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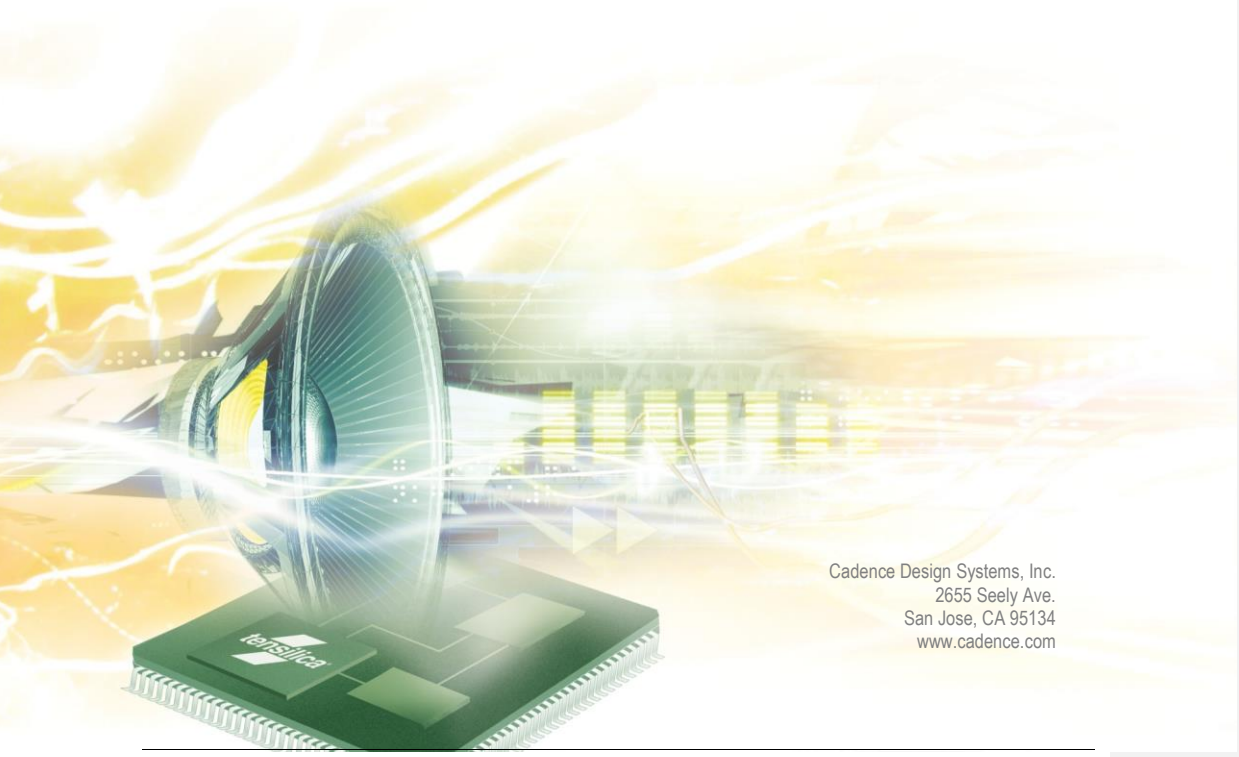
Fusion G3 Neural Network Library

Test report



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Contents

Document Change History

Version	Changes
1.0	Initial version
1.1	Updated test report with sub, div, slice, permute, mean, exp kernels. Updated Accuracy error section for sub, div, slice, permute, mean, exp kernels. As more testcases added, the resultant accuracy got changed. Added API tests

1.Introduction

The Fusion G3 Neural Network (NN) Library is an optimized implementation of various low-level NN kernels. The low-level NN kernels are the basic building blocks for operators and networks in neural network frameworks with a generic and simple interface.

The Fusion G3 NN Library package includes the source code containing low-level kernel implementations. The current version of the library implements activation, basic operation, normalization and reorg functions as low-level kernels.

This document details the tests performed on Fusion G3 NN library kernels.

Note	This version of the library supports Fusion G3 DSPs with the SP-VFPU (Single Precision Vector Floating Point Unit).
Note	This version of the Fusion G3 NN Library is tested with the xt-clang/xt-clang++ compilers using Xtensa Software Tools from RI-2022.10 release.

2. Fusion G3 NN Library tests

The details of the tests performed on the FusionG3 NN library and Executorch operators are provided in the next sections.

The following table provides details of the library version, core information and build target used for producing the performance data.

Table 2-1 Details of Setup Used for tests

Library Name	FusionG3 Neural Network Library
Library Version	1.1
Library API Version	1.1
Core Name	FusionG3
Tool Chain	RI-2022.10
Build Target	Release

2.1 Accuracy tests

Executorch on x86 platform is used as reference to verify accuracy of Fusion G3 NN library. The kernels are divided into 2 categories – single precision float kernels and integer kernels. For validating kernels with single precision float, ULP (Unit of Least Precision) error is used as metric. For validating kernels with integer data types, bit error (how many LSBs have error) is used as metric.

The following sections show the results in the form of tables. The first row specifies the different input ranges used for verification of the kernel. The next rows specify the maximum bit error observed in the case of kernels with integer datatypes or maximum ULP error in the case of kernels with single precision floating point.

2.1.1 Kernels with integer datatypes

- **Addition** - 32-bit

Input range	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[0, 65535]	[-2^15, 2^15)	[0, 255]	[-128, 127]
Max error (bits)	0	0	0	0	0	0	0

- **Multiplication** - 32-bit

Input range	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[-1, 1]	[-2^15, 2^15)	[0, 255]	[-128, 127]
Max error (bits)	0	0	0	0	0	0	0

- **Quantization** - 4-bit, 8-bit, 16-bit

Input range	[-2^31, 2^31)	[-2^15, 2^15)	[-2^7, 2^7)	[-1, 1]	[-2^15, 1]	[1, 2^15)	[-100, 100]
Max error (bits)	0	0	0	0	0	0	0

- **Division** - 32-bit

Input range	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[-1, 1]	[-2^15, 2^15)	[0, 255]	[-128, 127]
Max error (bits)	1	3	1	1	1	1	1

Out_ref	Out_dut	Max number of bits
36698100	36698104	3

- **Subtraction** - 32-bit

Input range	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[-1, 1]	[-2^15, 2^15)	[0, 255]	[-128, 127]
Max error (bits)	0	0	0	0	0	0	0

- **Concatenation** - 8-bit, 16-bit, 32-bit

Input range	8-bit Signed	8-bit Unsigned	16-bit Signed	16-bit Unsigned	32-bit Signed	32-bit Unsigned
	[-2^7, 2^7-1]	[0, 2^8)	[-2^15, 2^15)	[0, 2^16)	[-2^31, 2^31)	[0, 2^32)
Max error (bits)	0	0	0	0	0	0

- **Transpose** - 8-bit, 16-bit, 32-bit

Input range	8-bit Signed	8-bit Unsigned	16-bit Signed	16-bit Unsigned	32-bit Signed	32-bit Unsigned
	[-2^7, 2^7-1]	[0, 2^8)	[-2^15, 2^15)	[0, 2^16)	[-2^31, 2^31)	[0, 2^32)
Max error (bits)	0	0	0	0	0	0

- **Permute** - 8-bit, 16-bit, 32-bit

Input range	8-bit Signed	8-bit Unsigned	16-bit Signed	16-bit Unsigned	32-bit Signed	32-bit Unsigned
	[-2^7, 2^7-1]	[0, 2^8)	[-2^15, 2^15)	[0, 2^16)	[-2^31, 2^31)	[0, 2^32)
Max error (bits)	0	0	0	0	0	0

- **Slice_copy** - 8-bit, 16-bit, 32-bit

Input range	8-bit Signed	8-bit Unsigned	16-bit Signed	16-bit Unsigned	32-bit Signed	32-bit Unsigned
	[-2^7, 2^7-1]	[0, 2^8)	[-2^15, 2^15)	[0, 2^16)	[-2^31, 2^31)	[0, 2^32)
Max error (bits)	0	0	0	0	0	0

- **Clamp** - 8-bit, 16-bit

Input range	8-bit Signed	8-bit Unsigned	16-bit Signed
	[-2^7, 2^7-1]	[0, 2^8)	[-2^15, 2^15)
Max error (bits)	0	0	0

2.1.2 Kernels with single precision float datatypes

- **Addition**

Input range	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[0, 65535]	[-2^15, 2^15)	[0, 255]	[-1, 1]	[-128, 127]
Max ULP error	26	1	1	1	1	1	324194	3

Below are the reference and Fusion G3 kernel output values where the maximum ULP is seen in each of the test cases mentioned above.

Out_ref	Out_dut	Ulp_error
0.00000041723251342773437500	0.00000040801836576065397821400	324194
29058432.0	29058484.0	26
271818624.0	271818688.0	26

Reason - In ADD kernel, MULA (multiply and accumulate) is used to perform multiply and accumulate operation. Upon replacing the MULA instruction with separate MUL and ADD instructions, observed ULP error as mentioned in the below table. However, according to the FusionG3 instruction manual, the MULA instruction is designed to generate more precise output compared to using the individual MUL and ADD operations. This suggests that Executorch on x86 is generating lower precision results in these cases. These results are manually verified by using data that gave maximum ULP error, confirming this behavior. As a result, opting to retain the MULA instruction in the code.

Input range	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[0, 65535]	[-2^15, 2^15)	[0, 255]	[-1, 1]	[-128, 127]
Max ULP error	0	0	0	0	0	0	0	0

- **Multiplication**

Input range	-2^31 to 2^31 -1	0 to 2^31 -1	-2^31 to 0	0 to 65535	-2^15 to 2^15 - 1	0 to 255	-128 to 127
Max ULP error	0	0	0	0	1	1	1

- **Subtraction**

Input range	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[0, 65535]	[-2^15, 2^15)	[0, 255]	[-128, 127]	[-1, 1]
Max ULP error	6	22	66	1	1	50	452	509771

Below are the reference and Fusion G3 kernel output values where the maximum ULP is seen in each of the test cases mentioned above.

Out_ref	Out_dut	Ulp_error
-104738432.0	-104738480.0	6
12570752.0	12570730.0	22
-1784256.0	-1784247.75	66
1.4210662841796875	1.4210722446441650391	50

0.19732666015625	0.197333395481109	452
0.00000037211643189039	0.000000357627868652343	509771

In SUB kernel, MULS (multiply and accumulate) is used to perform multiply and accumulate operation. Upon replacing the MULS instruction with separate MUL and SUB instructions, observed ULP error as mentioned in the below table. However, according to the FusionG3 instruction manual, the MULS instruction is designed to generate more precise output compared to using the individual MUL and SUB operations. This suggests that Executorch on x86 is generating lower precision results in these cases. These results are manually verified by using data that gave maximum ULP error, confirming this behavior. As a result, opting to retain the MULS instruction in the code.

Input range	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[0, 65535]	[-2^15, 2^15)	[0, 255]	[-128, 127]
Max ULP error	0	0	0	0	0	0	0

- **Division**

Input range	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[-1, 1]	[-2^15, 2^15)	[0, 255]	[-128, 127]
Max ULP error	1	3	1	0	0	0	1

Out_ref	Out_dut	Ulp_error
42884152	42884156	3

- **Tanh**

Input range	[-5, 5]	[-1, 1]	[0, 5]	[-5, 0]	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[-2^15, 2^15)

Max ULP error	1	1	1	1	0	0	0	0

- **Sigmoid**

Input range	[-5, 5]	[-1, 1]	[0, 5]	[-5, 0]	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[-2^15, 2^15)
Max ULP error	1	1	1	1	0	0	0	0

- **Dequantize** (4-bit, 8-bit, 32-bit)

Input range	[-2^31, 2^31)	[-2^15, 2^15)	[-2^7, 2^7)	[-1, 1]	[-2^15, 1]	[1, 2^15]	[-100, 100]
Max ULP error	0	0	0	0	0	0	0

- **Sqrt** – Square root

Input range	[0, 2^31)	[0, 2^15)	[0, 1]	[0, 255]	[2500, 500000]	[0, 272024]
Max ULP error	0	0	0	0	0	0

- **Rsqrt** – Inverse square root

Input range	[0, 2^31)	[0, 2^15)	[0, 1]	[0, 255]	[2500, 500000]	[0, 272024]
Max ULP error	1	0	1	1	1	1

- **Exponent**

Input range	[-2^7, 2^7)	[0, 103]	[-103, 0]	[-1, 1]	[-2^6, 2^6]	[-15, 15]	[-2^5, 2^5]
Max ULP error	1	1	1	1	1	1	1

- **Softmax**

Input range	[-5, 5]	[-1, 1]	[0, 5]	[-5, 0]	[-2^31, 2^31)	[0, 2^31)	[2^31, 0]	[-2^15, 2^15)
Max ULP error	3	4	4	2	0	0	0	0

- **Native layernorm**

Input range / Max ULP error	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[-1, 1]	[-2^15, 2^15)	[0, 255]	[-1024, 0]
W: [-2^15, 2^15) B:[-1, 1]	2073	3960	847	67	1	754	13481
W: [-2^8, 2^8] B: [-2^6, 2^6]	1104	2347	31689	185	123	98	5373
W: (-1, 1) B: (-2^10, 2^10)	0	1	1	1	1610	1	1

Below table lists the reference and DUT values for each of the test cases where the maximum ULP error seen is more than 3.

