

并行与分布式计算导论作业一

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1. 6个: $\frac{1}{40\% + \frac{60\%}{6}} = 2$

8个: $\frac{1}{40\% + \frac{60\%}{8}} = 2.11$

2. (1) 9-5-2-6-4-7, 总耗时 33 (因 task 设标号, 故用 weight 代称)

(2) 最大并行度: 3

处理器数: 2

调度: cpu0: 9-5-2-6-4-7

cpu1: 3-4-2-8

(3) $T_1 = 9 + 5 + 3 + 4 + 2 + 2 + 6 + 8 + 4 + 7 = 50$

$T_2 = T_3 = T_{\text{critical-path}} = 33$

$E_2 = T_1 / 2 \cdot T_2 = 0.76$

$E_3 = T_1 / 3 \cdot T_3 = 0.51$