

4.4

$$(1) T = 2 \cdot \ln s$$

$$(2) S = \frac{T_{\text{old}}}{T} = \frac{7}{2-1} = 3.33$$

(3) 设有 n 级流水线，则每个阶段时间为 $T = \frac{7}{n} + 0.1$ $n \rightarrow \infty$ $T \rightarrow 0.1$

$$\therefore S_{\max} = \lim_{n \rightarrow \infty} \frac{T_{\text{old}}}{T} = \frac{7}{0.1} = 70$$