For case 1:

Out_ref	Out_dut	Ulp_error
-0.058274686336517333984380	-0.058282408863306045532230	2073

6.29890298843383789060	6.29701471328735351560	3960
34.97669982910156250	34.9734687805175781250	847
99.78234863281250	99.781837463378906250	67
-13052.355468750	-13052.34863281250	7
-23874.964843750	-23874.9511718750	7
12.79699802398681640630	12.79771709442138671880	754
13.83341884613037109380	13.82056236267089843750	13481

For case 2:

Out_ref	Out_dut	Ulp_error
-0.085777282714843750	-0.0857855081558227539O	1104
0.03700447082519531250	0.0370132140815258026123O	2347
0.006672859191894531250	0.00668761553242802619934O	31689
-0.934104919433593750	-0.93409389257431030270	185
0.653556823730468750	0.6535641551017761230	123
3.540779113769531250	3.54075574874877929690	98
0.456047058105468750	0.45588693022727966310	5373

For case 3:

Out_ref	Out_dut	Ulp_error
-0.785789489746093750	- 0.78569352626800537110	1610

Below table lists the ULP error when high precision Layer norm kernel is enabled. Please note that there will be a compromise on the performance in terms of cycles when high precision layer norm is enabled.

Input range/Max ULP error	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[-1, 1]	[-2^15, 2^15)	[0, 255]	[-1024, 0]
W: [-2^15, 2^15) B: [-1, 1]	0	0	0	0	0	0	0
W: [-2^8, 2^8] B: [-2^6, 2^6]	0	0	0	0	0	0	0
W: (-1, 1) B: (-2^10, 2^10)	0	0	0	0	0	0	0

- **Mean**

Input range	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[-1, 1]	[-2^15, 2^15)	[0, 255]	[-128, 127]
Max error	1068	47	8	121	26	29127	1318

Out_ref	Out_dut	Ulp_error
77442.78125	77434.4375	1068
1070614272	1070617280	47
-1048641408	-1048641920	8

0.0005965929012745618820 2	0.0005965999444015324115 8	121
-82.5307159423828125	-82.530914306640625	26
-0.0006612141733057796955 1	-0.0006595187587663531303 4	29127
0.0037878628354519605636 6	0.0037881697062402963638 3	1318

The reason for the accuracy difference with respect to the reference is that, in the kernel implementation, for higher performance, the order of accumulation is changed.

- **Where**

Input range	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[-1, 1]	[-2^15, 2^15)	[0, 255]	[-128, 127]
Max error	0	0	0	0	0	0	0

- **Less than**

Input range	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[-1, 1]	[-2^15, 2^15)	[0, 255]	[-128, 127]
Max error	0	0	0	0	0	0	0

- **Clamp**

Input range	[-2^31, 2^31)	[0, 2^31)	[-2^31, 0]	[-1, 1]	[-2^15, 2^15)	[0, 255]	[-128, 127]
Max error	0	0	0	0	0	0	0

2.2 Unit tests

2.2.1 Functional tests

The table below lists parameters with which kernels are tested and ULP error or bit error is generated which is mentioned in the previous section. “Kernel name” column specifies the kernel name, “Parameters” column specifies the input shapes used for testing.

Kernel name	Parameters
xa_nn_elm_add_32x32_32	Inp1: 3, 2, 2, 1 Inp2: 3, 2, 2, 1
	Inp1: 7 3 1 5 Inp2: 7 3 1 5
	Inp1: 10 10 5 4 4 Inp2: 10 10 5 4 4

Kernel name	Parameters
	Inp1: 8 5 10 2 10 Inp2: 8 5 10 2 10
	Inp1: 7 3 5 Inp2: 7 3 5
	Inp1: 5 3 10 Inp2: 5 3 10
xa_nn_elm_add_scalar_32x32_32	Inp1: 4, 4, 1 Inp2: 1
	Inp1: 3, 10, 7 Inp2: 1
	Inp1: 2, 6, 6, 7 Inp2: 1
	Inp1: 8, 8, 7, 9 Inp2: 1
	Inp1: 10, 7, 5, 10, 2 Inp2: 1
	Inp1: 4, 4, 10 Inp2: 1
	Inp1: 1, 2, 8, 9 Inp2: 1
	Inp1: 7, 7, 7, 7 Inp2: 1
	Inp1: 3, 2, 8, 5 Inp2: 1
xa_nn_elm_add_broadcast_5D_32x32_32	Inp1: 3, 1, 3, 5 Inp2: 3, 5, 3, 5
	Inp1: 15, 15, 1, 10, 13 Inp2: 15, 1, 16, 10, 13
	Inp1: 1, 1, 11 Inp2: 8, 8, 11
	Inp1: 10, 48, 12, 54, 17 Inp2: 10, 1, 12, 54, 17
	Inp1: 65, 1 inp2: 65, 43
	Inp1: 5, 14, 71, 11, 1 Inp2: 5, 14, 71, 1, 23
	Inp1: 1, 160, 7, 7 Inp2: 34, 160, 7, 7
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1
	Inp1: 1, 1, 1, 1, 1 Inp2: 1, 2, 3, 2, 2
	Inp1: 3, 2, 3, 2, 2 Inp2: 1, 1, 1, 1, 1
	Inp1: 3, 2, 1, 2, 1 Inp2: 1, 2, 3, 2, 1

Kernel name	Parameters
	Inp1: 3, 2, 2, 1, 1 Inp2: 3, 2, 2, 1, 1
	Inp1: 2, 3, 1, 1, 1 Inp2: 2, 3, 1, 1, 1
	Inp1: 1, 3, 2, 3, 1 Inp2: 1, 3, 2, 3, 1
xa_nn_elm_mul_32x32_32	Inp1: 3, 8, 8, 2 Inp2: 3, 8, 8, 2
	Inp1: 2, 8, 8, 4 Inp2: 2, 8, 8, 4
	Inp1: 9, 10, 4 Inp2: 9, 10, 4
	Inp1: 7, 8, 9, 6 Inp2: 7, 8, 9, 6
	Inp1: 10, 8, 2, 6 Inp2: 10, 8, 2, 6
	Inp1: 9, 7, 3, 8 Inp2: 9, 7, 3, 8
	Inp1: 4, 10, 2, 4 Inp2: 4, 10, 2, 4
	Inp1: 7, 7, 9 Inp2: 7, 7, 9
	Inp1: 6, 6, 4 Inp2: 6, 6, 4
	Inp1: 7, 7, 8 Inp2: 7, 7, 8
	Inp1: 9, 2, 4, 5 Inp2: 9, 2, 4, 5
	Inp1: 17, 4, 8 Inp2: 17, 4, 8
xa_nn_elm_mul_scalar_32x32_32	Inp1: 3, 6 Inp2: 1
	Inp1: 1, 2, 7, 4 Inp2: 1
	Inp1: 6, 5, 9, 4 Inp2: 1
	Inp1: 10, 2, 9, 8 Inp2: 1
	Inp1: 10, 10, 7, 1, 10 Inp2: 1
	Inp1: 8, 1, 6, 2, 7 Inp2: 1
	Inp1: 4, 8, 9 Inp2: 1
	Inp1: 10, 3, 3 Inp2: 1
	Inp1: 4, 7, 4 Inp2: 1

Kernel name	Parameters
	Inp1: 5, 7, 1, 9 Inp2: 1
	Inp1: 7, 6, 9 Inp2: 1
xa_nn_elm_mul_broadcast_5D_32x32_32	Inp1: 13, 15, 1, 19 Inp2: 13, 15, 65, 19
	Inp1: 15, 10, 5, 30, 18 Inp2: 15, 1, 5, 30, 18
	Inp1: 18, 8, 14 Inp2: 18, 8, 1
	Inp1: 12, 35, 1, 17, 17 Inp2: 12, 35, 52, 17, 17
	Inp1: 8, 9, 15, 1 Inp2: 8, 9, 15, 5
	Inp1: 1, 1, 1, 1, 1 Inp2: 1, 21, 224, 224, 17
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1
	Inp1: 1, 1, 1, 1, 1 Inp2: 1, 2, 3, 2, 2
	Inp1: 3, 2, 3, 2, 2 Inp2: 1, 1, 1, 1, 1
	Inp1: 3, 2, 1, 2, 1 Inp2: 1, 2, 3, 2, 1
	Inp1: 3, 2, 2, 1, 1 Inp2: 3, 2, 2, 1, 1
	Inp1: 2, 3, 1, 1, 1 Inp2: 2, 3, 1, 1, 1
	Inp1: 3, 1, 3, 1, 1 Inp2: 3, 1, 3, 1, 1
	Inp1: 1, 3, 2, 3, 1 Inp2: 1, 3, 2, 3, 1
xa_nn_elm_add_f32xf32_f32	Inp1: 1, 2, 4, 6 Inp2: 1, 2, 4, 6
	Inp1: 6, 8, 8 Inp2: 6, 8, 8
	Inp1: 5, 4, 4, 7 Inp2: 5, 4, 4, 7
	Inp1: 3, 9, 6, 1, 10 Inp2: 3, 9, 6, 1, 10
	Inp1: 7, 3, 10 Inp2: 7, 3, 10
	Inp1: 9, 2, 6, 10, 3 Inp2: 9, 2, 6, 10, 3
	Inp1: 10, 2, 6 Inp2: 10, 2, 6
	Inp1: 7, 8, 4 Inp2: 7, 8, 4

Kernel name	Parameters
	Inp1: 4, 1, 6, 2, 9 Inp2: 4, 1, 6, 2, 9
	Inp1: 7, 2, 2, 7, 10 Inp2: 7, 2, 2, 7, 10
	Inp1: 2, 3, 4 Inp2: 2, 3, 4
	Inp1: 2, 7, 2, 2 Inp2: 2, 7, 2, 2
xa_nn_elm_add_scalar_f32xf32_f32	Inp1: 4, 1, 4, 9 Inp2: 1
	Inp1: 6, 5, 10, 6 Inp2: 1
	Inp1: 1, 10, 10, 6, 2 Inp2: 1
	Inp1: 10, 6, 1, 9 Inp2: 1
	Inp1: 1, 4, 1, 10 Inp2: 1
	Inp1: 8, 6, 7, 2, 9 Inp2: 1
	Inp1: 6, 6, 6 Inp2: 1
xa_nn_elm_add_broadcast_5D_f32xf32_f32	Inp1: 32, 45 Inp2: 32, 1
	Inp1: 87, 9, 15, 1 Inp2: 87, 9, 15, 5
	Inp1: 92 13 3 19 28 Inp2: 92 13 3 19 28
	Inp1: 18, 8, 14 Inp2: 18, 8, 1
	Inp1: 15, 10, 5, 30, 18 Inp2: 15, 1, 5, 30, 18
	Inp1: 13, 15, 1, 19 Inp2: 13, 15, 65, 19
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1
	Inp1: 1, 1, 1, 1, 1, 1 Inp2: 1, 2, 3, 2, 2
	Inp1: 3, 2, 3, 2, 2 Inp2: 1, 1, 1, 1, 1
	Inp1: 3, 2, 1, 2, 1 Inp2: 1, 2, 3, 2, 1
	Inp1: 3, 2, 2, 1, 1 Inp2: 3, 2, 2, 1, 1
	Inp1: 2, 3, 1, 1, 1 Inp2: 2, 3, 1, 1, 1

Kernel name	Parameters
	Inp1: 3, 1, 3, 1, 1 Inp2: 1, 3, 2, 3, 1
xa_nn_elm_mul_f32xf32_f32	Inp1: 3, 5, 7, 9 Inp2: 3, 5, 7, 9
	Inp1: 9, 9, 1, 10 Inp2: 9, 9, 1, 10
	Inp1: 8, 1, 10, 6 Inp2: 8, 1, 10, 6
	Inp1: 5, 6, 6, 6 Inp2: 5, 6, 6, 6
	Inp1: 2, 7, 5, 8 Inp2: 2, 7, 5, 8
	Inp1: 8, 3, 2, 6 Inp2: 8, 3, 2, 6
	Inp1: 5, 9, 3 Inp2: 5, 9, 3
	Inp1: 10, 7, 7 Inp2: 10, 7, 7
	Inp1: 8, 12, 7 Inp2: 8, 12, 7
	Inp1: 6, 9, 8 Inp2: 6, 9, 8
	Inp1: 10, 9, 14, 1 Inp2: 10, 9, 14, 1
	Inp1: 7, 6, 2 Inp2: 7, 6, 2
xa_nn_elm_mul_scalar_f32xf32_f32	Inp1: 6, 9, 2, 2 Inp2: 1
	Inp1: 2, 1, 8 Inp2: 1
	Inp1: 2, 9, 3, 8 Inp2: 1
	Inp1: 4, 5, 7, 2 Inp2: 1
	Inp1: 5, 7, 5, 2 Inp2: 1
	Inp1: 10, 6, 4, 8, 7 Inp2: 1
	Inp1: 7, 9, 1 Inp2: 1
	Inp1: 7, 4, 4, 10, 6 Inp2: 1
xa_nn_elm_mul_broadcast_5D_f32xf32_f32	Inp1: 1, 160, 7, 7 Inp2: 34, 160, 7, 7
	Inp1: 5, 4, 71, 11, 1 Inp2: 5, 4, 71, 11, 23
	Inp1: 1, 64, 56, 45, 34 Inp2: 1, 1, 1, 1, 1

