

日期: /

4. 4

1.

$$1). 2ns + 0.1ns = 2.1ns$$

$$2). S = \frac{T_{cycle,old}}{T_{cycle,new}} \cdot \frac{CPI_{old}}{CPI_{new}} = \frac{7ns}{2.1ns} \cdot \lim_{N \rightarrow \infty} \frac{N}{N+4} = 3.33$$

3). $T_{cycle,new}$ 趋近于 $0.1ns$

$$\Rightarrow S_{\infty} = \frac{7ns}{0.1ns} = 70$$