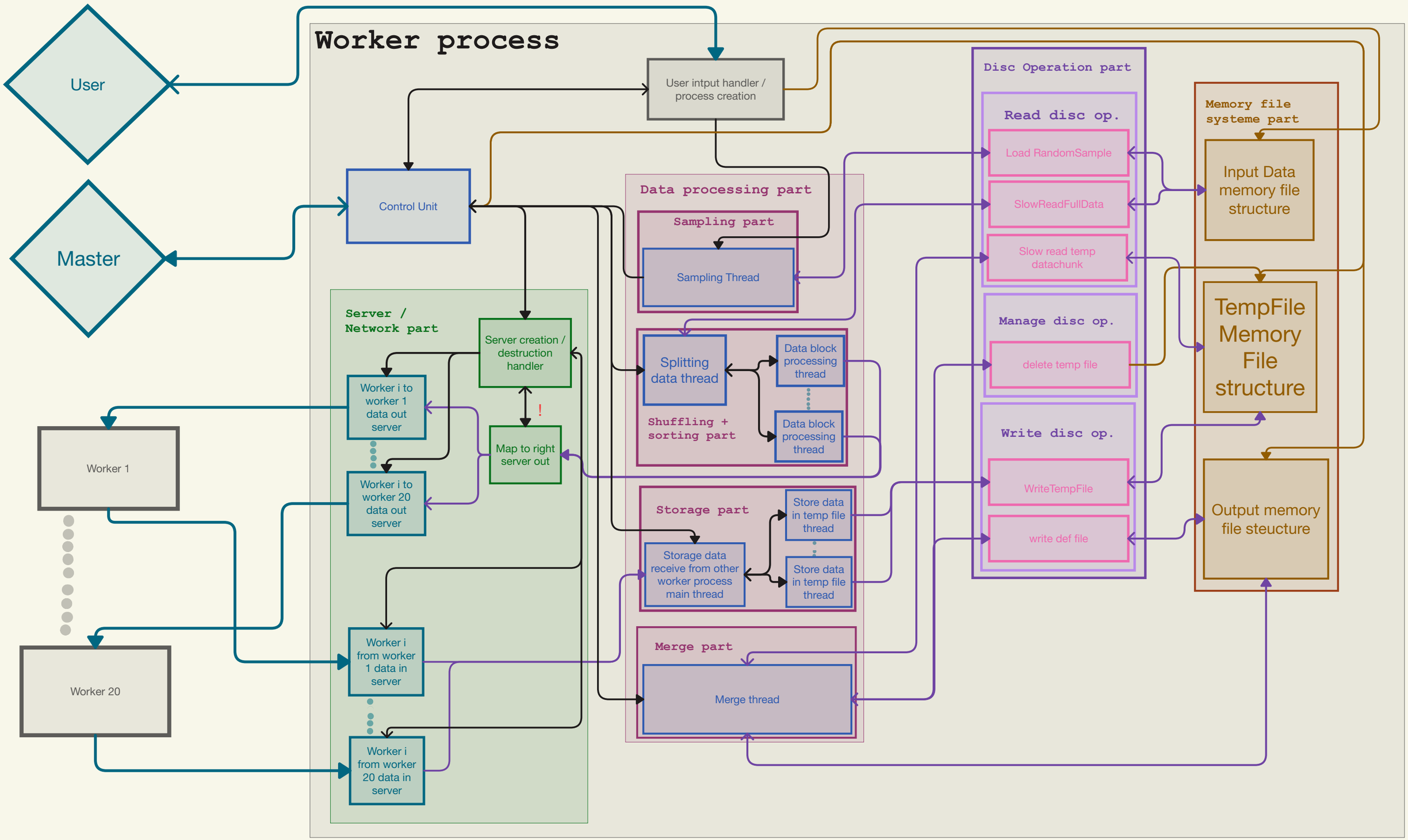
Worker new Architecture:

network connection
thread connection
memory file system creation / destruction
function call

