

Case 1

Variables:

- Use official Arch Linux FTP
- Download file of any size

Output:

- First do a refresh

```
[schiv@v3000 ~]$ sudo pacman -Syy
:: Synchronising package databases...
core           33.7K      29.9K/s 00:00:01 [#####] 100%
extra          428.2K    44.1K/s 00:00:10 [#####] 100%
community     366.3K    49.7K/s 00:00:07 [#####] 100%
```

- Then get the package

```
[schiv@v3000 ~]$ sudo pacman -S go-openoffice
resolving dependencies...
looking for inter-conflicts...
```

```
Targets (1): go-openoffice-3.1.1.2-1
```

```
Total Download Size:    166.99 MB
Total Installed Size:    361.03 MB
```

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

- While the download is running, disconnect from the internet.
- This can be done via your network management GUI, or by physically unplugging your cable/device.

- The pacman progress just "freezes"

```
:: Retrieving packages from extra...
go-openoffice-3.1.1... 225.9K 99.8K/s 00:28:31 [---] 0%
```

- Now reconnect
- Notice that the pacman progress does not resume

```
:: Retrieving packages from extra...
go-openoffice-3.1.1... 225.9K 99.8K/s 00:28:31 [---] 0%
```

- So CTRL+C

```
:: Retrieving packages from extra...
^Cgo-openoffice-3.1.1... 225.9K 99.8K/s 00:28:31 [-] 0%
Interrupt signal received
```

- Based on the output, the partial file size should be exactly at where it was interrupted.
- Notice that it is far away from that.

```
[schiv@v3000 ~]$ ls -lh /var/cache/pacman/pkg/go-openoffice-3.1.1.2-1-i686.pkg.tar.gz.part
-rw-r--r-- 1 root root 758M 2009-09-29 13:58
/var/cache/pacman/pkg/go-openoffice-3.1.1.2-1-i686.pkg.tar.gz.part
```

- But nevermind, let's try pulling it again. Re-run the pacman install command.

```
[schiv@v3000 ~]$ sudo pacman -S go-openoffice
resolving dependencies...
looking for inter-conflicts...
```

```
Targets (1): go-openoffice-3.1.1.2-1
```

```
Total Download Size:    166.99 MB
Total Installed Size:    361.03 MB
```

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

- Now notice that pacman checks the integrity, so delete it when asked.

```
:: Retrieving packages from extra...
checking package integrity....0K    0.0K/s 00:00:00 [---] 0%
:: File go-openoffice-3.1.1.2-1-i686.pkg.tar.gz is corrupted.
   Do you want to delete it? [Y/n] y
error: failed to commit transaction (invalid or corrupted
package)
go-openoffice-3.1.1.2-1-i686.pkg.tar.gz is invalid or
corrupted
Errors occurred, no packages were upgraded.
```

- Pacman will just redownload once you reinstall again

Result: *File grows larger with bogus data upon sudden disconnection (bad). But pacman reports broken download (good).*

Case 2

Variables:

- Use a mirror of your choice which has both FTP/HTTP
- Use FTP
- Download file of any size

Result: Varies

<ftp://mirror.aarnet.edu.au> – Same as Case 1

<ftp://mirror.internode.on.net> – Pacman does not report.

Instead, outputs “Unknown FTP error”. Bad, because user has to delete cache file himself.

Case 3

Variables:

- Use a mirror of your choice which has both FTP/HTTP
- Use HTTP
- Download file of any size

Result: Pacman does not report. Instead, outputs “Requested Range Not Satisfiable”

Case 4

Variables:

- Use any mirror
- Use either FTP or HTTP
- Download file of any size
- Use *wget* as **XferCommand**

Result: No Issues (wget resumes seamlessly as soon as the connection is back)