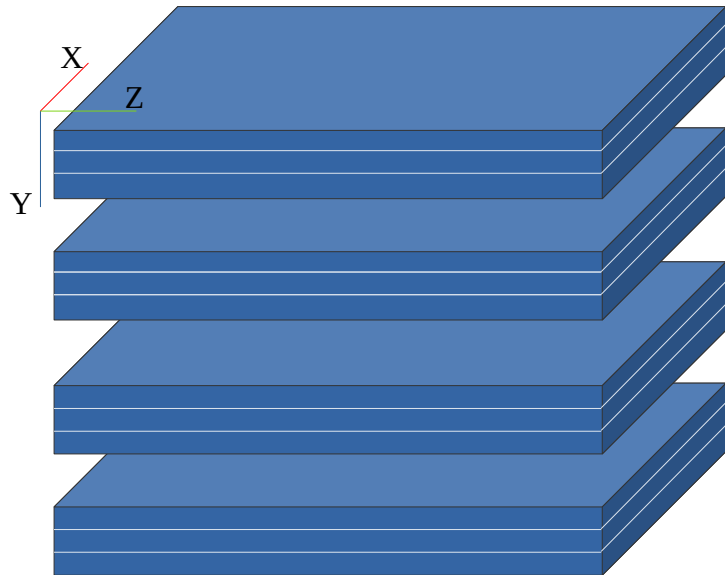Each of the 4 processes computes batches of 2-D FFTs of size $Nx*Ny$ using rocFFT.

After transposition with **MPI_Alltoall_w,** each of the 4 processes computes batches of 1-D FFTs of size Nz using rocFFT.