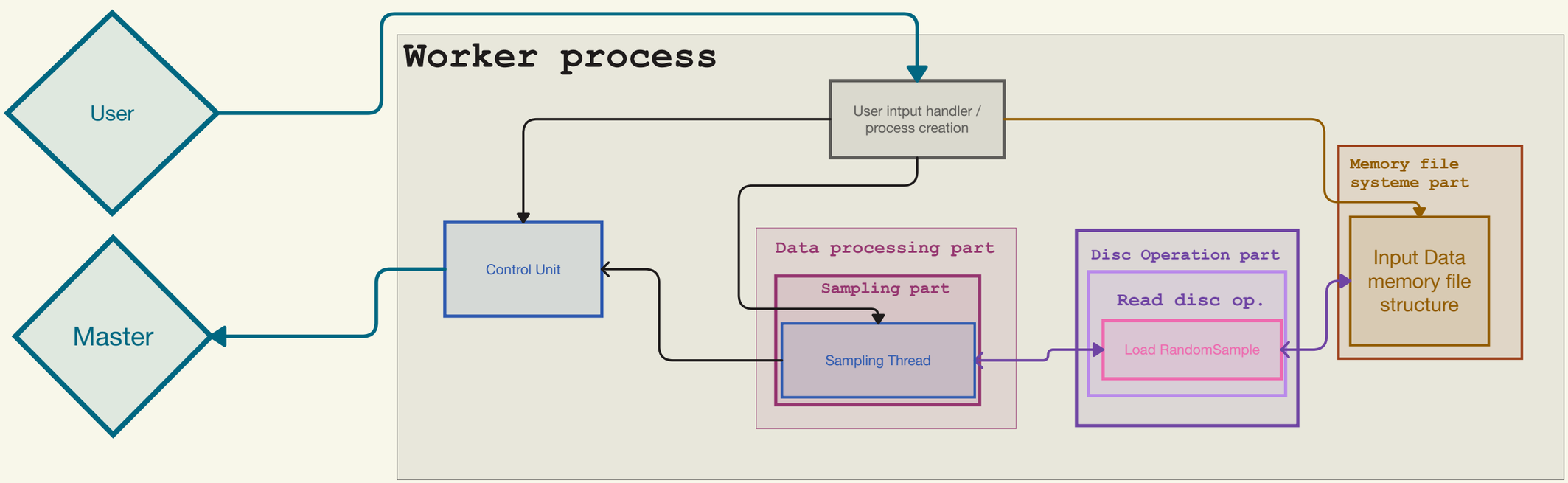
init request
answer request



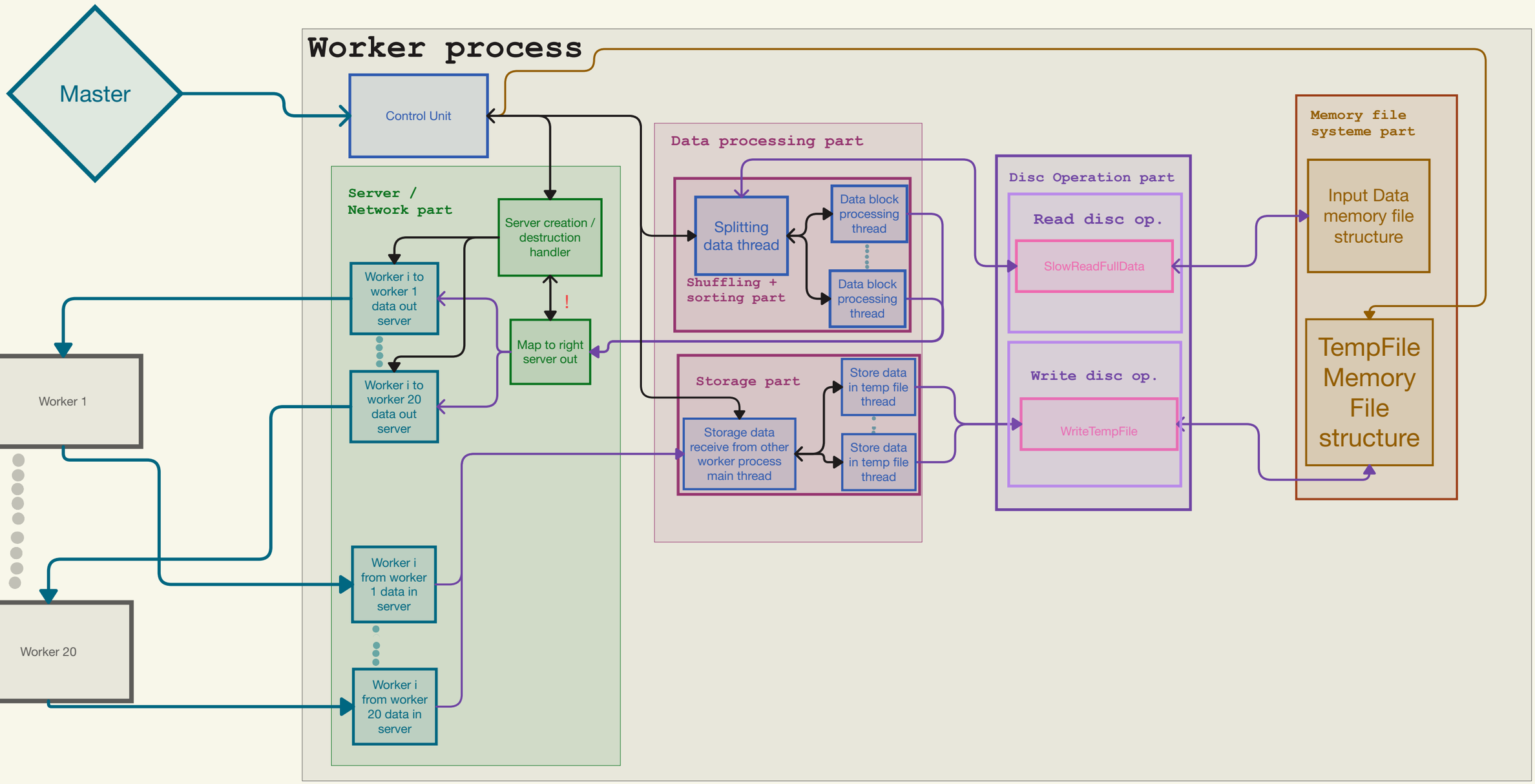
A: Main architecture for each step / request

B: Details for each step.

