




COA LAB

MIDSEM PROJECT



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TEAM MEMBERS

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Application: **pathfinder**

Inputs: **100 100 20**

No. of warps: **24**

KERNEL 1

	Kernel	
	Checked	Not Checked
Issued	7124	1627
Waiting	38325	5601
XALU	106	1019
XMEM	1057	105
Others	49763	4302
Warp Done	409077	142482
Control Hazard	324	0

KERNEL 2

	Kernel	
	Checked	Not Checked
Issued	7124	1669
Waiting	38713	5626
XALU	110	1019
XMEM	527	110
Others	41702	4247
Warp Done	368155	142482
Control Hazard	324	0

KERNEL 3

	Kernel	
	Checked	Not Checked
Issued	7124	1618
Waiting	37825	5637
XALU	114	1007
XMEM	522	106
Others	41459	4299
Warp Done	362837	142482
Control Hazard	324	0

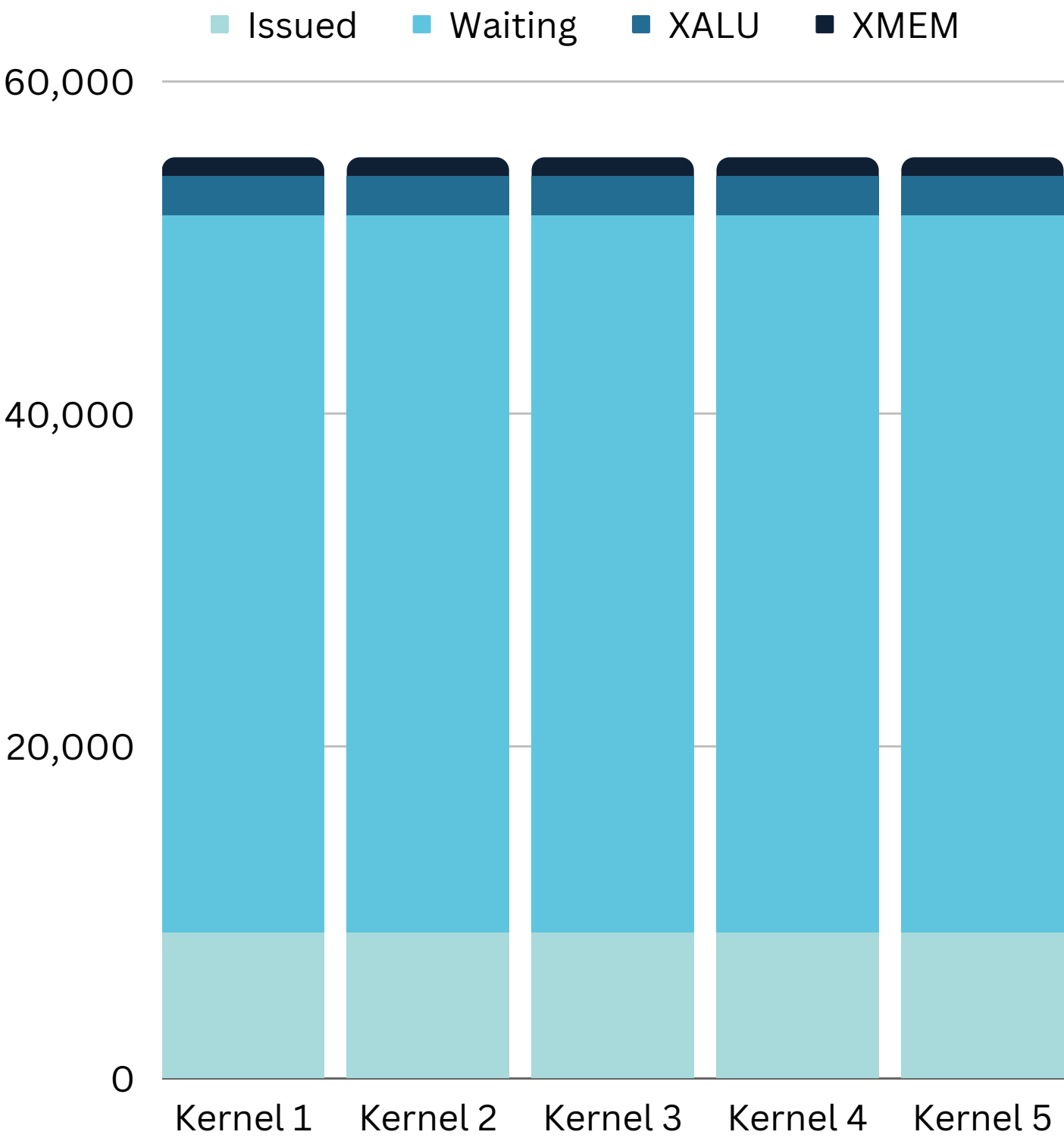
KERNEL 4

	Kernel	
	Checked	Not Checked
Issued	7124	1657
Waiting	38204	5651
XALU	115	1016
XMEM	526	111
Others	41227	4272
Warp Done	363435	142492
Control Hazard	324	0