Kernel name	Parameters
	Inp1: 65, 1 Inp2: 65, 43
	Inp1: 8, 8, 11 Inp2: 1, 1, 11
	Inp1: 3, 1, 35 Inp2: 3, 5, 35
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1
	Inp1: 1, 1, 1, 1, 1 Inp2: 1, 2, 3, 2, 2
	Inp1: 3, 2, 3, 2, 2 Inp2: 1, 1, 1, 1, 1
	Inp1: 3, 2, 1, 2, 1 Inp2: 1, 2, 3, 2, 1
	Inp1: 3, 2, 2, 1, 1 Inp2: 3, 2, 2, 1, 1
	Inp1: 2, 3, 1, 1, 1 Inp2: 2, 3, 1, 1, 1
	Inp1: 3, 1, 3, 1, 1 Inp2: 1, 3, 2, 3, 1
xa_nn_vec_softmax_dim_f32_f32	Axis = 1 Inp: 6, 6, 8, 4
	Axis = 2 Inp: 6, 10, 5, 5, 9
	Axis = 3 Inp: 10, 5, 4, 6, 5
	Axis = 2 Inp: 7, 7, 6, 4, 5
	Axis = 1 Inp: 9, 8, 9, 7
	Axis = 4 Inp: 4, 10, 10, 5, 5
	Axis = 3 Inp: 9, 8, 4, 9, 8
	Axis = 0 Inp: 5, 9, 8, 4
	Axis = 1 Inp: 6, 10, 10, 7
	Axis = 0 Inp: 1, 1, 1, 1
	Axis = 1 Inp: 1, 1, 1, 1
	Axis = 2 Inp: 1, 1, 1, 1
	Axis = 3 Inp: 1, 1, 1, 1
	Axis = 3 Inp: 3, 3, 1, 1
	Axis = 2

Kernel name	Parameters
	Inp: 3, 3, 1, 1
	Axis = 0 Inp: 3, 3, 1, 1
	Axis = 0 Inp: 4, 1, 1, 1
	Axis = 2 Inp: 4, 1, 1, 1
	Axis = 3 Inp: 4, 1, 1, 1
	Axis = 0 Inp: 6, 1, 1
	Axis = 2 Inp: 6, 1, 1
	Axis = 2 Inp: 6, 1, 1
	Axis = 0 Inp: 1
	Axis = 0 Inp: 34
	Axis = 0 Inp: 2, 1
	Axis = 2 Inp: 4, 1, 2, 1
	Axis = 2 Inp: 4, 1, 1, 2
	Axis = 3 Inp: 5, 7, 5, 8
xa_nn_layernorm_f32_f32	Axis: 2 Inp: 10, 3, 10, 7
	Axis: 0 Inp: 4, 6, 1, 8
	Axis:3 Inp: 6, 9, 6, 6
	Axis: 1 Inp: 8, 7, 8, 1
	Axis: 1 Inp: 2, 1, 2
	Axis: 4 Inp: 3, 4, 8, 3, 4
	Axis: 0 Inp: 4, 6, 8, 6, 2
	Axis: 2 Inp: 8, 8, 4, 10
	Axis: 3 Inp: 4, 6, 2, 5
	Axis: 1 Inp: 6, 7, 4, 6
	Axis: 2

Kernel name	Parameters
	Inp: 8, 9, 7
	Axis: 0 Inp: 5, 5, 6
	Axis: 1 Inp: 4, 4, 4
	Axis: 0 Inp: 5, 1, 8, 7, 5
	Axis: 0 Inp: 9, 3, 4
	Axis: 1 Inp: 9, 7, 3
	Axis: 2 Inp: 9, 2, 8, 2, 9
	Axis: 1 Inp: 2, 6, 4, 9
	Axis: 1 Inp: 6, 2, 2, 10
	Axis: 0 Inp: 3, 2, 6, 9
	Axis: 4 Inp: 3, 4, 8, 3, 4
xa_nn_cat – Signed 8-bit	Inp1: 5, 4, 6 Inp2: 5, 8, 6 Inp3: 5, 2, 6 Inp4: 5, 7, 6 Axis: 1
	Inp1:4, 5, 6, 7 Inp2: 4, 5, 6, 3 Inp3: 4, 5, 6, 1 Inp4: 4, 5, 6, 2 Axis: 3
	Inp1: 8, 8, 8 Inp2: 8, 8, 7 Axis: 2
	Inp1: 2, 3, 4, 8 Inp2: 2, 3, 4, 6 Axis: 3
	Inp1: 2, 4, 3, 1, 8 Inp2: 2, 4, 6, 1, 8 Inp3: 2, 4, 7, 1, 8 Axis: 2
	Inp1: 3, 7, 5, 2 Inp2: 4, 7, 5, 2 Inp3: 5, 7, 5, 2 Inp4: 6, 7, 5, 2 Axis: 0
	Inp1: 6, 5, 6 Inp2: 7, 5, 6

Kernel name	Parameters
	Inp3: 5, 5, 6 Axis: 0
	Inp1: 3, 6, 9 Inp2: 3, 6, 12 Axis: 2
	Inp1: 5, 4, 3, 6 Inp2: 5, 4, 3, 9 Axis:3
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 0
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 2
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 3
	Inp1: 1, 1, 1, 1 Inp2: 2, 1, 1, 1 Inp3: 3, 1, 1, 1 Axis: 0
	Inp1: 1, 1, 1, 1 Inp2: 1, 2, 1, 1 Inp3: 1, 3, 1, 1 Axis: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 2, 1 Inp3: 1, 1, 3, 1 Axis: 2
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 2 Inp3: 1, 1, 1, 3 Axis: 3
	Inp1: 1, 1, 1, 4 Inp2: 1, 1, 1, 3 Axis: 3
	Inp1: 2, 1, 3, 1 Inp2: 2, 1, 3, 4 Inp3: 2, 1, 3, 3 Inp4: 2, 1, 3, 3 Axis: 3
	Inp1: 1, 3, 3, 1 Inp2: 2, 3, 3, 1 Inp3: 3, 3, 3, 1 Axis: 0

Kernel name	Parameters
	Inp1: 3, 3, 1, 1 Inp2: 3, 3, 1, 2 Inp3: 3, 3, 1, 3 Axis: 3
	Inp1: 6, 1, 1 Inp2: 6, 1, 1 Inp3: 6, 1, 1 Axis: 2
	Inp1: 2, 1 Inp2: 2, 3 Axis: 1
	Inp1: 2, 1, 6 Inp2: 2, 5, 6 Inp3: 2, 6, 6 Axis: 1
	Inp1: 1 Inp2: 1 Inp3: 1 Axis: 0
	Inp1: 2, 1 Inp2: 2, 1 Inp3: 2, 3 Axis:1
	Inp1: 2, 1, 6 Inp2: 2, 5, 6 Inp3: 2, 6, 6 Axis: 1
xa_nn_cat – Signed 16-bit	Inp1: 4, 3, 8, 1, 2 Inp2: 4, 3, 7, 1, 2 Inp3: 4, 3, 6, 1, 2 Inp4: 4, 3, 5, 1, 2 Axis: 2
	Inp1: 8, 5 Inp2: 9, 5 Inp3: 10, 5 Axis: 0
	Inp1: 5, 4 Inp2: 4, 4 Inp3: 9, 4 Axis: 0
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 0
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1

Kernel name	Parameters
	Inp3: 1, 1, 1, 1 Axis: 2
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 3
	Inp1: 1, 1, 1, 1 Inp2: 2, 1, 1, 1 Inp3: 3, 1, 1, 1 Axis: 0
	Inp1: 1, 1, 1, 1 Inp2: 1, 2, 1, 1 Inp3: 1, 3, 1, 1 Axis: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 2, 1 Inp3: 1, 1, 3, 1 Axis: 2
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 2 Inp3: 1, 1, 1, 3 Axis: 3
	Inp1: 1, 1, 1, 4 Inp2: 1, 1, 1, 3 Axis: 3
	Inp1: 1, 2, 1, 1 Inp2: 1, 3, 1, 1 Inp3: 1, 4, 1, 1 Axis: 1
	Inp1: 2, 1, 3, 1 Inp2: 2, 1, 3, 4 Inp3: 2, 1, 3, 3 Inp4: 2, 1, 3, 3 Axis: 3
	Inp1: 1, 3, 3, 1 Inp2: 2, 3, 3, 1 Inp3: 3, 3, 3, 1 Axis: 0
	Inp1: 3, 3, 1, 1 Inp2: 3, 3, 1, 2 Inp3: 3, 3, 1, 3 Axis: 3
	Inp1: 6, 1, 1 Inp2: 6, 1, 1 Inp3: 6, 1, 1 Axis: 2
	Inp1: 2, 1 Inp2: 2, 3 Axis: 1
	Inp1: 2, 1, 6 Inp2: 2, 5, 6 Inp3: 2, 6, 6

Kernel name	Parameters
	Axis: 1
	Inp1: 1 Inp2: 1 Inp3: 1 Axis: 0
	Inp1: 2, 1 Inp2: 2, 1 Inp3: 2, 3 Axis:1
	Inp1: 2, 1, 6 Inp2: 2, 5, 6 Inp3: 2, 6, 6 Axis: 1
	Inp1: 8, 8, 3 Inp2: 3, 8, 3 Axis: 0
	Inp1: 5, 3, 2, 3, 4 Inp2: 5, 4, 2, 3, 4 Inp3: 5, 6, 2, 3, 4 Inp4: 5, 1, 2, 3, 4 Axis: 1
	Inp1: 6, 4, 8 Inp2: 6, 4, 12 Inp3: 6, 4, 6 Inp4: 6, 4, 2 Axis: 2
	Inp1: 7, 6, 7 Inp2: 9, 6, 7 Inp3: 3, 6, 7 Axis: 0
	Inp1: 6, 11, 6, 12 Inp2: 6, 13, 6, 12 Axis: 1
	Inp1: 2, 2, 15 Inp2: 2, 2, 14 Inp3: 2, 2, 13 Inp4: 2, 2, 7 Axis: 2
	Inp1: 9, 5 Inp2: 9, 7 Inp3: 9, 3 Inp4: 9, 11 Axis: 1
	Inp1: 2, 2, 3, 4, 11 Inp2: 2, 2, 3, 4, 12 Axis: 4
	Inp1: 7, 9, 9, 2

Kernel name	Parameters
xa_nn_cat – Signed 32-bit	Inp2: 7, 9, 2, 2 Inp3: 7, 9, 1, 2 Inp4: 7, 9, 3, 2 Axis: 2
	Inp1: 2, 8, 6, 7, 8 Inp2: 2, 1, 6, 7, 8 Axis: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 0
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 2
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 3
	Inp1: 1, 1, 1, 1 Inp2: 2, 1, 1, 1 Inp3: 3, 1, 1, 1 Axis: 0
	Inp1: 1, 1, 1, 1 Inp2: 1, 2, 1, 1 Inp3: 1, 3, 1, 1 Axis: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 2, 1 Inp3: 1, 1, 3, 1 Axis: 2
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 2 Inp3: 1, 1, 1, 3 Axis: 3
	Inp1: 1, 1, 1, 4 Inp2: 1, 1, 1, 3 Axis: 3
	Inp1: 1, 2, 1, 1 Inp2: 1, 3, 1, 1 Inp3: 1, 4, 1, 1 Axis: 1
	Inp1: 2, 1, 3, 1 Inp2: 2, 1, 3, 4 Inp3: 2, 1, 3, 3 Inp4: 2, 1, 3, 3 Axis: 3

Kernel name	Parameters
	Inp1: 1, 3, 3, 1 Inp2: 2, 3, 3, 1 Inp3: 3, 3, 3, 1 Axis: 0
	Inp1: 3, 3, 1, 1 Inp2: 3, 3, 1, 2 Inp3: 3, 3, 1, 3 Axis: 3
	Inp1: 6, 1, 1 Inp2: 6, 1, 1 Inp3: 6, 1, 1 Axis: 2
	Inp1: 2, 1 Inp2: 2, 3 Axis: 1
	Inp1: 2, 1, 6 Inp2: 2, 5, 6 Inp3: 2, 6, 6 Axis: 1
	Inp1: 1 Inp2: 1 Inp3: 1 Axis: 0
	Inp1: 2, 1 Inp2: 2, 1 Inp3: 2, 3 Axis:1
	Inp1: 2, 1, 6 Inp2: 2, 5, 6 Inp3: 2, 6, 6 Axis: 1
	Inp1: 8, 6 Inp2: 8, 7 Inp3: 8, 8 Axis: 1
	Inp1: 6, 6, 5 Inp2: 7, 6, 5 Inp3: 9, 6, 5 Inp4: 2, 6, 5 Axis: 0
	Inp1: 6, 2, 3, 4 Inp2: 7, 2, 3, 4 Inp3: 2, 2, 3, 4 Axis: 0
	Inp1: 6, 5, 4 Inp2: 6, 5, 4 Inp3: 6, 5, 4 Axis: 0
	Inp1: 3, 6, 8, 3, 4

