

(1)7.5ns

(2)5

(3) $S=((7.5/N)+0.1)/7.5 * ((2N-1)/N) = (0.2N^2 - 14.9N - 7.5) / 7.5N^2 = 2/75(N \rightarrow \infty)$, 所以加速比为 37.5