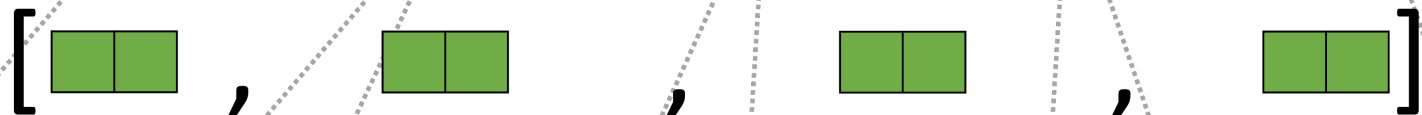


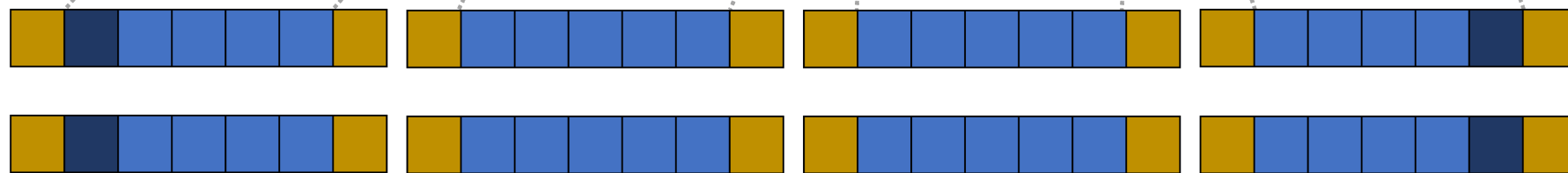
Global Array:



Halo Array:



Task Local Arrays:

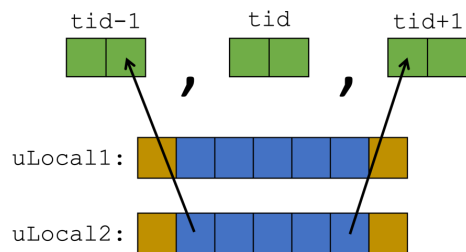


ω_{LocalHat}

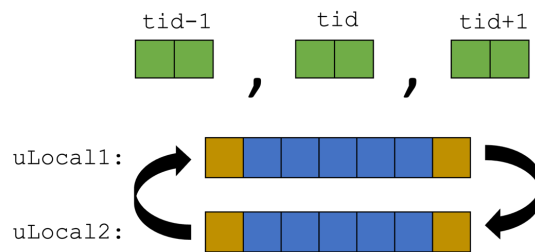
ω_{Local}

$\omega_{\text{LocalBuffered}}$

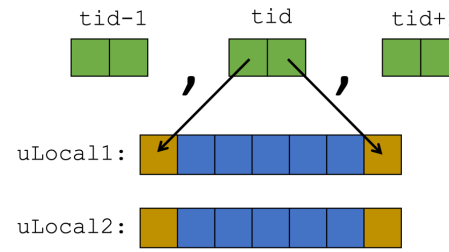
1. Copy edges into neighbor's halo cells



2. Swap local arrays



3. Copy halo cells into buffer cells



4. Stencil computation

