4.4   第七周

1. (1) $T_{cycle} = Max\{IF, ID, EX, MEM, WB\} + T_{锁存} = 2.1 ns$

(2) 加速比 $S \approx \dfrac{T_0}{T_{cycle}} = \dfrac{7}{2.1} \approx 3.33$

(3) 设流水线共 K 级，则 $S' = \lim\limits_{K \to \infty} \dfrac{7}{(\frac{7}{K} + 0.1)} = 70$

∴ 加速比极限为 70