

$$\text{Speedup}(N, M, K) = \frac{t_{\text{ser}}}{t_{\text{par}}} = \frac{t_{\text{ser}}}{\frac{N}{H \rightarrow D_s} + \frac{N}{D \leftrightarrow D_s} + 2M \left( \frac{\lambda}{K} t_{\text{sub}} + \frac{N}{D \leftrightarrow D_s} \right) + \frac{N}{D \rightarrow H_s}}$$