

1.(1) 流水化后  $T = t_{max} + t_{延} = 2 + 0.1 = 2.1 \text{ ns}$

(2).  $S = \frac{T_{old}}{T_{new}} = \frac{7}{2.1} = \frac{10}{3}$

(3) 无限多流水级 寄存器间  $t_{max} \rightarrow 0$   $T = t_{max} + t_{延} \rightarrow 0.1 \text{ ns}$

加速比极限  $S = \frac{7}{0.1} = 70$



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