

# CW 0

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Write a program to merge 4 ordered files, using the *synchsort* procedure described in [1].

**Input:** Your program will read from the standard input the names of the files containing the ordered sequences to be merged. Each file will contain a binary representation of a sequence of integer numbers.

**Output:** Your program will write a file, called **merged**, containing a binary representation of an ordered sequence, resulting from the merging of the input files.

## 1 Two levels

Your program will run with at least 3 threads (for merging, reading, and writing) as described in classroom. You can choose between two levels to implement:

**100%:** Use 6 processes: output, synchsort, and 4 input processes. The communication between them should be performed using the PVM library. The synchsort process will contain 3 threads.

**90%:** Use just one process with 3 threads.

## 2 The rules of game

**Deadline:** 26/jan/2001, 18h, hard.

**Working in groups:** At most two students in each group.

**Plagiarism:** The same old rules.

**Documentation:** In T<sub>E</sub>X as always.

## References

- [1] Donald E. Knuth. *The Art of Computer Programming, volume 3: Sorting and Searching*. Addison-Wesley, 1998.