



Below we see the data I obtained from running codes that perform different multiplication throughout different sizes using Scaler(Ordinary) operation and Vector (using SSE instructions )

Vector- Vector Multiplication			
Input Size	Scaler	Vector	Improvement%
128	0.000000	0.000000	1.853659
256	0.000001	0.000000	1.953541
512	0.000001	0.000000	2.152437

Matrix- Vector Multiplication			
Input Size	Scaler	Vector	Improvement%
128	0.000033	0.000016	2.020121
256	0.000132	0.000060	2.179668
512	0.000520	0.000231	2.255356

Matrix- Matrix Multiplication			
Input Size	Scaler	Vector	Improvement%
128	0.004771	0.002044	2.333614
256	0.037737	0.015329	2.461749
512	0.561957	0.217095	2.588531