Slab [1D-2D, Realigned] Pencil [Default, $P_2 = 4$] Pencil [Realigned, $P_2 = 4$] Pencil [Default, $P_2 = 8$] Pencil [Realigned, $P_2 = 8$] $\sum_{10^2} 10^3$ Pencil [Default, $P_2 = 16$] Pencil [Realigned, $P_2 = 16$] 10¹ | 10⁰ | 10⁰ 3D-FFT 128 128 128 256 256 256 256 256 2512 512 512 512 1024 1024 1024 2048 2048 2048