Kernel name	Parameters
	Inp2: 3, 6, 2, 3, 4 Inp3: 3, 6, 1, 3, 4 Axis: 2
	Inp1: 2, 1, 4, 5 Inp2: 2, 3, 4, 5 Inp3: 2, 2, 4, 5 Axis: 1
	Inp1: 9, 8, 7 Inp2: 9, 2, 7 Axis: 1
	Inp1: 2, 2, 3, 3, 4 Inp2: 2, 2, 4, 3, 4 Inp3: 2, 2, 2, 3, 4 Axis: 2
	Inp1: 6, 7, 2 Inp2: 6, 7, 2 Inp1 1, 7, 2 Axis: 0
xa_nn_cat – Unsigned 8-bit	Inp1: 5, 4, 6 Inp2: 5, 8, 6 Inp3: 5, 2, 6 Inp4: 5, 7, 6 Axis: 1
	Inp1: 4, 5, 6, 7 Inp2: 4, 5, 6, 3 Inp3: 4, 5, 6, 1 Inp4: 4, 5, 6, 2 Axis: 3
	Inp1: 5, 7, 8 Inp2: 5, 7, 2 Axis: 2
	Inp1: 8, 2, 3, 4 Inp2: 6, 2, 3, 4 Axis: 0
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 0
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 2
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1

Kernel name	Parameters
	Inp3: 1, 1, 1, 1 Axis: 3
	Inp1: 1, 1, 1, 1 Inp2: 2, 1, 1, 1 Inp3: 3, 1, 1, 1 Axis: 0
	Inp1: 1, 1, 1, 1 Inp2: 1, 2, 1, 1 Inp3: 1, 3, 1, 1 Axis: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 2, 1 Inp3: 1, 1, 3, 1 Axis: 2
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 2 Inp3: 1, 1, 1, 3 Axis: 3
	Inp1: 1, 1, 1, 4 Inp2: 1, 1, 1, 3 Axis: 3
	Inp1: 1, 2, 1, 1 Inp2: 1, 3, 1, 1 Inp3: 1, 4, 1, 1 Axis: 1
	Inp1: 2, 1, 3, 1 Inp2: 2, 1, 3, 4 Inp3: 2, 1, 3, 3 Inp4: 2, 1, 3, 3 Axis: 3
	Inp1: 1, 3, 3, 1 Inp2: 2, 3, 3, 1 Inp3: 3, 3, 3, 1 Axis: 0
	Inp1: 3, 3, 1, 1 Inp2: 3, 3, 1, 2 Inp3: 3, 3, 1, 3 Axis: 3
	Inp1: 6, 1, 1 Inp2: 6, 1, 1 Inp3: 6, 1, 1 Axis: 2
	Inp1: 2, 1 Inp2: 2, 3 Axis: 1
	Inp1: 2, 1, 6 Inp2: 2, 5, 6 Inp3: 2, 6, 6 Axis: 1
	Inp1: 1 Inp2: 1 Inp3: 1

Kernel name	Parameters
	Axis: 0
	Inp1: 2, 1 Inp2: 2, 1 Inp3: 2, 3 Axis:1
	Inp1: 2, 1, 6 Inp2: 2, 5, 6 Inp3: 2, 6, 6 Axis: 1
	Inp1: 3, 5, 6, 4, 8 Inp2: 3, 5, 6, 6, 8 Inp3: 3, 5, 6, 1, 8 Axis: 3
	Inp1: 1, 2, 7, 5 Inp2: 3, 2, 7, 5 Inp3: 5, 2, 7, 5 Inp4: 7, 2, 7, 5 Axis: 0
	Inp1: 6, 5, 6 Inp2: 7, 5, 6 Inp3: 5, 5, 6 Axis: 0
	Inp1: 3, 6, 9 Inp2: 3, 6, 12 Axis: 2
	Inp1: 5, 4, 3, 6 Inp2: 5, 4, 3, 9 Axis: 3
	Inp1: 2, 1, 6 Inp2: 2, 5, 6 Inp3: 2, 6, 6 Axis: 1
xa_nn_cat – Unsigned 16-bit	Inp1: 2, 1, 9, 3, 4 Inp2: 2, 1, 7, 3, 4 Inp3: 2, 1, 5, 3, 4 Inp4: 2, 1, 3, 3, 4 Axis: 2
	Inp1: 2, 7 Inp2: 4, 7 Inp3: 6, 7 Axis: 0
	Inp1: 5, 9 Inp2: 5, 4 Inp3: 5, 7 Axis: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 0
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1

Kernel name	Parameters
	Inp3: 1, 1, 1, 1 Axis: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 2
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 3
	Inp1: 1, 1, 1, 1 Inp2: 2, 1, 1, 1 Inp3: 3, 1, 1, 1 Axis: 0
	Inp1: 1, 1, 1, 1 Inp2: 1, 2, 1, 1 Inp3: 1, 3, 1, 1 Axis: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 2, 1 Inp3: 1, 1, 3, 1 Axis: 2
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 2 Inp3: 1, 1, 1, 3 Axis: 3
	Inp1: 1, 1, 1, 4 Inp2: 1, 1, 1, 3 Axis: 3
	Inp1: 1, 2, 1, 1 Inp2: 1, 3, 1, 1 Inp3: 1, 4, 1, 1 Axis: 1
	Inp1: 2, 1, 3, 1 Inp2: 2, 1, 3, 4 Inp3: 2, 1, 3, 3 Inp4: 2, 1, 3, 3 Axis: 3
	Inp1: 1, 3, 3, 1 Inp2: 2, 3, 3, 1 Inp3: 3, 3, 3, 1 Axis: 0
	Inp1: 3, 3, 1, 1 Inp2: 3, 3, 1, 2 Inp3: 3, 3, 1, 3 Axis: 3
	Inp1: 6, 1, 1 Inp2: 6, 1, 1 Inp3: 6, 1, 1 Axis: 2
	Inp1: 2, 1

Kernel name	Parameters
	Inp2: 2, 3 Axis: 1
	Inp1: 2, 1, 6 Inp2: 2, 5, 6 Inp3: 2, 6, 6 Axis: 1
	Inp1: 1 Inp2: 1 Inp3: 1 Axis: 0
	Inp1: 2, 1 Inp2: 2, 1 Inp3: 2, 3 Axis:1
	Inp1: 2, 1, 6 Inp2: 2, 5, 6 Inp3: 2, 6, 6 Axis: 1
	Inp1: 8, 8, 3 Inp2: 3, 8, 3 Axis: 0
	Inp1: 5, 3, 2, 3, 4 Inp2: 5, 4, 2, 3, 4 Inp3: 5, 6, 2, 3, 4 Inp4: 5, 1, 2, 3, 4 Axis: 1
	Inp1: 6, 4, 8 Inp2: 6, 4, 12 Inp3: 6, 4, 6 Inp4: 6, 4, 2 Axis: 2
	Inp1: 7, 6, 7 Inp2: 9, 6, 7 Inp3: 3, 6, 7 Axis: 0
	Inp1: 8, 1, 6, 14 Inp2: 8, 3, 6, 14 Axis: 1
	Inp1: 4, 11, 5 Inp2: 4, 11, 4 Inp3: 4, 11, 3 Inp4: 4, 11, 7 Axis: 2
	Inp1: 3, 5 Inp2: 3, 7 Inp3: 3, 3

Kernel name	Parameters
	Inp4: 3, 11 Axis: 1
	Inp1: 2, 2, 3, 4, 11 Inp2: 2, 2, 3, 4, 12 Axis: 4
xa_nn_cat – Unsigned 32-bit	Inp1: 9, 7, 3, 4 Inp2: 9, 7, 1, 4 Inp3: 9, 7, 2, 4 Inp4: 9, 7, 7, 4 Axis: 2
	Inp1 :2, 7, 6, 4, 8 Inp2: 2, 7, 6, 1, 8 Axis: 3
	Inp1: 3, 6 Inp2: 3, 7 Inp3: 3, 8
	Inp1: 2, 6, 6, 5 Inp2: 2, 7, 6, 5 Inp3: 2, 9, 6, 5 Inp4: 2, 2, 6, 5 Axis: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 0
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 2
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 1 Inp3: 1, 1, 1, 1 Axis: 3
	Inp1: 1, 1, 1, 1 Inp2: 2, 1, 1, 1 Inp3: 3, 1, 1, 1 Axis: 0
	Inp1: 1, 1, 1, 1 Inp2: 1, 2, 1, 1 Inp3: 1, 3, 1, 1 Axis: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 2, 1 Inp3: 1, 1, 3, 1 Axis: 2

Kernel name	Parameters
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1, 2 Inp3: 1, 1, 1, 3 Axis: 3
	Inp1: 1, 1, 1, 4 Inp2: 1, 1, 1, 3 Axis: 3
	Inp1: 1, 2, 1, 1 Inp2: 1, 3, 1, 1 Inp3: 1, 4, 1, 1 Axis: 1
	Inp1: 2, 1, 3, 1 Inp2: 2, 1, 3, 4 Inp3: 2, 1, 3, 3 Inp4: 2, 1, 3, 3 Axis: 3
	Inp1: 1, 3, 3, 1 Inp2: 2, 3, 3, 1 Inp3: 3, 3, 3, 1 Axis: 0
	Inp1: 3, 3, 1, 1 Inp2: 3, 3, 1, 2 Inp3: 3, 3, 1, 3 Axis: 3
	Inp1: 6, 1, 1 Inp2: 6, 1, 1 Inp3: 6, 1, 1 Axis: 2
	Inp1: 2, 1 Inp2: 2, 3 Axis: 1
	Inp1: 2, 1, 6 Inp2: 2, 5, 6 Inp3: 2, 6, 6 Axis: 1
	Inp1: 1 Inp2: 1 Inp3: 1 Axis: 0
	Inp1: 2, 1 Inp2: 2, 1 Inp3: 2, 3 Axis:1
	Inp1: 2, 1, 6 Inp2: 2, 5, 6 Inp3: 2, 6, 6 Axis: 1
	Inp1: 6, 2, 3, 4 Inp2: 7, 2, 3, 4 Inp3: 2, 2, 3, 4 Axis: 0

Kernel name	Parameters
	Inp1: 6, 5, 4 Inp2: 6, 5, 4 Inp3: 6, 5, 4
	Inp1: 8, 3, 5, 2, 5 Inp2: 8, 3, 7, 2, 5 Inp3: 8, 3, 1, 2, 5 Axis: 2
	Inp1: 4, 1, 2, 7 Inp2: 4, 3, 2, 7 Inp3: 4, 2, 2, 7 Axis: 1
	Inp1: 10, 2, 7 Inp2: 3, 2, 7 Axis: 0
	Inp1: 2, 3, 3, 4 Inp2: 2, 4, 3, 4 Inp3: 2, 2, 3, 4 Axis: 1
	Inp1: 5, 9, 2, 2 Inp2: 8, 9, 2, 2 Inp3: 1, 9, 2, 2 Axis: 0
xa_nn_elm_quantize_f32_asym4	Inp: 11, 4, 5, 11
	Inp: 8, 4, 8, 9
	Inp: 8, 7, 5, 5
	Inp: 11, 5, 9, 7
	Inp: 7, 6, 10, 5, 5
	Inp: 7, 9, 11, 11
	Inp: 5, 10, 9, 8
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1

Kernel name	Parameters
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=2 Inp: 9, 5, 9, 10
	Axis=4 Inp: 4, 10, 6, 10, 6
	Axis=2 Inp: 8, 5, 10, 8
	Axis=4 Inp: 7, 11, 11, 6, 5
	Axis=3 Inp: 8, 5, 4, 7
	Axis=1

Kernel name	Parameters
	Inp: 4, 8, 5, 9, 11
	Axis=0 Inp: 4, 9, 4, 8
xa_nn_elm_quantize_f32_asym8	Inp: 6, 11, 11, 10, 5
	Inp: 4, 7, 4, 7
	Inp: 9, 8, 6, 7
	Inp: 10, 6, 4, 10, 10
	Inp: 6, 5, 10, 11, 8
	Inp: 4, 5, 6, 4
	Inp: 8, 7, 7, 5
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1

