Introduction to VZIP With Threads

**Setup**

Install Zlib on an Ubuntu-based Linux OS:

A close-up of a white background

Description automatically generated

**Program Overview**

The task is to change the given video compression program to make it faster by using threads. Using the pthread library for this task is mandatory, and max of only 20 running threads is allowed.

**Baseline**

A screen shot of a computer

Description automatically generated

On Apple M2 chip with 24GB memory

**Results**

A screen shot of a computer

Description automatically generated

On Apple M2 chip with 24GB memory

**References**

Installing zlib:

* <https://itsfoss.com/install-zlib-ubuntu/>

Dirent’s Directory Read-Write Library Man:

* <https://pubs.opengroup.org/onlinepubs/7908799/xsh/dirent.h.html>

Pthreads Man:

* <https://www.cs.cmu.edu/afs/cs/academic/class/15492-f07/www/pthreads.html>