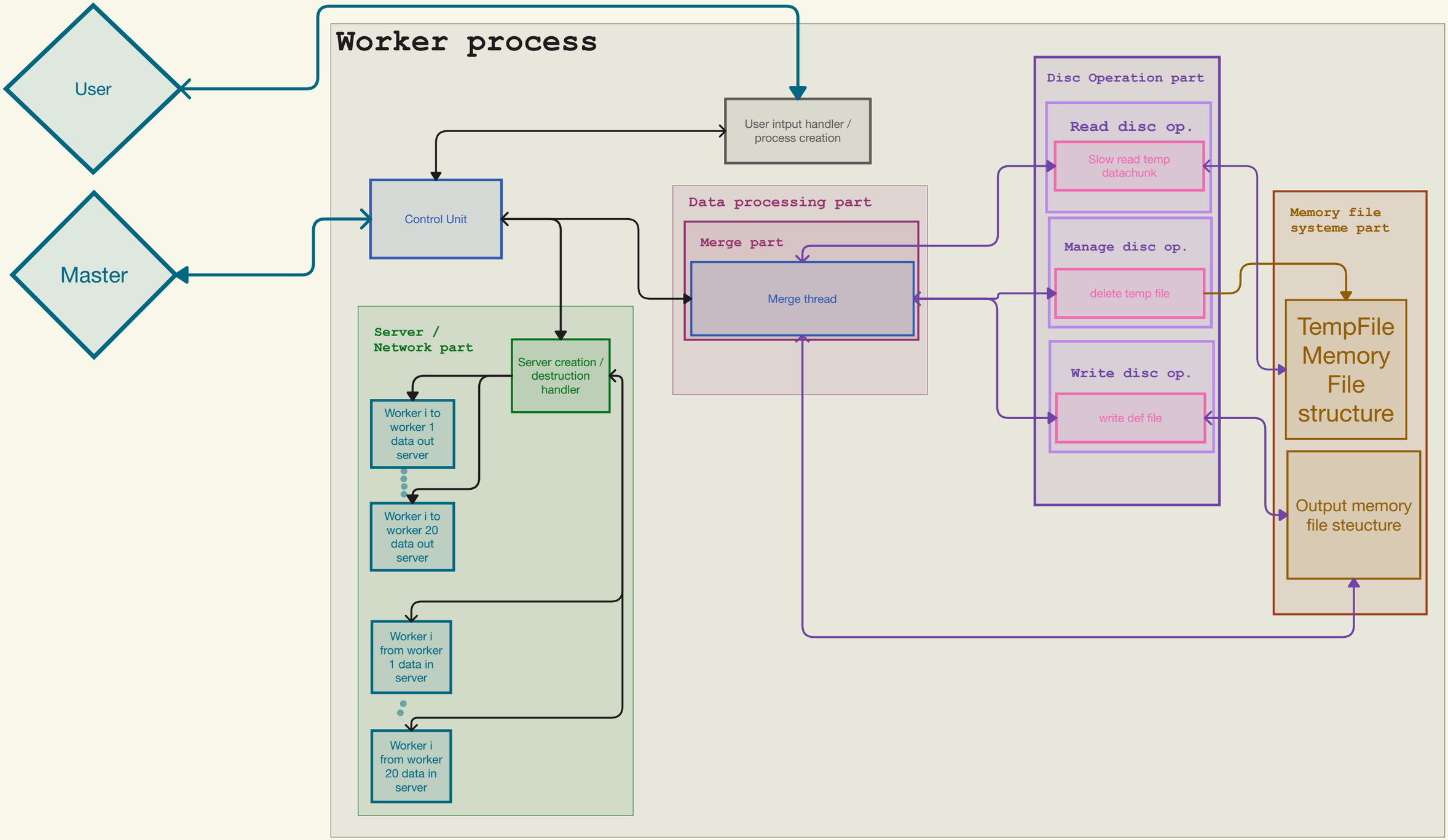
I Lauch process & join network



II partionning, data block processing & shuffelling

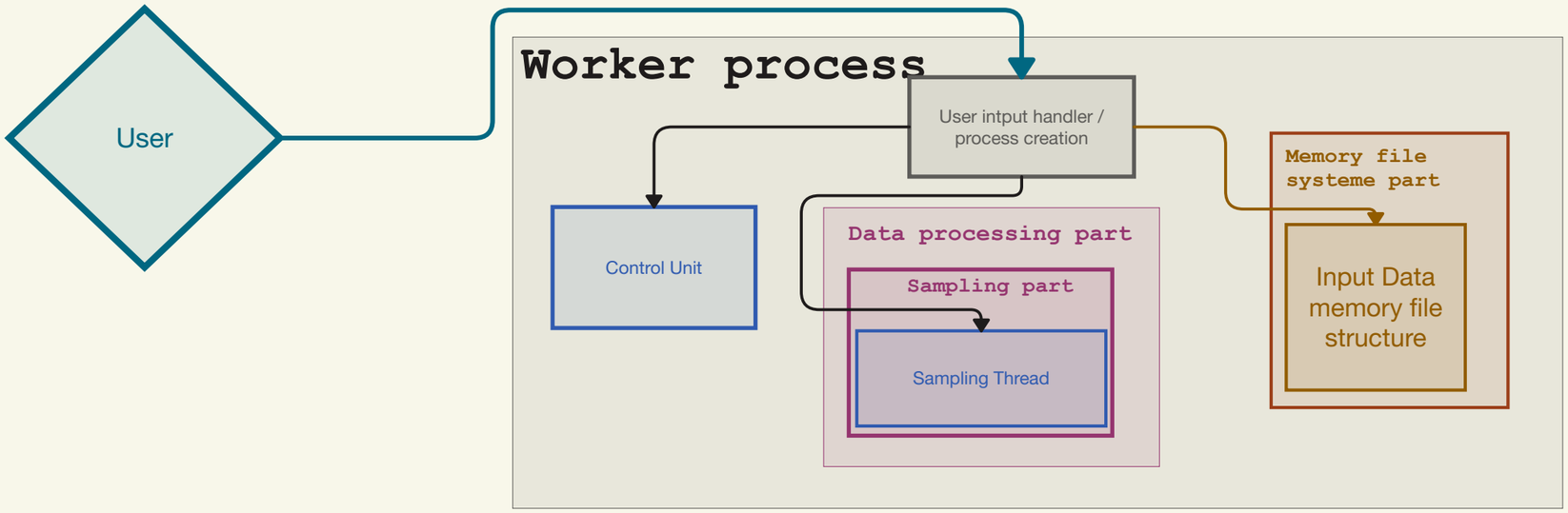


III Merge & End process