Kernel name	Parameters
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=1 Inp: 11, 10, 5, 10
	Axis=0 Inp: 5, 10, 8, 10, 8
	Axis=2 Inp: 11, 10, 8, 4, 9
	Axis=2 Inp: 5, 8, 4, 8, 10
	Axis=3 Inp: 11, 4, 5, 6
	Axis=1 Inp: 8, 10, 11, 4
	Axis=4 Inp: 6, 7, 6, 10, 7
xa_nn_elm_quantize_f32_asym16	Inp: 5, 6, 8, 7, 7
	Inp: 6, 7, 6, 10, 5
	Inp: 5, 10, 9, 11
	Inp: 4, 9, 4, 9, 6
	Inp: 9, 11, 9, 9, 7
	Inp: 7, 9, 7, 10
	Inp: 5, 11, 9, 6
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2

Kernel name	Parameters
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=1 Inp: 6, 10, 10, 5
	Axis=2 Inp: 11, 6, 10, 11
	Axis=4 Inp: 7, 6, 6, 4, 5

Kernel name	Parameters
	Axis=2 Inp: 4, 11, 4, 8, 8
	Axis=1 Inp: 6, 7, 7, 9, 8
	Axis=2 Inp: 7, 7, 11, 9
	Axis=1 Inp: 8, 8, 9, 7
xa_nn_elm_quantize_f32_asym4u	Inp: 7, 4, 6, 6
	Inp: 9, 5, 11, 4, 9
	Inp: 5, 7, 4, 11, 11
	Inp: 11, 4, 7, 10
	Inp: 11, 10, 6, 9, 9
	Inp: 8, 4, 6, 10
	Inp: 8, 8, 5, 4, 10
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1

Kernel name	Parameters
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=4 Inp: 8, 9, 9, 11, 10
	Axis=0 Inp: 11, 4, 6, 6
	Axis=1 Inp: 10, 8, 5, 4
	Axis=0 Inp: 8, 4, 9, 4, 8
	Axis=4 Inp: 4, 8, 5, 8, 4
	Axis=4 Inp: 7, 10, 5, 11, 5
	Axis=1 Inp: 9, 7, 7, 8, 5
xa_nn_elm_quantize_f32_asym8u	Inp: 7, 5, 6, 11
	Inp: 9, 4, 11, 4
	Inp: 9, 6, 7, 10
	Inp: 5, 4, 5, 6, 4
	Inp: 5, 9, 5, 9, 9
	Inp: 6, 11, 5, 6
	Inp: 6, 6, 4, 7, 11
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1

Kernel name	Parameters
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=1

Kernel name	Parameters
	Inp: 10, 7, 10, 4
	Axis=0 Inp: 7, 10, 6, 10, 9
	Axis=2 Inp: 7, 10, 11, 4
	Axis=3 Inp: 4, 6, 5, 6, 11
	Axis=2 Inp: 10, 8, 7, 11, 9
	Axis=2 Inp: 8, 5, 5, 5
	Axis=4 Inp: 4, 11, 6, 10, 9
xa_nn_elm_quantize_f32_asym16u	Inp: 10, 10, 8, 4, 6
	Inp: 5, 9, 8, 11
	Inp: 4, 5, 11, 10, 9
	Inp: 9, 4, 4, 5
	Inp: 6, 11, 9, 5
	Inp: 6, 8, 4, 5, 8
	Inp: 9, 8, 7, 7, 7
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1

Kernel name	Parameters
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=3 Inp: 10, 8, 4, 7
	Axis=2 Inp: 7, 10, 6, 10, 9
	Axis=1 Inp: 10, 4, 10, 10
	Axis=1 Inp: 6, 5, 8, 8, 9
	Axis=1 Inp: 5, 5, 9, 5, 5
	Axis=0 Inp: 5, 8, 8, 6, 11
	Axis=2 Inp: 6, 8, 11, 5, 9
xa_nn_elm_quantize_f32_sym4	Inp: 6, 6, 4, 10, 5
	Inp: 9, 6, 9, 7
	Inp: 9, 4, 6, 11, 10
	Inp: 11, 8, 4, 7, 4

Kernel name	Parameters
	Inp: 8, 5, 5, 5
	Inp: 6, 7, 11, 11, 10
	Inp: 9, 4, 8, 11
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1 , 1 , 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1

Kernel name	Parameters
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=2 Inp: 6, 8, 5, 4
	Axis=1 Inp: 4, 7, 10, 10, 4
	Axis=1 Inp: 5, 7, 10, 4
	Axis=4 Inp: 4, 6, 9, 6, 7
	Axis=0 Inp: 11, 7, 9, 7
	Axis=0 Inp: 7, 8, 8, 10
	Axis=0 Inp: 10, 11, 10, 7, 9
xa_nn_elm_quantize_f32_sym8	Inp: 7, 9, 10, 5, 7
	Inp: 4, 10, 11, 11
	Inp: 5, 8, 10, 9, 8
	Inp: 10, 8, 8, 8
	Inp: 4, 9, 6, 10
	Inp: 9, 9, 7, 9
	Inp: 6, 6, 5, 11, 4
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1

Kernel name	Parameters
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1 , 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=4 Inp: 6, 6, 4, 10, 7
	Axis=2 Inp: 5, 5, 7, 7
	Axis=2 Inp: 6, 9, 8, 10
	Axis=3 Inp: 8, 10, 6, 7, 10
	Axis=0 Inp: 5, 6, 5, 8, 11
	Axis=3 Inp: 5, 10, 6, 11, 11
	Axis=4

Kernel name	Parameters
	Inp: 4, 10, 6, 6, 6
xa_nn_elm_quantize_f32_sym16	Inp: 11, 6, 9, 6, 9
	Inp: 11, 6, 7, 6, 10
	Inp: 7, 11, 11, 11
	Inp: 10, 8, 8, 7, 11
	Inp: 10, 11, 6, 4
	Inp: 7, 11, 8, 6
	Inp: 8, 7, 9, 10
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1

Kernel name	Parameters
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=1 Inp: 11, 4, 11, 5, 5
	Axis=0 Inp: 5, 7, 7, 10
	Axis=3 Inp: 7, 5, 5, 8, 5
	Axis=3 Inp: 7, 9, 9, 10
	Axis=1 Inp: 4, 6, 10, 11
	Axis=0 Inp: 6, 6, 10, 11, 9
	Axis=1 Inp: 6, 4, 8, 6
xa_nn_elm_quantize_f32_sym4u	Inp: 10, 10, 5, 5
	Inp: 10, 10, 7, 6
	Inp: 5, 7, 10, 7
	Inp: 10, 4, 8, 6
	Inp: 10, 10, 9, 10, 7
	Inp: 8, 10, 6, 10
	Inp: 6, 10, 7, 8
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1

Kernel name	Parameters
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=0 Inp: 11, 8, 10, 6
	Axis=2 Inp: 9, 10, 8, 8
	Axis=2 Inp: 7, 11, 4, 5
	Axis=3 Inp: 7, 5, 9, 10

Kernel name	Parameters
	Axis=4 Inp: 10, 5, 7, 8, 10
	Axis=2 Inp: 8, 6, 5, 7, 8
	Axis=1 Inp: 8, 10, 5, 8
xa_nn_elm_quantize_f32_sym8u	Inp: 8, 7, 7, 8, 10
	Inp: 8, 6, 8, 7
	Inp: 6, 11, 4, 11, 10
	Inp: 11, 10, 11, 7
	Inp: 7, 7, 8, 6, 10
	Inp: 8, 5, 4, 7, 11
	Inp: 10, 6, 5, 11, 6
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1

Kernel name	Parameters
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=1 Inp: 10, 7, 10, 4
	Axis=0 Inp: 7, 10, 6, 10, 9
	Axis=2 Inp: 7, 10, 11, 4
	Axis=3 Inp: 4, 6, 5, 6, 11
	Axis=2 Inp: 10, 8, 7, 11, 9
	Axis=2 Inp: 8, 5, 5, 5
	Axis=4 Inp: 4, 11, 6, 10, 9
xa_nn_elm_quantize_f32_sym16u	Inp: 10, 10, 7, 9
	Inp: 7, 5, 6, 9
	Inp: 11, 6, 11, 11
	Inp: 5, 10, 8, 8, 10
	Inp: 9, 6, 11, 4
	Inp: 10, 4, 6, 7
	Inp: 11, 10, 7, 11, 8
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1

Kernel name	Parameters
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=2 Inp: 8, 9, 5, 5
	Axis=0

Kernel name	Parameters
	Inp: 7, 7, 8, 11, 11
	Axis=0 Inp: 8, 6, 10, 11
	Axis=4 Inp: 9, 6, 10, 5, 10
	Axis=1 Inp: 8, 5, 10, 4, 5
	Axis=1 Inp: 7, 5, 4, 11
	Axis=2 Inp: 7, 11, 10, 11, 7
xa_nn_elm_dequantize_f32_asym4	Inp: 11, 4, 5, 11
	Inp: 8, 4, 8, 9
	Inp: 8, 7, 5, 5
	Inp: 11, 5, 9, 7
	Inp: 7, 6, 10, 5, 5
	Inp: 7, 9, 11, 11
	Inp: 5, 10, 9, 8
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1

Kernel name	Parameters
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=2 Inp: 9, 5, 9, 10
	Axis=4 Inp: 4, 10, 6, 10, 6
	Axis=2 Inp: 8, 5, 10, 8
	Axis=4 Inp: 7, 11, 11, 6, 5
	Axis=3 Inp: 8, 5, 4, 7
	Axis=1 Inp: 4, 8, 5, 9, 11
	Axis=0 Inp: 4, 9, 4, 8
xa_nn_elm_dequantize_f32_asym8	Inp: 6, 11, 11, 10, 5
	Inp: 4, 7, 4, 7
	Inp: 9, 8, 6, 7
	Inp: 10, 6, 4, 10, 10
	Inp: 6, 5, 10, 11, 8
	Inp: 4, 5, 6, 4

Kernel name	Parameters
	Inp: 8, 7, 7, 5
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1

Kernel name	Parameters
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=1 Inp: 1, 10, 5, 10
	Axis=0 Inp: 5, 10, 8, 10, 8
	Axis=2 Inp: 11, 10, 8, 4, 9
	Axis=2 Inp: 5, 8, 4, 8, 10
	Axis=3 Inp: 11, 4, 5, 6
	Axis=1 Inp: 8, 10, 11, 4
	Axis=4 Inp: 6, 7, 6, 10, 7
xa_nn_elm_dequantize_f32_asym16	Inp: 5, 6, 8, 7, 7
	Inp: 6, 7, 6, 10, 5
	Inp: 5, 10, 9, 11
	Inp: 4, 9, 4, 9, 6
	Inp: 9, 11, 9, 9, 7
	Inp: 7, 9, 7, 10
	Inp: 5, 11, 9, 6
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1

Kernel name	Parameters
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=1 Inp: 6, 10, 10, 5
	Axis=2 Inp: 11, 6, 10, 11
	Axis=4 Inp: 7, 6, 6, 4, 5
	Axis=2 Inp: 4, 11, 4, 8, 8
	Axis=1 Inp: 6, 7, 7, 9, 8
	Axis=2 Inp: 7, 7, 11, 9
	Axis=1 Inp: 8, 8, 9, 7
xa_nn_elm_dequantize_f32_asym4u	Inp: 7, 4, 6, 6

Kernel name	Parameters
	Inp: 9, 5, 11, 4, 9
	Inp: 5, 7, 4, 11, 11
	Inp: 11, 4, 7, 10
	Inp: 11, 10, 6, 9, 9
	Inp: 8, 4, 6, 10
	Inp: 8, 8, 5, 4, 10
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1

Kernel name	Parameters
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=4 Inp: 8, 9, 9, 11, 10
	Axis=0 Inp: 11, 4, 6, 6
	Axis=1 Inp: 10, 8, 5, 4
	Axis=0 Inp: 8, 4, 9, 4, 8
	Axis=4 Inp: 4, 8, 5, 8, 4
	Axis=4 Inp: 7, 10, 5, 11, 5
	Axis=1 Inp: 9, 7, 7, 8, 5
xa_nn_elm_dequantize_f32_asym8u	Inp: 7, 5, 6, 11
	Inp: 9, 4, 11, 4
	Inp: 9, 6, 7, 10
	Inp: 5, 4, 5, 6, 4
	Inp: 5, 9, 5, 9, 9
	Inp: 6, 11, 5, 6
	Inp: 6, 6, 4, 7, 11
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1

Kernel name	Parameters
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=1 Inp: 10, 7, 10, 4
	Axis=0 Inp: 7, 10, 6, 10, 9
	Axis=2 Inp: 7, 10, 11, 4
	Axis=3 Inp: 4, 6, 5, 6, 11
	Axis=2 Inp: 10, 8, 7, 11, 9

Kernel name	Parameters
	Axis=2 Inp: 8, 5, 5, 5
	Axis=4 Inp: 4, 11, 6, 10, 9
xa_nn_elm_dequantize_f32_asym16u	Inp: 10, 10, 8, 4, 6
	Inp: 5, 9, 8, 11
	Inp: 4, 5, 11, 10, 9
	Inp: 9, 4, 4, 5
	Inp: 6, 11, 9, 5
	Inp: 6, 8, 4, 5, 8
	Inp: 9, 8, 7, 7, 7
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0

