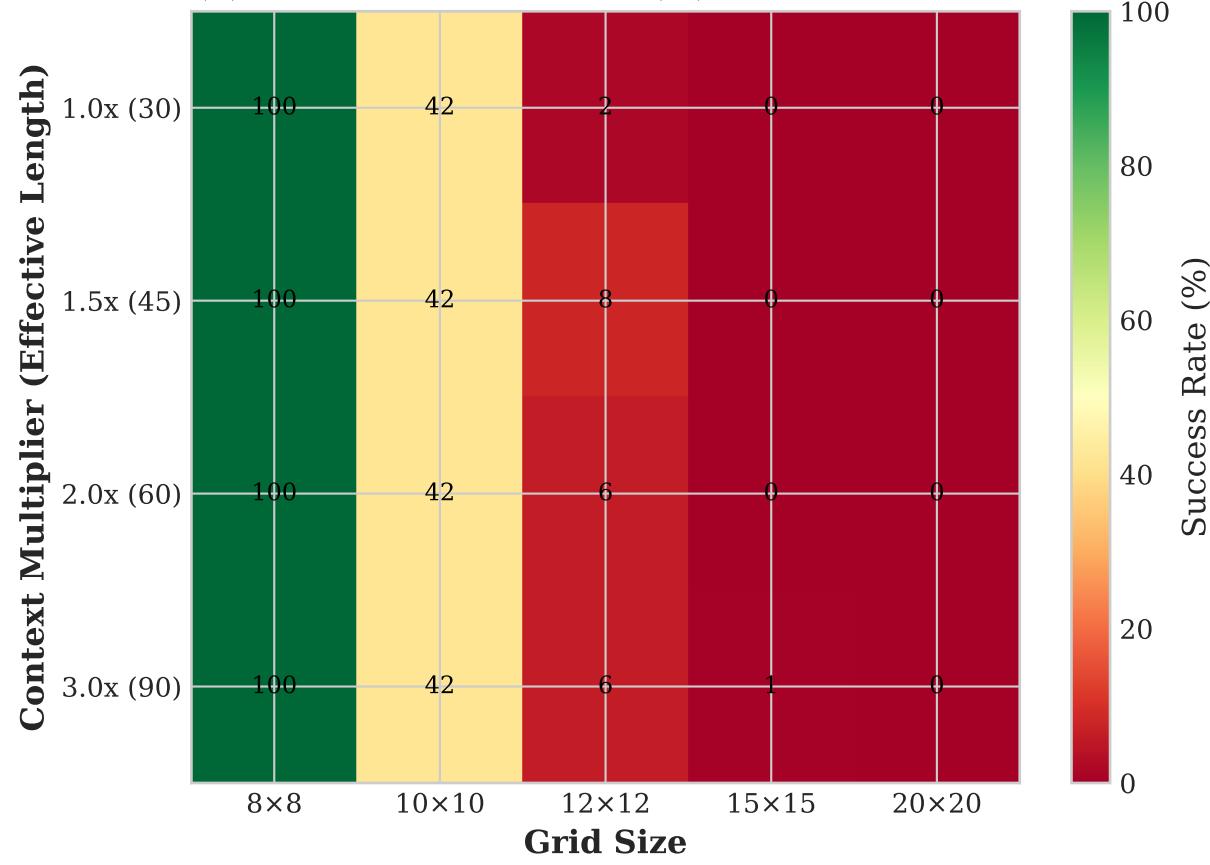
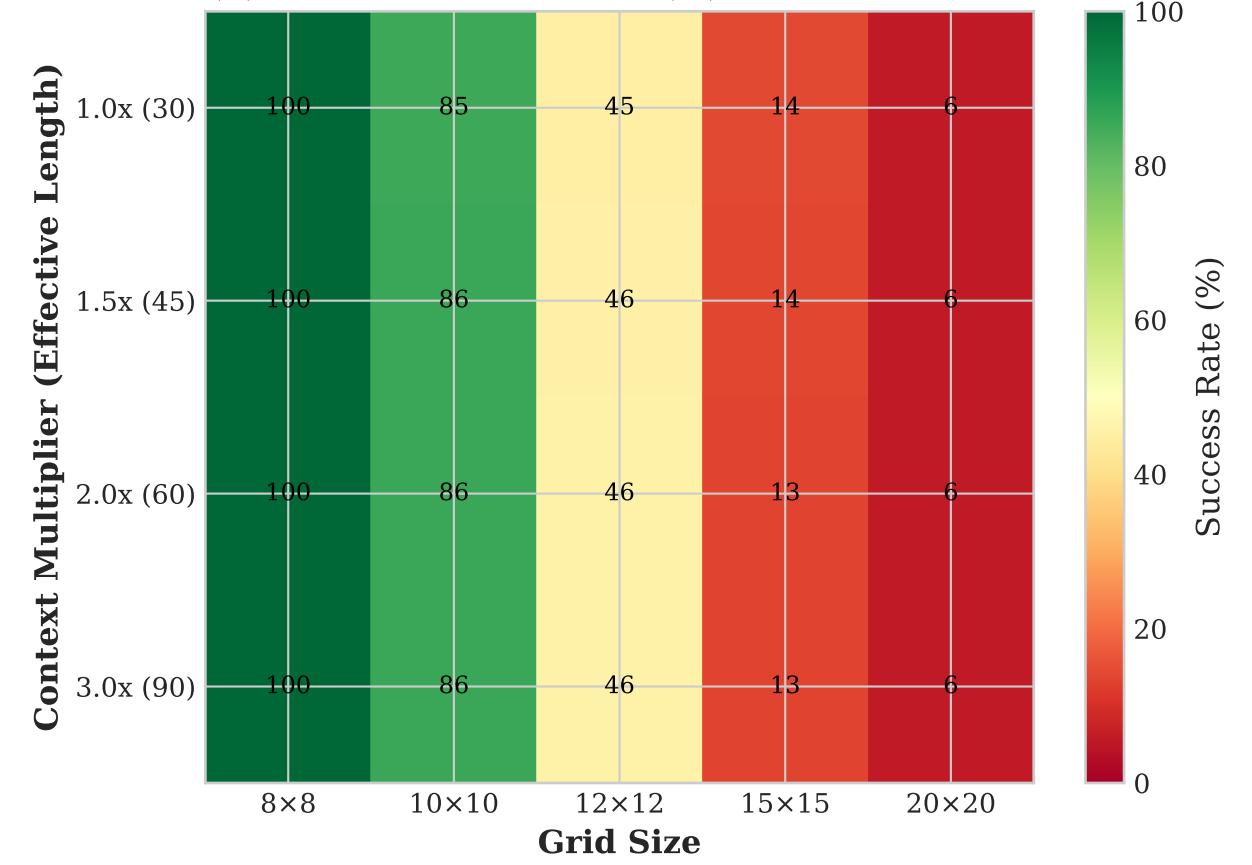