KERNEL 5

	Kernel	
	Checked	Not Checked
Issued	6784	1538
Waiting	36224	5357
XALU	107	973
XMEM	522	107
Others	40518	4099
Warp Done	351797	135682
Control Hazard	308	0

APPLICATION 1: WARP STATE BREAKDOWN



Application:

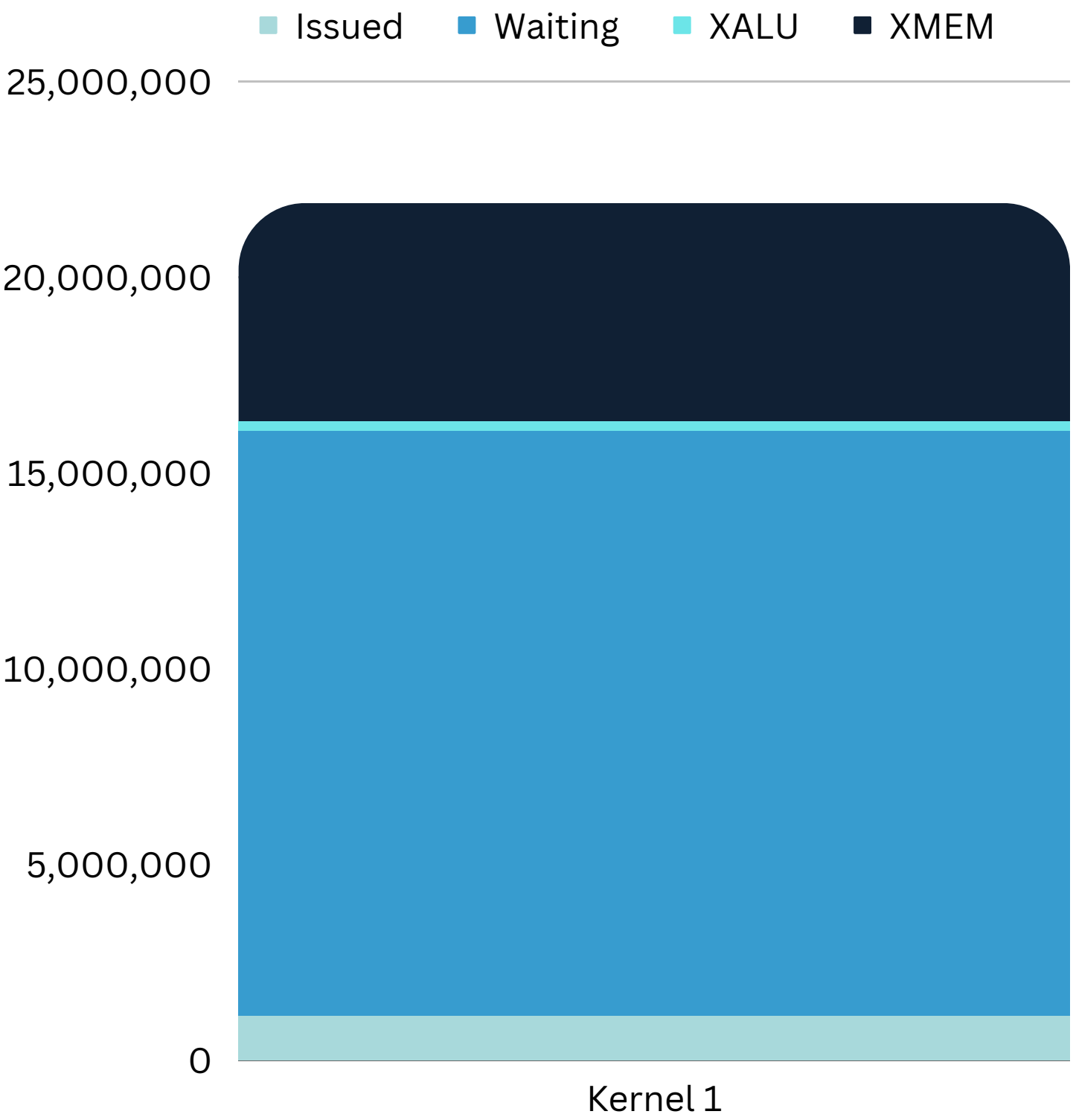
matrix multiplication

Matrices dimensions: (128,128) , (128,128)

KERNEL 1

	Kernel	
	Checked	Not Checked
Issued	460800	662864
Waiting	12998902	1921757
XALU	68972	179261
XMEM	4595900	977413
Others	1233648	288950
Warp Done	12373259	4370942
Control Hazard	16896	36

