

## Exercise 3

### Exercise 3.1 - Cartesian Grids

$$I[i, j, k, l] = l \cdot Nz \cdot Ny \cdot Nx + k \cdot Ny \cdot Nx + j \cdot Nx + i = l \cdot K \cdot M \cdot N + k \cdot M \cdot N + j \cdot N + i$$

### Exercise 3.2 - ParaView Introduction: Point Splatting