# Context Length Scaling Analysis: Sinus vs RoPE

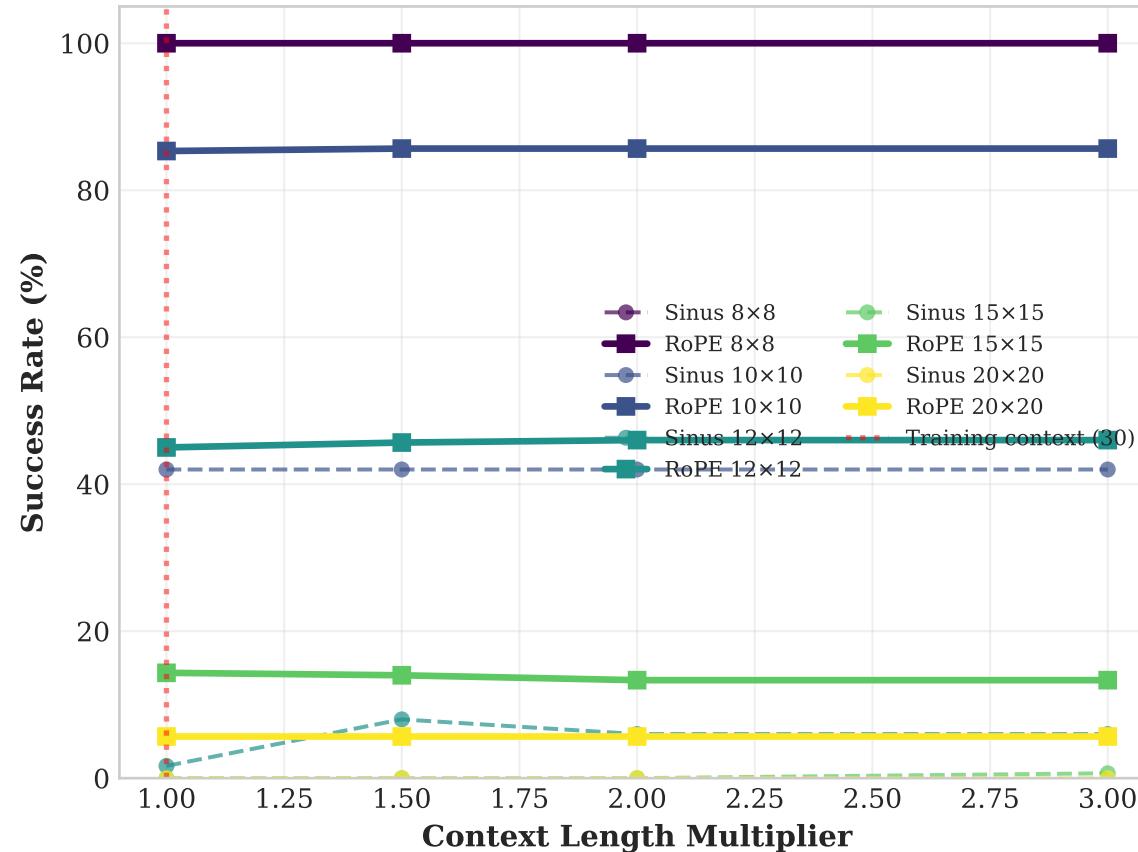
**(a) Sinus Success Rate (%)**



**(b) RoPE Success Rate (%)**



**(c) Context Scaling Curves by Grid Size**



**(d) RoPE vs Sinus Performance Gap**

