

$$f_k(i,j) = 0.25 * \{ [f(i,j+1) + f(i,j-1)] + [f(i+1,j) + f(i-1,j)] \}$$

At $j=nyp$ $\longrightarrow f(:,nyp+1)$

At $j=1$ $\longrightarrow f(:,0)$

} Elements are missing on each MPI process

