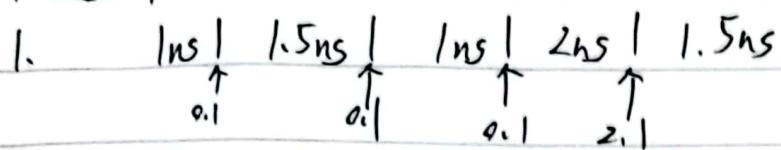


第三章 |



1. $T = 2.1 \text{ ns}$

2. $S = \frac{T \times CPI \times N}{T \times CPI \times N} = \frac{2.1}{7} \times \frac{N+54}{N}$
当 $N \rightarrow \infty$ 时 $S \approx \frac{2.1}{7} = 0.3$

加速比为 3.33

3. 无限时，每步 $t \rightarrow 0$

$\therefore T = 0.1 \text{ ns}$ 寄存器延迟

$$S \approx \frac{T}{T} = \frac{0.1}{7} = \frac{1}{70}$$

加速比极限为 70