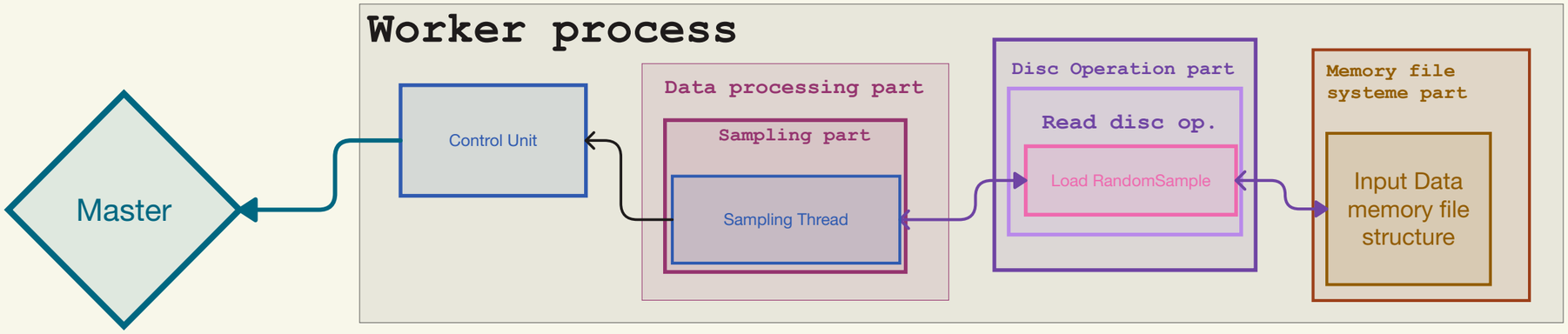
I Lauch process & join network

I.a launch worker, start the 1st threads



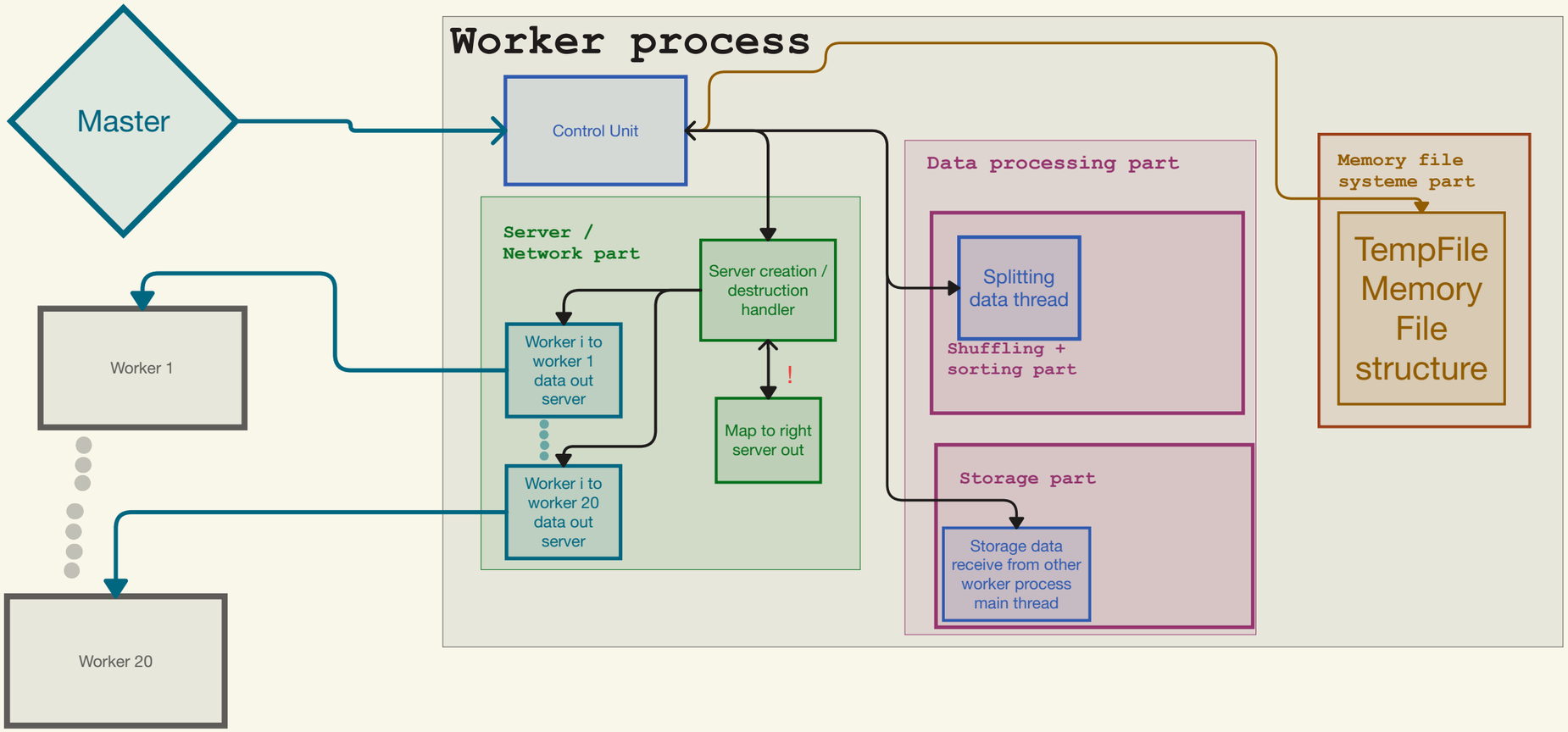
I Lauch process & join network

