

3.1

1) ~~1+1.5+1.2+1.5+0.1+1.4=7.1~~, $\bar{T} = 2 + 0.1 = 2.1 \text{ ns}$

2) $S = CPI \cdot \frac{T_{new}}{T_0}$

$$= \frac{n+4}{n} \cdot \frac{2.1}{\bar{T}} = \frac{3(n+4)}{10\bar{T}}$$

~~n为固定数~~ ^{指代} $n \rightarrow S_{overall} = 33.3\%$

3) $S = CPI \cdot \frac{T_{new}}{T_{old}}$

$$\therefore = \frac{n+k+1}{N} \cdot \frac{\bar{T}+0.1}{\bar{T}}$$

$N > K$

$$\Rightarrow S = 1 \cdot \frac{\bar{T}+0.1}{\bar{T}}$$

$k \rightarrow 0$

$$\Rightarrow S = \frac{0.1}{\bar{T}}$$

$$\Rightarrow S_{overall} = 70$$



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