Kernel name	Parameters
	Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=3 Inp: 10, 8, 4, 7
	Axis=2 Inp: 7, 10, 6, 10, 9
	Axis=1 Inp: 10, 4, 10, 10
	Axis=1 Inp: 6, 5, 8, 8, 9
	Axis=1 Inp: 5, 5, 9, 5, 5
	Axis=0 Inp: 5, 8, 8, 6, 11
	Axis=2 Inp: 6, 8, 11, 5, 9
xa_nn_elm_dequantize_f32_sym4	Inp: 6, 6, 4, 10, 5
	Inp: 9, 6, 9, 7
	Inp: 9, 4, 6, 11, 10
	Inp: 11, 8, 4, 7, 4
	Inp: 8, 5, 5, 5
	Inp: 6, 7, 11, 11, 10
	Inp: 9, 4, 8, 11
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1

Kernel name	Parameters
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=2 Inp: 6, 8, 5, 4
	Axis=1 Inp: 4, 7, 10, 10, 4
	Axis=1

Kernel name	Parameters
	Inp: 5, 7, 10, 4
	Axis=4 Inp: 4, 6, 9, 6, 7
	Axis=0 Inp: 11, 7, 9, 7
	Axis=0 Inp: 7, 8, 8, 10
	Axis=0 Inp: 10, 11, 10, 7, 9
xa_nn_elm_dequantize_f32_sym8	Inp: 7, 9, 10, 5, 7
	Inp: 4, 10, 11, 11
	Inp: 5, 8, 10, 9, 8
	Inp: 10, 8, 8, 8
	Inp: 4, 9, 6, 10
	Inp: 9, 9, 7, 9
	Inp: 6, 6, 5, 11, 4
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1

Kernel name	Parameters
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=3 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=4 Inp: 6, 6, 4, 10, 7
	Axis=2 Inp: 5, 5, 7, 7
	Axis=2 Inp: 6, 9, 8, 10
	Axis=3 Inp: 8, 10, 6, 7, 10
	Axis=0 Inp: 5, 6, 5, 8, 11
	Axis=3 Inp: 5, 10, 6, 11, 11
	Axis=4 Inp: 4, 10, 6, 6, 6
xa_nn_elm_dequantize_f32_sym16	Inp: 11, 6, 9, 6, 9
	Inp: 11, 6, 7, 6, 10
	Inp: 7, 11, 11, 11
	Inp: 10, 8, 8, 7, 11
	Inp: 10, 11, 6, 4
	Inp: 7, 11, 8, 6
	Inp: 8, 7, 9, 10
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1

Kernel name	Parameters
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=1

Kernel name	Parameters
	Inp: 11, 4, 11, 5, 5
	Axis=0 Inp: 5, 7, 7, 10
	Axis=3 Inp: 7, 5, 5, 8, 5
	Axis=3 Inp: 7, 9, 9, 10
	Axis=1 Inp: 4, 6, 10, 11
	Axis=0 Inp: 6, 6, 10, 11, 9
	Axis=1 Inp: 6, 4, 8, 6
xa_nn_elm_dequantize_f32_sym4u	Inp: 10, 10, 5, 5
	Inp: 10, 10, 7, 6
	Inp: 5, 7, 10, 7
	Inp: 10, 4, 8, 6
	Inp: 10, 10, 9, 10, 7
	Inp: 8, 10, 6, 10
	Inp: 6, 10, 7, 8
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1

Kernel name	Parameters
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=0 Inp: 11, 8, 10, 6
	Axis=2 Inp: 9, 10, 8, 8
	Axis=2 Inp: 7, 11, 4, 5
	Axis=3 Inp: 7, 5, 9, 10
	Axis=4 Inp: 10, 5, 7, 8, 10
	Axis=2 Inp: 8, 6, 5, 7, 8
	Axis=1 Inp: 8, 10, 5, 8
xa_nn_elm_dequantize_f32_sym8u	Inp: 8, 7, 7, 8, 10
	Inp: 8, 6, 8, 7
	Inp: 6, 11, 4, 11, 10
	Inp: 11, 10, 11, 7

Kernel name	Parameters
	Inp: 7, 7, 8, 6, 10
	Inp: 8, 5, 4, 7, 11
	Inp: 10, 6, 5, 11, 6
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1

Kernel name	Parameters
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=1 Inp: 10, 7, 10, 4
	Axis=0 Inp: 7, 10, 6, 10, 9
	Axis=2 Inp: 7, 10, 11, 4
	Axis=3 Inp: 4, 6, 5, 6, 11
	Axis=2 Inp: 10, 8, 7, 11, 9
	Axis=2 Inp: 8, 5, 5, 5
	Axis=4 Inp: 4, 11, 6, 10, 9
xa_nn_elm_dequantize_f32_sym16u	Inp: 10, 10, 7, 9
	Inp: 7, 5, 6, 9
	Inp: 11, 6, 11, 11
	Inp: 5, 10, 8, 8, 10
	Inp: 9, 6, 11, 4
	Inp: 10, 4, 6, 7
	Inp: 11, 10, 7, 11, 8
	Inp: 1, 1, 1, 1
	Inp: 3, 3, 1, 1
	Inp: 4, 1, 1, 1
	Inp: 1, 6, 1, 1
	Inp: 2, 1
	Inp: 4, 1, 2, 1
	Inp: 4, 1, 1, 2
	Axis=0 Inp: 1, 1, 1, 1
	Axis=1 Inp: 1, 1, 1, 1
	Axis=2 Inp: 1, 1, 1, 1
	Axis=3 Inp: 1, 1, 1, 1

Kernel name	Parameters
	Axis=3 Inp: 3, 3, 1, 1
	Axis=2 Inp: 3, 3, 1, 1
	Axis=0 Inp: 4, 4, 1, 1
	Axis=1 Inp: 4, 4, 1, 1
	Axis=0 Inp: 4, 1, 1, 1
	Axis=1 Inp: 4, 1, 1, 1
	Axis=2 Inp: 4, 1, 1, 1
	Axis=3 Inp: 4, 1, 1, 1
	Axis=0 Inp:4, 1, 1
	Axis=1 Inp: 4, 1, 1
	Axis=2 Inp: 4, 1, 1
	Axis=0 Inp: 6, 1
	Axis=1 Inp: 6, 1
	Axis=0 Inp: 4, 1, 2, 1
	Axis=1 Inp: 4, 1, 2, 1
	Axis=2 Inp: 4, 1, 2, 1
	Axis=2 Inp: 8, 9, 5, 5
	Axis=0 Inp: 7, 7, 8, 11, 11
	Axis=0 Inp: 8, 6, 10, 11
	Axis=4 Inp: 9, 6, 10, 5, 10
	Axis=1 Inp: 8, 5, 10, 4, 5
	Axis=1 Inp: 7, 5, 4, 11
	Axis=2

Kernel name	Parameters
	Inp: 7, 11, 10, 11, 7
xa_nn_elm_sub_f32xf32_f32	Inp1: 4, 7, 8, 10 Inp2: 4, 7, 8, 10
	Inp1: 4, 6, 7, 4, 9 Inp2: 4, 6, 7, 4, 9
	Inp1: 10, 6, 4, 7 Inp2: 10, 6, 4, 7
	Inp1: 5, 8, 5, 4 Inp2: 5, 8, 5, 4
	Inp1: 4, 4, 9, 6 Inp2: 4, 4, 9, 6
	Inp1: 6, 7, 7, 6 Inp2: 6, 7, 7, 6
	Inp1: 8, 8, 6, 10 Inp2: 8, 8, 6, 10
	Inp1: 4, 8, 2, 1 Inp2: 4, 8, 2, 1
	Inp1: 3, 2 Inp2: 3, 2
	Inp1: 3, 3, 1, 1 Inp2: 3, 3, 1, 1
	Inp1: 3, 2, 1, 2 Inp2: 3, 2, 1, 2
	Inp1: 8, 1, 1, 1 Inp2: 8, 1, 1, 1
	Inp1: 1, 1, 1 Inp2: 1, 1, 1
	Inp1: 8, 9 Inp2: 8, 9
	Inp1: 1, 3, 1, 2 Inp2: 1, 3, 1, 2
	Inp1: 2, 3, 1, 2, 4 Inp2: 2, 3, 1, 2, 4
	Inp1: 1, 3, 2, 4 Inp2: 1, 3, 2, 4
	Inp1: 4, 1, 2, 1 Inp2: 4, 1, 2, 1
xa_nn_elm_sub_scalar_f32xf32_f32	Inp1: 7, 6, 3, 9 Inp2: 1
	Inp1: 4, 1, 4, 9 Inp2: 1
	Inp1: 6, 5, 10, 6 Inp2: 1
	Inp1: 10, 1, 6, 3, 9 Inp2: 1
	Inp1: 10, 10, 6, 2

Kernel name	Parameters
	Inp2: 1
	Inp1: 10, 6, 1, 9 Inp2: 1
	Inp1: 1, 4, 1, 10 Inp2: 1
	Inp1: 8, 6, 7, 2, 9 Inp2: 1
	Inp1: 1, 6, 6, 6 Inp2: 1
	Inp1: 4, 8, 2, 1 Inp2: 1
	Inp1: 3, 2 Inp2: 1
	Inp1: 3, 3, 1, 1 Inp2: 1
	Inp1: 3, 2, 1, 2 Inp2: 1
	Inp1: 8, 1, 1, 1 Inp2: 1
	Inp1: 1, 1, 1 Inp2: 1
	Inp1: 8, 9 Inp2: 1
	Inp1: 1, 3, 1, 2 Inp2: 1
	Inp1: 2, 3, 1, 2, 4 Inp2: 1
	Inp1: 1, 3, 2, 4 Inp2: 1
	Inp1: 4, 1, 2, 1 Inp2: 1
	Inp1: 1, 3, 2, 1 Inp2: 1
	Inp1: 4, 1, 1, 2 Inp2: 1
xa_nn_elm_sub_broadcast_5D_f32xf32_f32	Inp1: 32, 45 Inp2: 32, 1
	Inp1: 87, 9, 15, 1 Inp2: 87, 9, 15, 5
	Inp1: 92 13 3 19 28 Inp2: 92 13 3 19 28
	Inp1: 18, 8, 14 Inp2: 18, 8, 1
	Inp1: 15, 10, 5, 30, 18 Inp2: 15, 1, 5, 30, 18
	Inp1: 13, 15, 1, 19 Inp2: 13, 15, 65, 19

Kernel name	Parameters
	Inp1: 4, 8, 2, 1 Inp2: 4, 8, 1, 2
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1
	Inp1: 1, 2 Inp2: 2, 1
	Inp1: 2, 1, 1 Inp2: 1, 2, 2
	Inp1: 6, 1, 1 Inp2: 1, 1, 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 1, 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 3, 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 1, 3, 2
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 3, 2
	Inp1: 2, 2, 3, 1 Inp2: 2, 2, 3, 1
	Inp1: 2, 2, 1, 1 Inp2: 2, 2, 1, 1
	Inp1: 2, 1, 1, 1 Inp2: 2, 1, 1, 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 1, 2
	Inp1: 2, 2, 3, 2 Inp2: 1, 2, 3, 2
	Inp1: 2, 2, 1, 2 Inp2: 2, 2, 3, 1
	Inp1: 2, 3, 3, 1 Inp2: 2, 3, 1, 2
	Inp1: 2, 1, 3, 2 Inp2: 2, 3, 3, 1
	Inp1: 2, 3, 3, 1 Inp2: 2, 1, 3, 2
	Inp1: 2, 1, 3, 2 Inp2: 2, 3, 1, 2
	Inp1: 5, 1 Inp2: 1, 6
	Inp1: 2, 3, 1, 2 Inp2: 2, 1, 3, 2
	Inp1: 1, 3, 1, 2 Inp2: 2, 1, 3, 1
	Inp1: 4, 6, 1, 2, 1 Inp2: 1, 6, 1, 1, 2
	Inp1: 2, 1, 5, 3, 1 Inp2: 1, 1, 1, 1, 2
	Inp1: 1, 1, 1, 1, 1 Inp2: 2, 3, 4, 5, 1
	Inp1: 6, 7, 8, 2, 2 Inp2: 1, 1, 1, 1, 1

