

SDP - Lab 4.1

The software after it has performed the reading of the binary file, it allocates the data structure, a vector *V* for the number read that maps the file address space, and 2 values, left and right for the position of the quicksort. The first thread is created by the main that will wait the end of the process.

The quicksort algorithm, based on the one provided, will reorder the vector between the 2 boundaries. Before performing 2 recursive calls it creates 2 copies of the main structure in order to proceed to the next steps. After a check over the difference between the two indices and a size value provided by the user the recursive call is performed.