

$N \uparrow \text{CPU}$. $M \uparrow \text{task}$.

task 1
 task 2
 3
 4
 \vdots
 $\text{task } N, N+1, \dots, M.$

$$\begin{aligned}
 R_k \quad k \in [N+1, M] &= \sum C_k + \sum S_k + \sum_{i=N, \dots, k-1} W_i(R_k) \\
 &\quad - (R_k - \sum_{i=1, N+1, \dots, k-1} W_i(R_k)) \\
 &\quad - (R_k - \sum_{i=2, N+1, \dots, k-1} W_i(R_k)) \\
 &\quad - \dots - (R_k - \sum_{i=N-1, N+1, \dots, k-1} W_i(R_k)) \\
 &\quad + (N-1) (\sum C_k + \sum S_k).
 \end{aligned}$$

$$\Rightarrow N \cdot R_k = N \cdot (\sum C_k + \sum S_k) + \sum_{i=1, \dots, N} W_i(R_k) + N \cdot \sum_{i=N+1, \dots, k-1} W_i(R_k).$$

$$\Rightarrow R_k = \sum C_k + \sum S_k + \frac{1}{N} \cdot \sum_{i=1, \dots, N} W_i(R_k) + \sum_{i=N+1, \dots, k-1} W_i(R_k)$$

$k \in [N+1, M]$