I.b send connection to the Master request & send sample



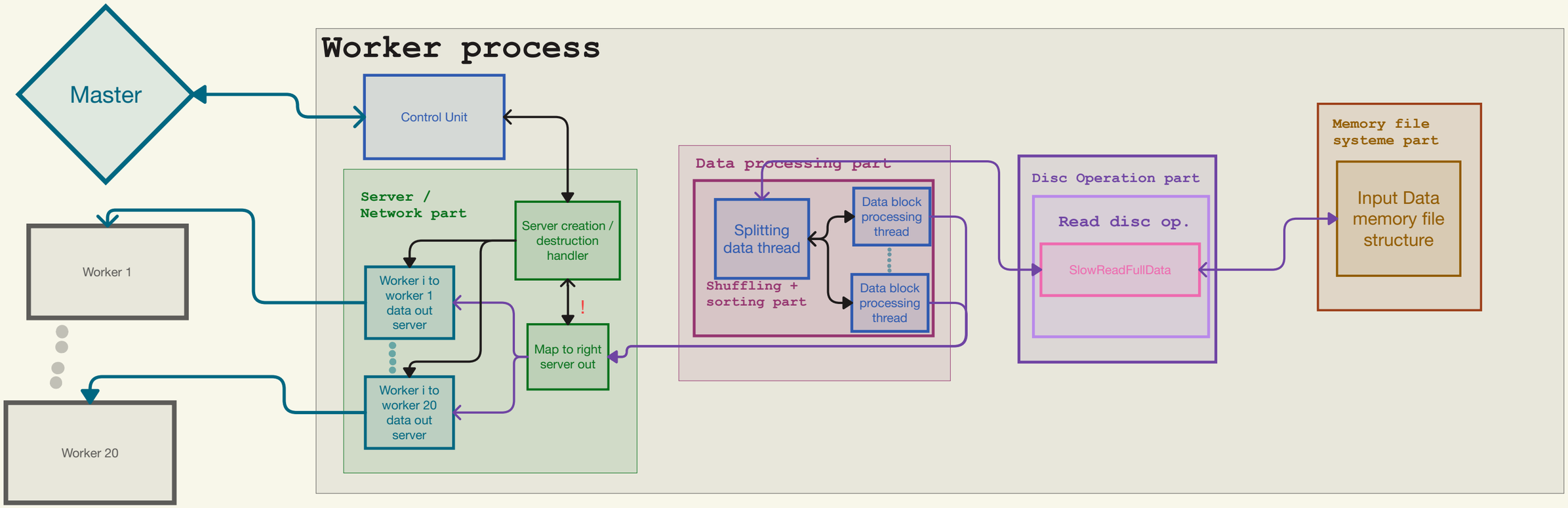
II partionning, data block processing & shuffelling

II.a receive request of partitioning from master