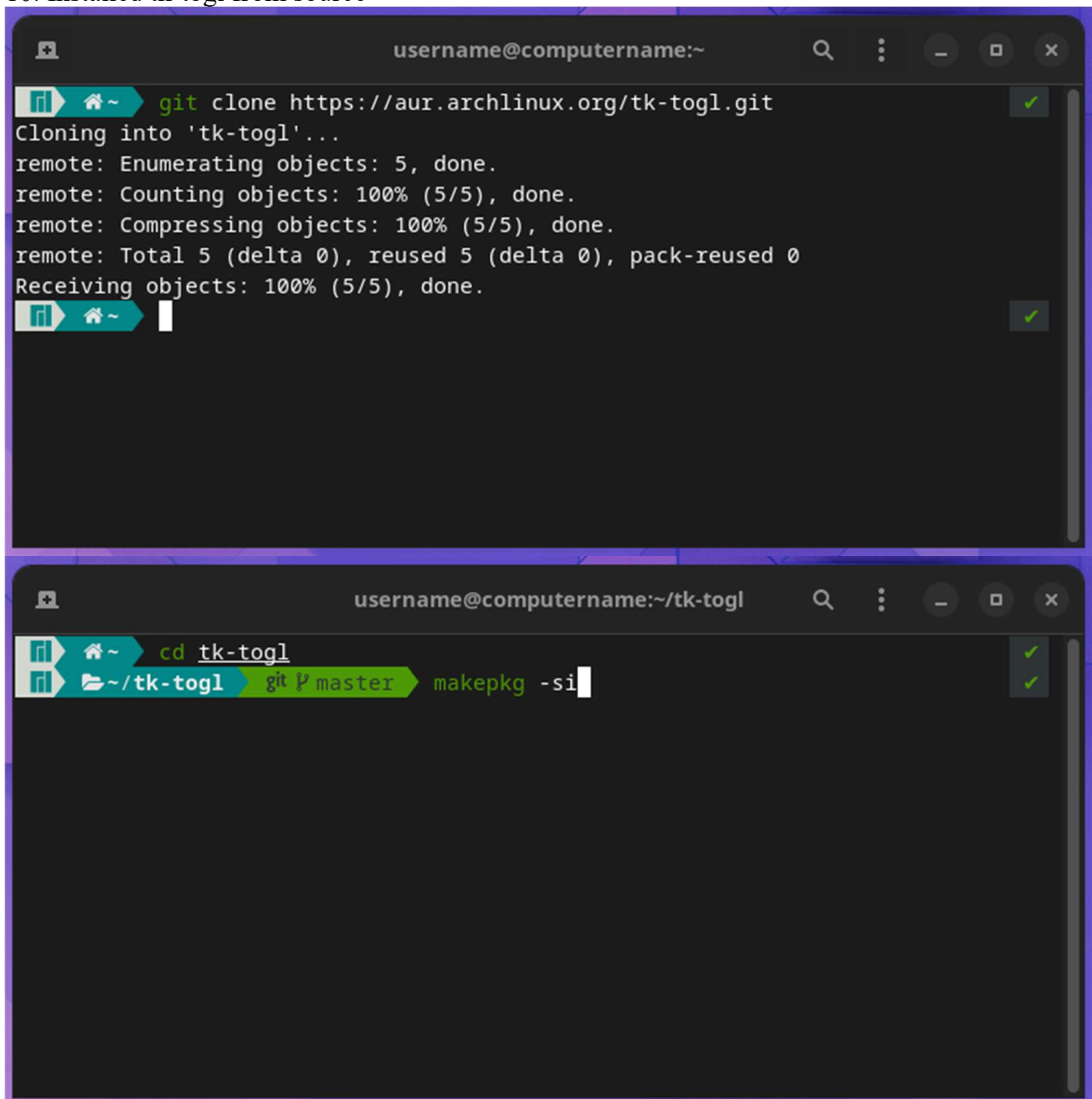
```
sudo pacman -S patch
[sudo] password for username:
resolving dependencies...
looking for conflicting packages...

Packages (1) patch-2.7.6-8

Total Download Size:    0.09 MiB
Total Installed Size:  0.19 MiB

:: Proceed with installation? [Y/n] Y
```