Kernel name	Parameters
	Inp1: 2, 2, 3, 1 Inp2: 2, 2, 3, 2
	Inp1: 2, 2, 1, 1 Inp2: 2, 2, 3, 2
	Inp1: 2, 2, 1, 2 Inp2: 2, 2, 3, 2
	Inp1: 1, 2, 3, 2 Inp2: 2, 2, 3, 2
	Inp1: 2, 2, 2, 1 Inp2: 1, 1, 1, 1
	Inp1: 2, 2, 1, 1 Inp2: 1, 1, 1, 1
	Inp1: 2, 1, 1, 1 Inp2: 1, 1, 1, 1
xa_nn_elm_sub_32x32_32	Inp1: 10, 10, 7, 6 Inp2: 10, 10, 7, 6
	Inp1: 9, 8, 9, 9 Inp2: 9, 8, 9, 9
	Inp1: 4, 4, 10, 4, 10 Inp2: 4, 4, 10, 4, 10
	Inp1: 8, 9, 6, 4 Inp2: 8, 9, 6, 4
	Inp1: 1, 4, 5, 6 Inp2: 1, 4, 5, 6
	Inp1: 7, 6, 8, 7, 9 Inp2: 7, 6, 8, 7, 9
	Inp1: 4, 8, 2, 1 Inp2: 4, 8, 2, 1
	Inp1: 3, 2 Inp2: 3, 2
	Inp1: 3, 3, 1, 1 Inp2: 3, 3, 1, 1
	Inp1: 3, 2, 1, 2 Inp2: 3, 2, 1, 2
	Inp1: 8, 1, 1, 1 Inp2: 8, 1, 1, 1
	Inp1: 1, 1, 1 Inp2: 1, 1, 1
	Inp1: 8, 9 Inp2: 8, 9
	Inp1: 1, 3, 1, 2 Inp2: 1, 3, 1, 2
	Inp1: 2, 3, 1, 2, 4 Inp2: 2, 3, 1, 2, 4
	Inp1: 1, 3, 2, 4 Inp2: 1, 3, 2, 4
	Inp1: 4, 1, 2, 1 Inp2: 4, 1, 2, 1

Kernel name	Parameters
	Inp1: 6, 4, 6, 8 Inp2: 6, 4, 6, 8
xa_nn_elm_sub_scalar_32x32_32	Inp1: 4, 4, 1 Inp2: 1
	Inp1: 3, 10, 7 Inp2: 1
	Inp1: 2, 6, 6, 7 Inp2: 1
	Inp1: 8, 8, 7, 9 Inp2: 1
	Inp1: 10, 7, 5, 10, 2 Inp2: 1
	Inp1: 4, 4, 10 Inp2: 1
	Inp1: 1, 2, 8, 9 Inp2: 1
	Inp1: 7, 7, 7, 7 Inp2: 1
	Inp1: 3, 2, 8, 5 Inp2: 1
	Inp1: 3, 2 Inp2: 1
	Inp1: 3, 3, 1, 1 Inp2: 1
	Inp1: 3, 2, 1, 2 Inp2: 1
	Inp1: 8, 1, 1, 1 Inp2: 1
	Inp1: 1, 1, 1 Inp2: 1
	Inp1: 8, 9 Inp2: 1
	Inp1: 1, 3, 1, 2 Inp2: 1
	Inp1: 2, 3, 1, 2, 4 Inp2: 1
	Inp1: 1, 3, 2, 4 Inp2: 1
	Inp1: 4, 1, 2, 1 Inp2: 1
	Inp1: 1, 3, 2, 1 Inp2: 1
	Inp1: 4, 1, 1, 2 Inp2: 1
xa_nn_elm_sub_broadcast_5D_32x32_32	Inp1: 3, 1, 3, 5 Inp2: 3, 5, 3, 5
	Inp1: 15, 15, 1, 10, 13 Inp2: 15, 1, 16, 10, 13

Kernel name	Parameters
	Inp1: 1, 1, 11 Inp2: 8, 8, 11
	Inp1: 10, 48, 12, 54, 17 Inp2: 10, 1, 12, 54, 17
	Inp1: 65, 1 inp2: 65, 43
	Inp1: 5, 14, 71, 11, 1 Inp2: 5, 14, 71, 1, 23
	Inp1: 4, 8, 2, 1 Inp2: 4, 8, 1, 2
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1
	Inp1: 1, 2 Inp2: 2, 1
	Inp1: 2, 1, 1 Inp2: 1, 2, 2
	Inp1: 6, 1, 1 Inp2: 1, 1, 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 1, 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 3, 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 1, 3, 2
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 3, 2
	Inp1: 2, 2, 3, 1 Inp2: 2, 2, 3, 1
	Inp1: 2, 2, 1, 1 Inp2: 2, 2, 1, 1
	Inp1: 2, 1, 1, 1 Inp2: 2, 1, 1, 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 1, 2
	Inp1: 2, 2, 3, 2 Inp2: 1, 2, 3, 2
	Inp1: 2, 2, 1, 2 Inp2: 2, 2, 3, 1
	Inp1: 2, 3, 3, 1 Inp2: 2, 3, 1, 2
	Inp1: 2, 1, 3, 2 Inp2: 2, 3, 3, 1
	Inp1: 2, 3, 3, 1 Inp2: 2, 1, 3, 2
	Inp1: 2, 1, 3, 2 Inp2: 2, 3, 1, 2
	Inp1: 5, 1 Inp2: 1, 6
	Inp1: 2, 3, 1, 2 Inp2: 2, 1, 3, 2

Kernel name	Parameters
	Inp1: 1, 3, 1, 2 Inp2: 2, 1, 3, 1
	Inp1: 4, 6, 1, 2, 1 Inp2: 1, 6, 1, 1, 2
	Inp1: 2, 1, 5, 3, 1 Inp2: 1, 1, 1, 1, 2
	Inp1: 1, 1, 1, 1, 1 Inp2: 2, 3, 4, 5, 1
	Inp1: 6, 7, 8, 2, 2 Inp2: 1, 1, 1, 1, 1
	Inp1: 2, 2, 3, 1 Inp2: 2, 2, 3, 2
	Inp1: 2, 2, 1, 1 Inp2: 2, 2, 3, 2
	Inp1: 2, 2, 1, 2 Inp2: 2, 2, 3, 2
	Inp1: 1, 2, 3, 2 Inp2: 2, 2, 3, 2
	Inp1: 2, 2, 2, 1 Inp2: 1, 1, 1, 1
	Inp1: 2, 2, 1, 1 Inp2: 1, 1, 1, 1
	Inp1: 2, 1, 1, 1 Inp2: 1, 1, 1, 1
	Inp1: 1, 160, 7, 7 Inp2: 34, 160, 7, 7
xa_nn_slice – Signed 8-bit	Inp1: 10, 4, 7, 9 axis: 0 start: 5 end: 5 step: 95
	Inp1: 7, 8, 7, 9 axis: 1 start: 4 end: 7 step: 31
	Inp1: 10, 9, 10, 5, 10 axis: 1 start: 8 end: 8 step: 53
	Inp1: 4, 5, 4, 6, 9 axis: 1 start: 4 end: 4 step: 65
	Inp1: 8, 6, 5, 8 axis: 0 start: 7

Kernel name	Parameters
	end: 7 step: 74
	Inp1: 7, 9, 8, 7 axis: 3 start: 1 end: 3 step: 80
	Inp1: 5, 5, 7, 4 axis: 2 start: 3 end: 3 step: 26
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 0 end: 1 step: 3
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 1 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 1 end: 1 step: 17
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 0 end: 2 step: 3
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 0 end: 2 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 2 end: 2

Kernel name	Parameters
	step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 1 end: 2 step: 64
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0 end: 0 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 1 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 5
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 5
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 0

Kernel name	Parameters
	end: 3 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 3 end: 3 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 2 end: 3 step: 5
	Inp1: 4, 8, 2, 1 axis: 0 start: 0 end: 3 step: 3
	Inp1: 4, 8, 2, 1 axis: 0 start: 0 end: 1 step: 1
	Inp1: 4, 8, 2, 1 axis: 0 start: 3 end: 3 step: 1
	Inp1: 4, 8, 2, 1 axis: 0 start: 1 end: 2 step: 17
	Inp1: 4, 8, 2, 1 axis: 1 start: 0 end: 7 step: 3
	Inp1: 4, 8, 2, 1 axis: 1 start: 0

Kernel name	Parameters
	end: 3 step: 1
	Inp1: 4, 8, 2, 1 axis: 1 start: 7 end: 7 step: 1
	Inp1: 4, 8, 2, 1 axis: 1 start: 4 end: 6 step: 64
	Inp1: 4, 8, 2, 1 axis: 2 start: 0 end: 1 step: 9
	Inp1: 4, 8, 2, 1 axis: 2 start: 0 end: 0 step: 1
	Inp1: 4, 8, 2, 1 axis: 2 start: 1 end: 1 step: 1
	Inp1: 4, 8, 2, 1 axis: 2 start: 1 end: 1 step: 5
	Inp1: 4, 8, 2, 1 axis: 3 start: 0 end: 0 step: 9
	Inp1: 4, 8, 2, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 0

Kernel name	Parameters
	end: 2 step: 3
	Inp1: 3, 2, 1, 2 axis: 0 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 2 end: 2 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 2 end: 2 step: 17
	Inp1: 3, 2, 1, 2 axis: 1 start: 0 end: 1 step: 3
	Inp1: 3, 2, 1, 2 axis: 1 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 1 start: 1 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 1 start: 1 end: 1 step: 64
	Inp1: 3, 2, 1, 2 axis: 2 start: 0 end: 0 step: 9
	Inp1: 3, 2, 1, 2 axis: 2 start: 0

Kernel name	Parameters
	end: 0 step: 1
	Inp1: 3, 2, 1, 2 axis: 2 start: 0 end: 0 step: 5
	Inp1: 3, 2, 1, 2 axis: 3 start: 0 end: 1 step: 9
	Inp1: 3, 2, 1, 2 axis: 3 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 3 start: 1 end: 1 step: 5
	Inp1: 3, 3, 1, 1 axis: 0 start: 0 end: 2 step: 3
	Inp1: 3, 3, 1, 1 axis: 0 start: 0 end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 0 start: 2 end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 0 start: 2 end: 2 step: 17
	Inp1: 3, 3, 1, 1 axis: 1 start: 0

Kernel name	Parameters
	end: 2 step: 3
	Inp1: 3, 3, 1, 1 axis: 1 start: 0 end: 1 step: 1
	Inp1: 3, 3, 1, 1 axis: 1 start: 2 end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 1 start: 2 end: 2 step: 64
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 9
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 5
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 9
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 3 start: 0

Kernel name	Parameters
	end: 0 step: 5
	Inp1: 1, 1, 1, 1 axis: 0 start: 0 end: 0 step: 1
	Inp1: 1, 1, 1, 1 axis: 1 start: 0 end: 0 step: 3
	Inp1: 1, 1, 1, 1 axis: 2 start: 0 end: 0 step: 9
	Inp1: 1, 1, 1, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 4, 1, 2, 1 axis: 3 start: 0 end: 0 step: 1
xa_nn_slice – Signed 16-bit	Inp1: 5, 5, 7, 4, 4 axis: 3 start: 0 end: 2 step: 8
	Inp1: 4, 9, 8, 10 axis: 0 start: 2 end: 3 step: 64
	Inp1: 5, 4, 6, 10 axis: 0 start: 3 end: 3 step: 42
	Inp1: 4, 7, 10, 4, 4 axis: 2 start: 9

Kernel name	Parameters
	end: 9 step: 79
	Inp1: 8, 8, 10, 5, 9 axis: 3 start: 1 end: 2 step: 86
	Inp1: 6, 7, 7, 8 axis: 1 start: 5 end: 6 step: 7
	Inp1: 8, 9, 4, 7 axis: 3 start: 1 end: 1 step: 17
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 0 end: 1 step: 3
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 1 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 1 end: 1 step: 17
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 0 end: 2 step: 3
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 0 end: 2

Kernel name	Parameters
	step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 2 end: 2 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 1 end: 2 step: 64
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0 end: 0 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 1 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 5
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0

Kernel name	Parameters
	end: 1 step: 5
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 0 end: 3 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 3 end: 3 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 2 end: 3 step: 5
	Inp1: 4, 8, 2, 1 axis: 0 start: 0 end: 3 step: 3
	Inp1: 4, 8, 2, 1 axis: 0 start: 0 end: 1 step: 1
	Inp1: 4, 8, 2, 1 axis: 0 start: 3 end: 3 step: 1
	Inp1: 4, 8, 2, 1 axis: 0 start: 1 end: 2 step: 17
	Inp1: 4, 8, 2, 1 axis: 1 start: 0

Kernel name	Parameters
	end: 7 step: 3
	Inp1: 4, 8, 2, 1 axis: 1 start: 0 end: 3 step: 1
	Inp1: 4, 8, 2, 1 axis: 1 start: 7 end: 7 step: 1
	Inp1: 4, 8, 2, 1 axis: 1 start: 4 end: 6 step: 64
	Inp1: 4, 8, 2, 1 axis: 2 start: 0 end: 1 step: 9
	Inp1: 4, 8, 2, 1 axis: 2 start: 0 end: 0 step: 1
	Inp1: 4, 8, 2, 1 axis: 2 start: 1 end: 1 step: 1
	Inp1: 4, 8, 2, 1 axis: 2 start: 1 end: 1 step: 5
	Inp1: 4, 8, 2, 1 axis: 3 start: 0 end: 0 step: 9
	Inp1: 4, 8, 2, 1 axis: 3 start: 0

Kernel name	Parameters
	end: 0 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 0 end: 2 step: 3
	Inp1: 3, 2, 1, 2 axis: 0 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 2 end: 2 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 2 end: 2 step: 17
	Inp1: 3, 2, 1, 2 axis: 1 start: 0 end: 1 step: 3
	Inp1: 3, 2, 1, 2 axis: 1 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 1 start: 1 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 1 start: 1 end: 1 step: 64
	Inp1: 3, 2, 1, 2 axis: 2 start: 0