server, start the server to connect with other worker and start the 2 main threads of this step.



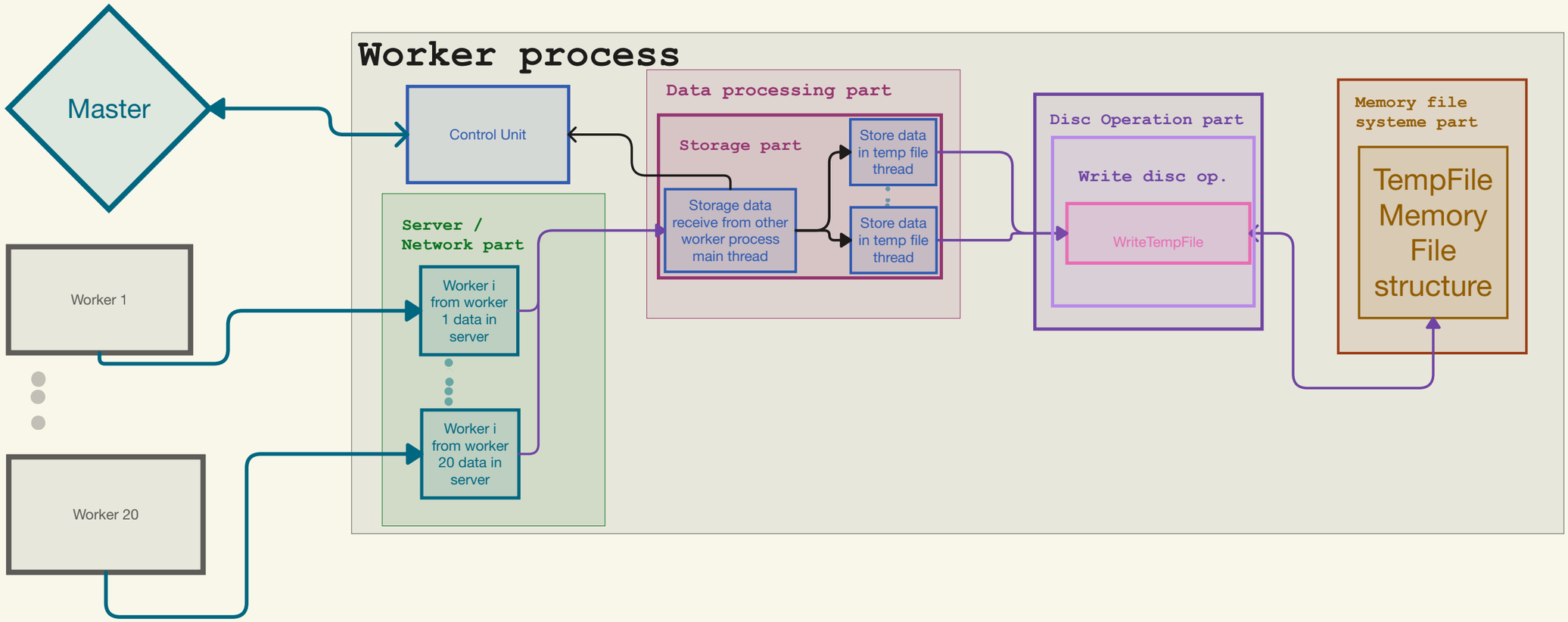
II partionning, data block processing & shuffelling