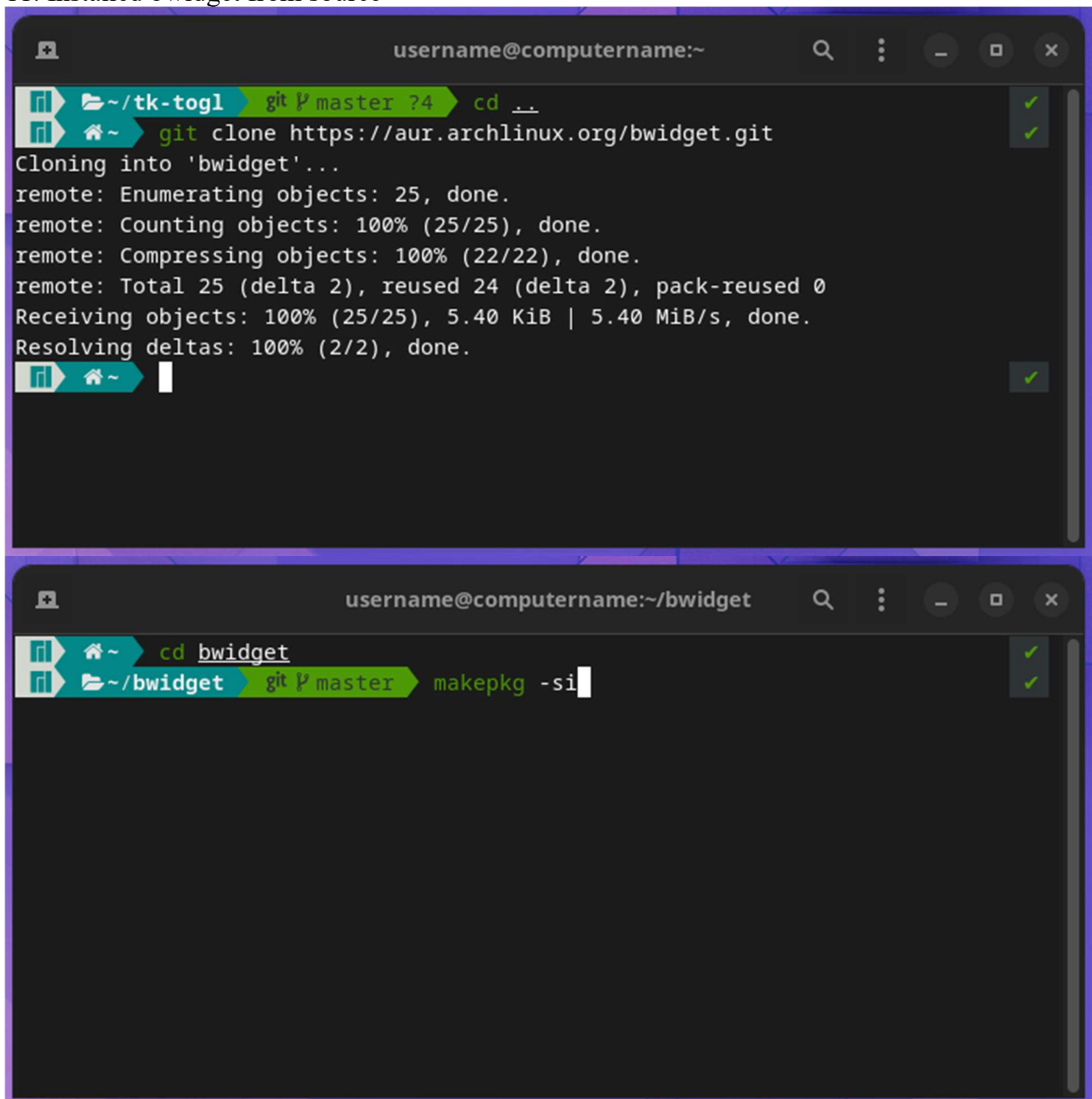
#### 10. Installed tk-togl from source



The image consists of two terminal window screenshots. The top window shows the cloning of the tk-togl repository from the Arch Linux AUR. The bottom window shows the navigation to the cloned directory and the execution of the makepkg command to build the package.

```
username@computername:~  
git clone https://aur.archlinux.org/tk-togl.git  
Cloning into 'tk-togl'...  
remote: Enumerating objects: 5, done.  
remote: Counting objects: 100% (5/5), done.  
remote: Compressing objects: 100% (5/5), done.  
remote: Total 5 (delta 0), reused 5 (delta 0), pack-reused 0  
Receiving objects: 100% (5/5), done.  
  
username@computername:~/tk-togl  
cd tk-togl  
git P master  
makepkg -si
```

## 11. Installed bwidgit from source

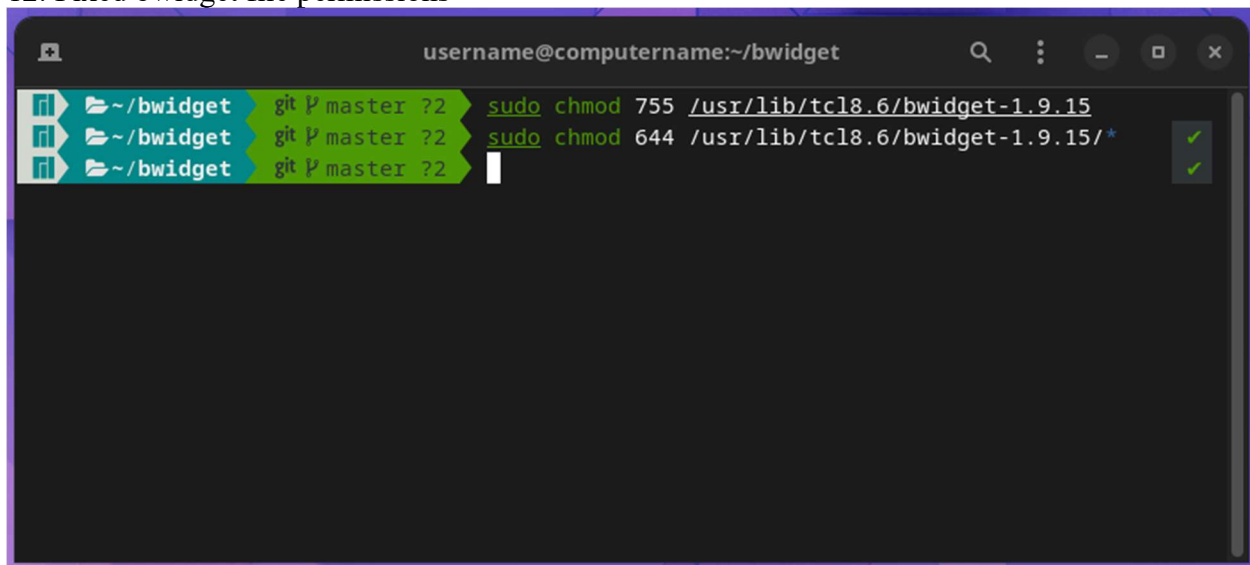


The image consists of two terminal window screenshots. The top window shows the cloning of the bwidgit repository from the Arch Linux AUR. The bottom window shows the navigation to the cloned directory and the execution of the makepkg command to build the package.

```
username@computername:~  
~/tk-togl git P master ?4 cd .. ✓  
git clone https://aur.archlinux.org/bwidgit.git ✓  
Cloning into 'bwidgit'...  
remote: Enumerating objects: 25, done.  
remote: Counting objects: 100% (25/25), done.  
remote: Compressing objects: 100% (22/22), done.  
remote: Total 25 (delta 2), reused 24 (delta 2), pack-reused 0  
Receiving objects: 100% (25/25), 5.40 KiB | 5.40 MiB/s, done.  
Resolving deltas: 100% (2/2), done.  
✓
```

```
username@computername:~/bwidgit  
cd bwidgit ✓  
~/bwidgit git P master makepkg -si ✓
```

