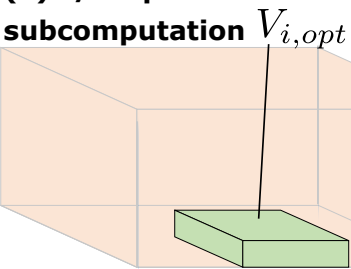
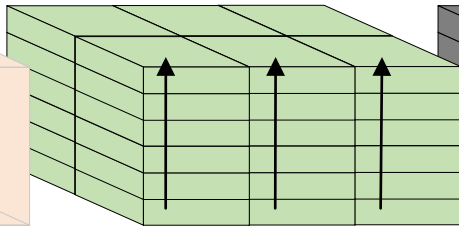


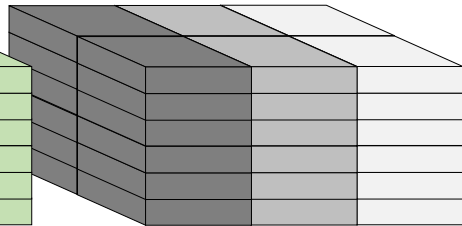
(a) I/O optimal subcomputation



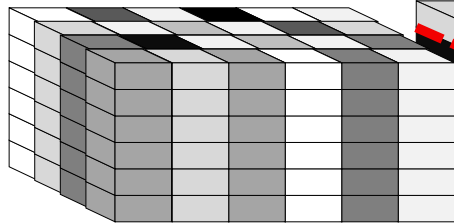
(b) Sequential schedule \mathcal{S}



(c) Parallel schedule $\mathcal{P}_{opt}, p = 3$

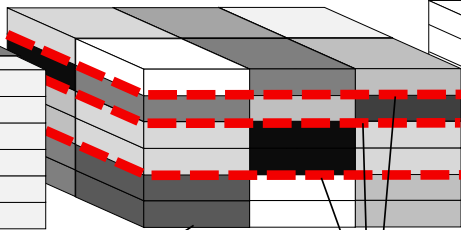


(d) $\mathcal{P}_{ij}, p = 24$



$$|V_i| < |V_{i,opt}|$$

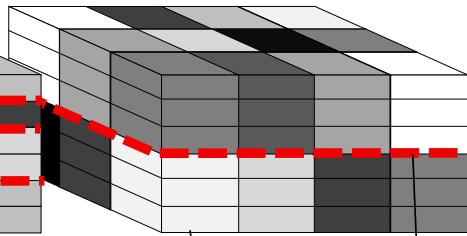
(e) $\mathcal{P}_{ijk}, p = 24$



$$|V_i| = |\hat{V}_{i,opt}|$$

Crossing dependencies!

(f) $\mathcal{P}_{cubic}, p = 24$



$$|V_i| < |V_{i,opt}|$$

Crossing dependencies!