II.b start to partition the data input, starr sending data over network



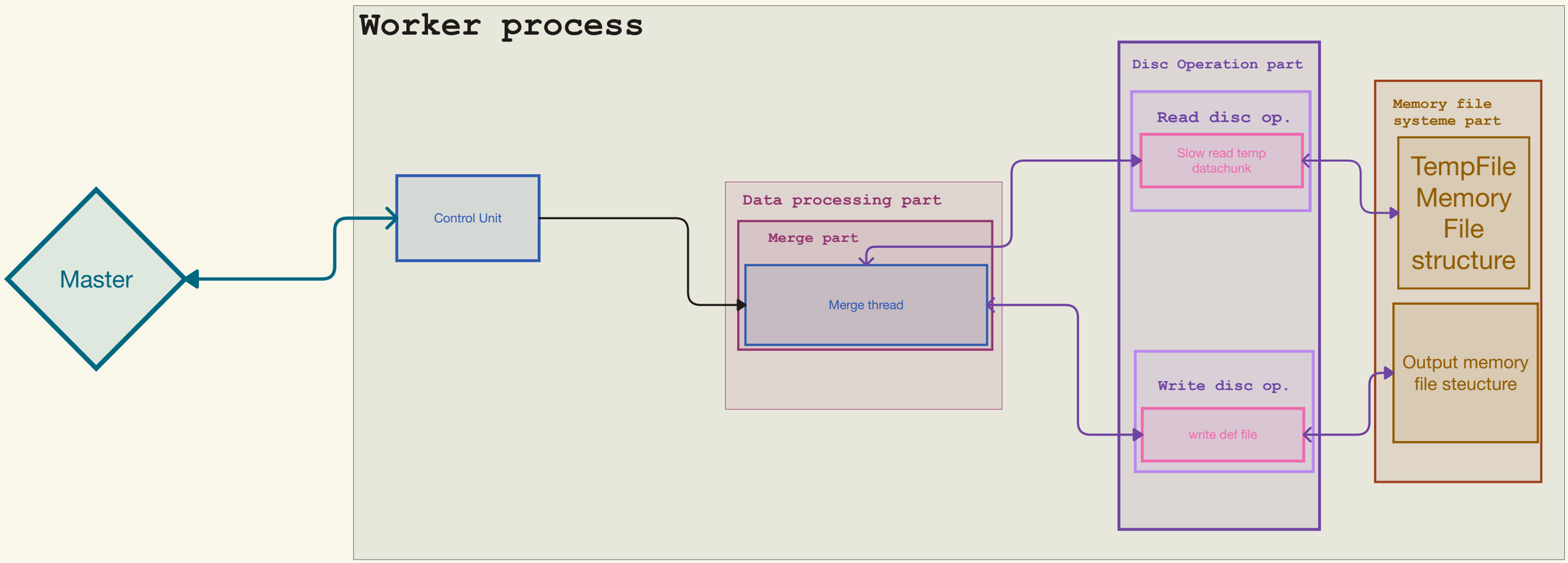
II partionning, data block processing & shuffelling

II.c receive data chunk from other worker



III Merge & End process

III.a merge all the file stores in temp. File. Store the result in final outpout



III Merge & End process

III.b end all of the process and delete all temp files.