## 12. Fixed bwidgit file permissions

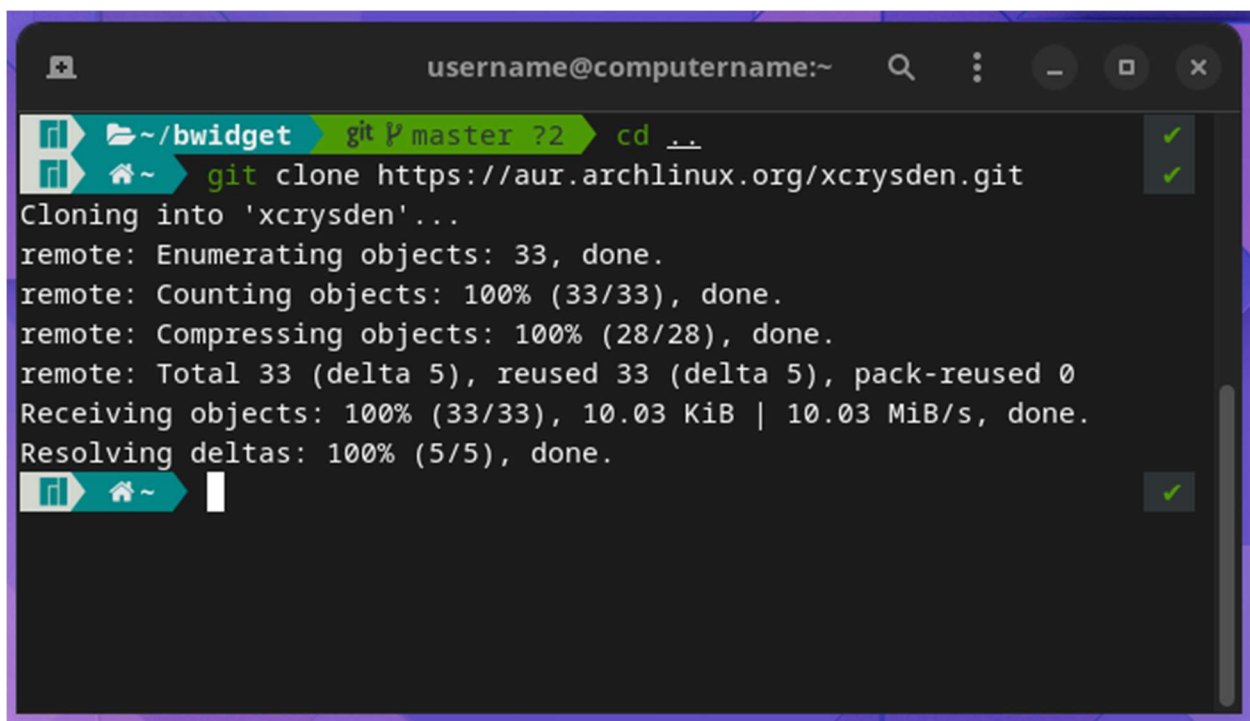


A terminal window titled 'username@computername:~/bwidgit' showing three commands to fix file permissions. Each command is preceded by a folder icon and a green checkmark in the right margin. The commands are: `sudo chmod 755 /usr/lib/tcl8.6/bwidgit-1.9.15`, `sudo chmod 644 /usr/lib/tcl8.6/bwidgit-1.9.15/*`, and a blank line.

```
username@computername:~/bwidgit
~/bwidgit git P master ?2 sudo chmod 755 /usr/lib/tcl8.6/bwidgit-1.9.15 ✓
~/bwidgit git P master ?2 sudo chmod 644 /usr/lib/tcl8.6/bwidgit-1.9.15/* ✓
~/bwidgit git P master ?2
```

