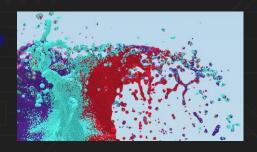
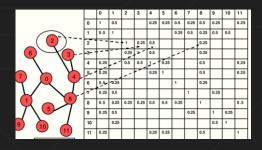


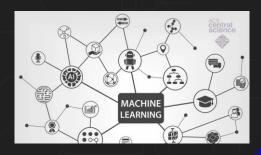
BACKGROUND



Scientific Computing



Graph Algorithms



Machine Learning



OUR IMPLEMENTATIONS



Sparse Matrix Representation

1	0	0
0	2	0
0	3	0

Row pointers

0	1	2	3
	1		

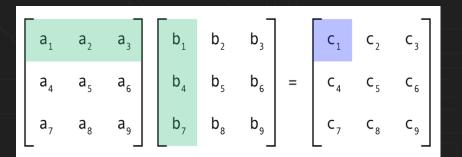
Column indices

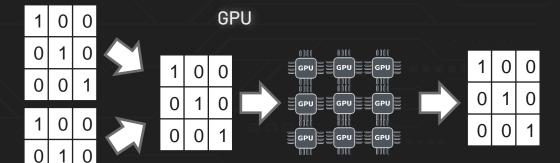
0	1	1
		l

Values

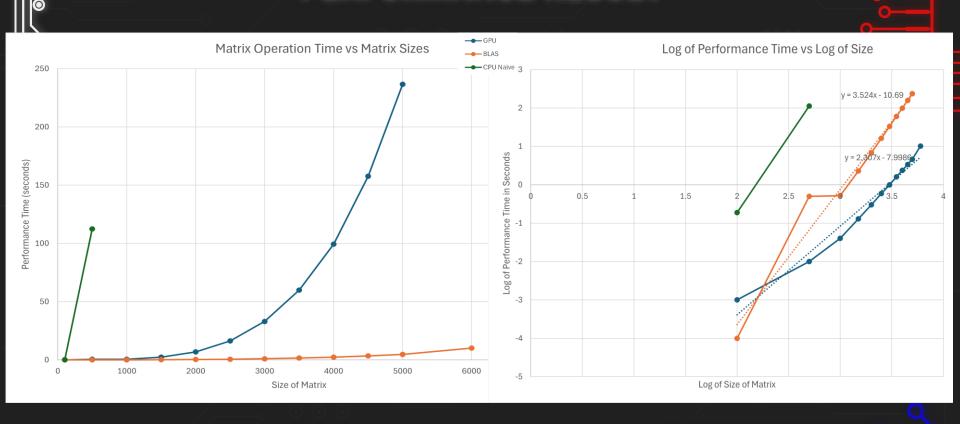
0

Serial

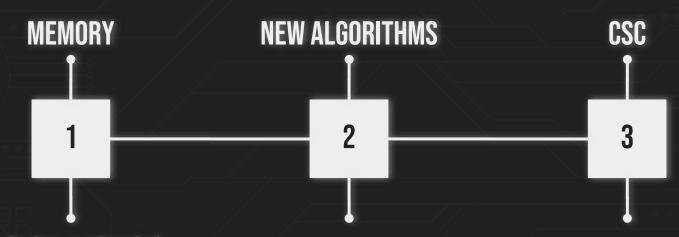




PERFORMANCE RESULT







Reducing overhead of host-device communication.

Gustavson's Algorithm.

Compressed sparse column