APPLICATION 2: WARP STATE BREAKDOWN



Application:

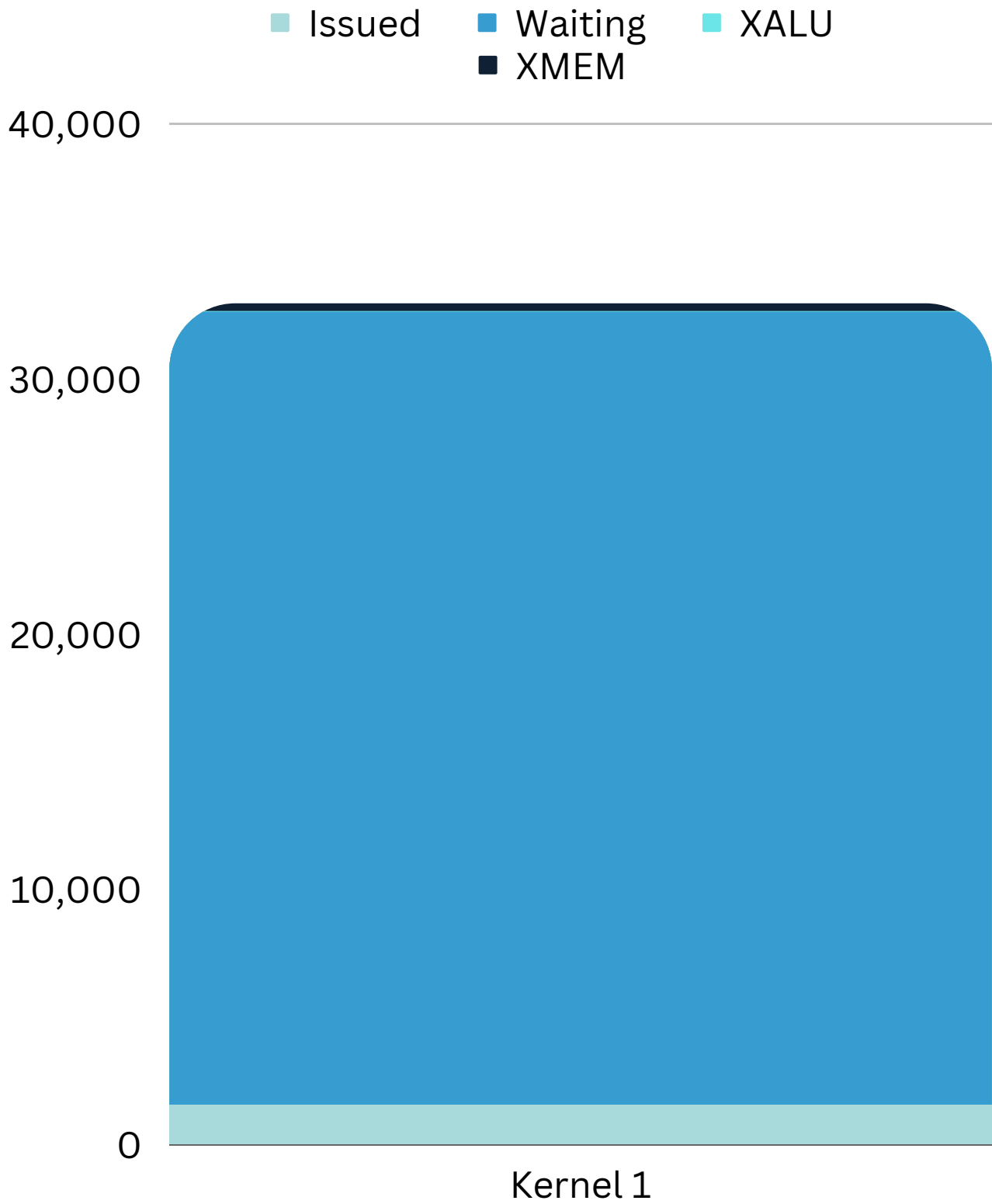
vector addition

Vectors dimensions : 2048

KERNEL 1

	Kernel	
	Checked	Not Checked
Issued	1408	143
Waiting	30607	436
XALU	0	29
XMEM	169	131
Others	49267	132
Warp Done	818646	30712
Control Hazard	0	0

APPLICATION 2: WARP STATE BREAKDOWN



CONCLUSION:

From the data, it was observed that the majority of warps is in waiting state. The frequency of issued state is almost in the same proportion. The Xmem and Xalu states' frequencies vary from application to application.

The image features a minimalist design with a white background. In the top right and bottom left corners, there are overlapping geometric shapes: a dark navy blue triangle and a mustard yellow triangle. Centered in the middle of the page is the text "THANK YOU!" in a bold, dark navy blue, sans-serif font.

**THANK
YOU!**