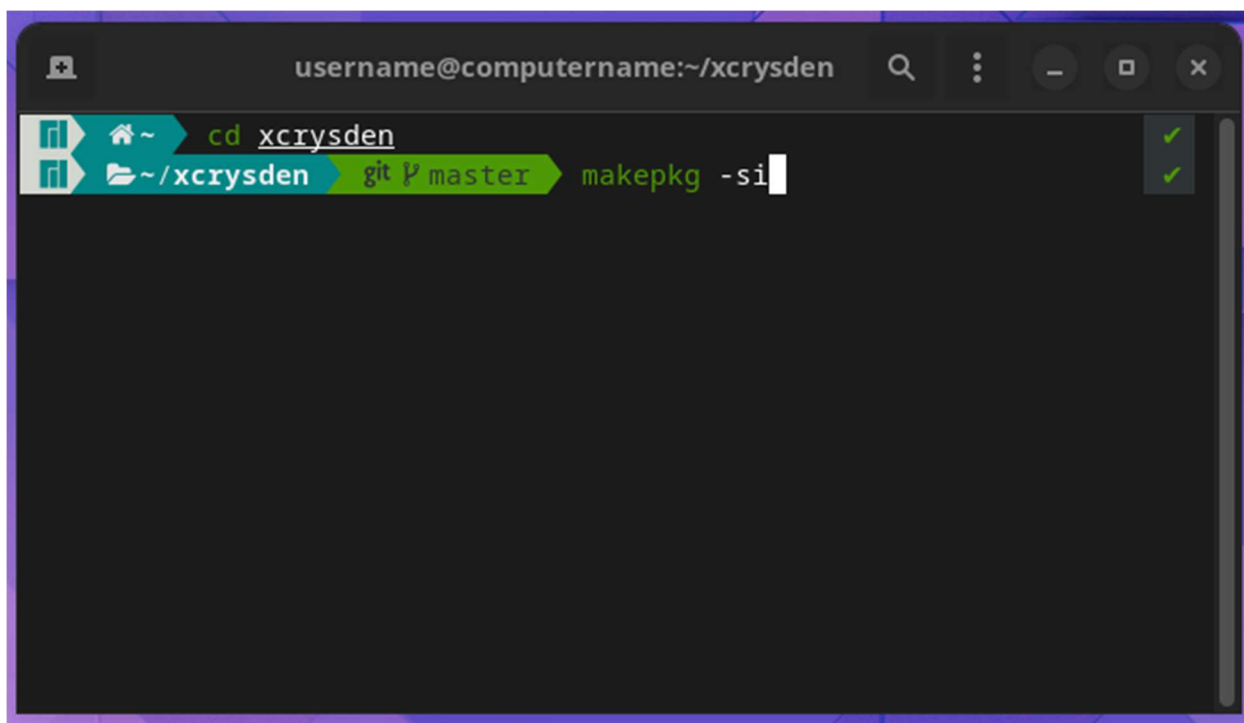
## 13. Installed XCrySDen from AUR source

Reference: <https://aur.archlinux.org/packages/xcrysdn>



A terminal window titled 'username@computername:~' showing the cloning of XCrySDen from the AUR. The first command is `cd ..` with a green checkmark. The second command is `git clone https://aur.archlinux.org/xcrysdn.git` with a green checkmark. The output shows the cloning progress. The third command is a blank line with a green checkmark.

```
username@computername:~
~/bwidgit git P master ?2 cd .. ✓
~ git clone https://aur.archlinux.org/xcrysdn.git ✓
Cloning into 'xcrysdn'...
remote: Enumerating objects: 33, done.
remote: Counting objects: 100% (33/33), done.
remote: Compressing objects: 100% (28/28), done.
remote: Total 33 (delta 5), reused 33 (delta 5), pack-reused 0
Receiving objects: 100% (33/33), 10.03 KiB | 10.03 MiB/s, done.
Resolving deltas: 100% (5/5), done.
~
```



#### 14. When successful, XCrysDen ran in Manjaro Ruah 21.3.7