Kernel name	Parameters
	end: 0 step: 9
	Inp1: 3, 2, 1, 2 axis: 2 start: 0 end: 0 step: 1
	Inp1: 3, 2, 1, 2 axis: 2 start: 0 end: 0 step: 5
	Inp1: 3, 2, 1, 2 axis: 3 start: 0 end: 1 step: 9
	Inp1: 3, 2, 1, 2 axis: 3 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 3 start: 1 end: 1 step: 5
	Inp1: 3, 3, 1, 1 axis: 0 start: 0 end: 2 step: 3
	Inp1: 3, 3, 1, 1 axis: 0 start: 0 end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 0 start: 2 end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 0 start: 2

Kernel name	Parameters
	end: 2 step: 17
	Inp1: 3, 3, 1, 1 axis: 1 start: 0 end: 2 step: 3
	Inp1: 3, 3, 1, 1 axis: 1 start: 0 end: 1 step: 1
	Inp1: 3, 3, 1, 1 axis: 1 start: 2 end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 1 start: 2 end: 2 step: 64
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 9
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 5
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 9
	Inp1: 3, 3, 1, 1 axis: 3 start: 0

Kernel name	Parameters
	end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 5
	Inp1: 1, 1, 1, 1 axis: 0 start: 0 end: 0 step: 1
	Inp1: 1, 1, 1, 1 axis: 1 start: 0 end: 0 step: 3
	Inp1: 1, 1, 1, 1 axis: 2 start: 0 end: 0 step: 9
	Inp1: 1, 1, 1, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 4, 1, 2, 1 axis: 3 start: 0 end: 0 step: 1
xa_nn_slice – Signed 32-bit	Inp1: 6, 9, 9, 4, 6 axis: 3 start: 2 end: 3 step: 73
	Inp1: 7, 10, 6, 6 axis: 0 start: 4 end: 6 step: 46
	Inp1: 9, 8, 10, 4, 7 axis: 0 start: 3

Kernel name	Parameters
	end: 3 step: 47
	Inp1: 4, 7, 5, 9 axis: 1 start: 2 end: 5 step: 67
	Inp1: 10, 6, 5, 8 axis: 2 start: 2 end: 3 step: 35
	Inp1: 9, 10, 8, 10 axis: 3 start: 1 end: 4 step: 68
	Inp1: 5, 4, 7, 7, 6 axis: 1 start: 3 end: 3 step: 79
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 0 end: 1 step: 3
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 1 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 1 end: 1 step: 17
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 0 end: 2

Kernel name	Parameters
	step: 3
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 0 end: 2 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 2 end: 2 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 1 end: 2 step: 64
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0 end: 0 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 1 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0

Kernel name	Parameters
	end: 1 step: 5
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 5
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 0 end: 3 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 3 end: 3 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 2 end: 3 step: 5
	Inp1: 4, 8, 2, 1 axis: 0 start: 0 end: 3 step: 3
	Inp1: 4, 8, 2, 1 axis: 0 start: 0 end: 1 step: 1
	Inp1: 4, 8, 2, 1 axis: 0 start: 3 end: 3 step: 1
	Inp1: 4, 8, 2, 1 axis: 0 start: 1

Kernel name	Parameters
	end: 2 step: 17
	Inp1: 4, 8, 2, 1 axis: 1 start: 0 end: 7 step: 3
	Inp1: 4, 8, 2, 1 axis: 1 start: 0 end: 3 step: 1
	Inp1: 4, 8, 2, 1 axis: 1 start: 7 end: 7 step: 1
	Inp1: 4, 8, 2, 1 axis: 1 start: 4 end: 6 step: 64
	Inp1: 4, 8, 2, 1 axis: 2 start: 0 end: 1 step: 9
	Inp1: 4, 8, 2, 1 axis: 2 start: 0 end: 0 step: 1
	Inp1: 4, 8, 2, 1 axis: 2 start: 1 end: 1 step: 1
	Inp1: 4, 8, 2, 1 axis: 2 start: 1 end: 1 step: 5
	Inp1: 4, 8, 2, 1 axis: 3 start: 0

Kernel name	Parameters
	end: 0 step: 9
	Inp1: 4, 8, 2, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 0 end: 2 step: 3
	Inp1: 3, 2, 1, 2 axis: 0 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 2 end: 2 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 2 end: 2 step: 17
	Inp1: 3, 2, 1, 2 axis: 1 start: 0 end: 1 step: 3
	Inp1: 3, 2, 1, 2 axis: 1 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 1 start: 1 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 1 start: 1

Kernel name	Parameters
	end: 1 step: 64
	Inp1: 3, 2, 1, 2 axis: 2 start: 0 end: 0 step: 9
	Inp1: 3, 2, 1, 2 axis: 2 start: 0 end: 0 step: 1
	Inp1: 3, 2, 1, 2 axis: 2 start: 0 end: 0 step: 5
	Inp1: 3, 2, 1, 2 axis: 3 start: 0 end: 1 step: 9
	Inp1: 3, 2, 1, 2 axis: 3 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 3 start: 1 end: 1 step: 5
	Inp1: 3, 3, 1, 1 axis: 0 start: 0 end: 2 step: 3
	Inp1: 3, 3, 1, 1 axis: 0 start: 0 end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 0 start: 2

Kernel name	Parameters
	end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 0 start: 2 end: 2 step: 17
	Inp1: 3, 3, 1, 1 axis: 1 start: 0 end: 2 step: 3
	Inp1: 3, 3, 1, 1 axis: 1 start: 0 end: 1 step: 1
	Inp1: 3, 3, 1, 1 axis: 1 start: 2 end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 1 start: 2 end: 2 step: 64
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 9
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 5
	Inp1: 3, 3, 1, 1 axis: 3 start: 0

Kernel name	Parameters
	end: 0 step: 9
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 5
	Inp1: 1, 1, 1, 1 axis: 0 start: 0 end: 0 step: 1
	Inp1: 1, 1, 1, 1 axis: 1 start: 0 end: 0 step: 3
	Inp1: 1, 1, 1, 1 axis: 2 start: 0 end: 0 step: 9
	Inp1: 1, 1, 1, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 4, 1, 2, 1 axis: 3 start: 0 end: 0 step: 1
xa_nn_slice – Unsigned 8-bit	Inp1: 8, 9, 7, 9, 7 axis: 4 start: 0 end: 4 step: 36
	Inp1: 8, 8, 6, 7 axis: 3 start: 5

Kernel name	Parameters
	end: 6 step: 33
	Inp1: 4, 8, 6, 6, 7 axis: 3 start: 2 end: 5 step: 77
	Inp1: 4, 9, 6, 7, 4 axis: 3 start: 5 end: 6 step: 39
	Inp1: 9, 9, 9, 8, 7 axis: 3 start: 2 end: 2 step: 89
	Inp1: 4, 7, 8, 4 axis: 3 start: 0 end: 0 step: 5
	Inp1: 5 9, , 7, 5 axis: 1 start: 5 end: 6 step: 9
	Inp1: 8, 9, 7, 9, 7 axis: 4 start: 0 end: 6 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 0 end: 1 step: 3
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 1

Kernel name	Parameters
	end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 1 end: 1 step: 17
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 0 end: 2 step: 3
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 0 end: 2 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 2 end: 2 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 1 end: 2 step: 64
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0 end: 0 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0

Kernel name	Parameters
	end: 0 step: 5
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 1 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 5
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 5
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 0 end: 3 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 3 end: 3 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 2

Kernel name	Parameters
	end: 3 step: 5
	Inp1: 4, 8, 2, 1 axis: 0 start: 0 end: 3 step: 3
	Inp1: 4, 8, 2, 1 axis: 0 start: 0 end: 1 step: 1
	Inp1: 4, 8, 2, 1 axis: 0 start: 3 end: 3 step: 1
	Inp1: 4, 8, 2, 1 axis: 0 start: 1 end: 2 step: 17
	Inp1: 4, 8, 2, 1 axis: 1 start: 0 end: 7 step: 3
	Inp1: 4, 8, 2, 1 axis: 1 start: 0 end: 3 step: 1
	Inp1: 4, 8, 2, 1 axis: 1 start: 7 end: 7 step: 1
	Inp1: 4, 8, 2, 1 axis: 1 start: 4 end: 6 step: 64
	Inp1: 4, 8, 2, 1 axis: 2 start: 0

Kernel name	Parameters
	end: 1 step: 9
	Inp1: 4, 8, 2, 1 axis: 2 start: 0 end: 0 step: 1
	Inp1: 4, 8, 2, 1 axis: 2 start: 1 end: 1 step: 1
	Inp1: 4, 8, 2, 1 axis: 2 start: 1 end: 1 step: 5
	Inp1: 4, 8, 2, 1 axis: 3 start: 0 end: 0 step: 9
	Inp1: 4, 8, 2, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 4, 8, 2, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 4, 8, 2, 1 axis: 3 start: 0 end: 0 step: 5
	Inp1: 3, 2, 1, 2 axis: 0 start: 0 end: 2 step: 3
	Inp1: 3, 2, 1, 2 axis: 0 start: 0

Kernel name	Parameters
	end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 2 end: 2 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 2 end: 2 step: 17
	Inp1: 3, 2, 1, 2 axis: 1 start: 0 end: 1 step: 3
	Inp1: 3, 2, 1, 2 axis: 1 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 1 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 1 start: 1 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 1 start: 1 end: 1 step: 64
	Inp1: 3, 2, 1, 2 axis: 2 start: 0

Kernel name	Parameters
	end: 0 step: 9
	Inp1: 3, 2, 1, 2 axis: 2 start: 0 end: 0 step: 1
	Inp1: 3, 2, 1, 2 axis: 2 start: 0 end: 0 step: 5
	Inp1: 3, 2, 1, 2 axis: 3 start: 0 end: 1 step: 9
	Inp1: 3, 2, 1, 2 axis: 3 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 3 start: 1 end: 1 step: 5
	Inp1: 3, 3, 1, 1 axis: 0 start: 0 end: 2 step: 3
	Inp1: 3, 3, 1, 1 axis: 0 start: 0 end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 0 start: 2 end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 0 start: 2

Kernel name	Parameters
	end: 2 step: 17
	Inp1: 3, 3, 1, 1 axis: 1 start: 0 end: 2 step: 3
	Inp1: 3, 3, 1, 1 axis: 1 start: 0 end: 1 step: 1
	Inp1: 3, 3, 1, 1 axis: 1 start: 2 end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 1 start: 2 end: 2 step: 64
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 9
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 5
	Inp1: 3, 3, 1, 1 axis: 3 start: 0

Kernel name	Parameters
	end: 0 step: 9
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 5
	Inp1: 1, 1, 1, 1 axis: 0 start: 0 end: 0 step: 1
	Inp1: 1, 1, 1, 1 axis: 1 start: 0 end: 0 step: 3
	Inp1: 1, 1, 1, 1 axis: 2 start: 0 end: 0 step: 9
	Inp1: 1, 1, 1, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 4, 1, 2, 1 axis: 3 start: 0 end: 0 step: 1
xa_nn_slice – Unsigned 16-bit	Inp1: 5, 5, 10, 7 axis: 0 start: 1

Kernel name	Parameters
	end: 2 step: 42
	Inp1: 9, 4, 4, 8, 7 axis: 0 start: 5 end: 8 step: 66
	Inp1: 7, 10, 6, 7, 5 axis: 0 start: 2 end: 6 step: 49
	Inp1: 9, 8, 6, 8 axis: 3 start: 5 end: 5 step: 23
	Inp1: 4, 7, 10, 5 axis: 2 start: 7 end: 7 step: 11
	Inp1: 9, 10, 5, 5, 4 axis: 1 start: 3 end: 8 step: 89
	Inp1: 7, 8, 5, 10 axis: 3 start: 1 end: 3 step: 36
	Inp1: 9, 10, 5, 5, 4 axis: 4 start: 0 end: 3 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 0 end: 1 step: 3
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 0

Kernel name	Parameters
	end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 1 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 1 end: 1 step: 17
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 0 end: 2 step: 3
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 0 end: 2 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 2 end: 2 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 1 end: 2 step: 64
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0 end: 0 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0

Kernel name	Parameters
	end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0 end: 0 step: 5
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 1 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 5
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 5
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 0 end: 3 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 3

Kernel name	Parameters
	end: 3 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 2 end: 3 step: 5
	Inp1: 4, 8, 2, 1 axis: 0 start: 0 end: 3 step: 3
	Inp1: 4, 8, 2, 1 axis: 0 start: 0 end: 1 step: 1
	Inp1: 4, 8, 2, 1 axis: 0 start: 3 end: 3 step: 1
	Inp1: 4, 8, 2, 1 axis: 0 start: 1 end: 2 step: 17
	Inp1: 4, 8, 2, 1 axis: 1 start: 0 end: 7 step: 3
	Inp1: 4, 8, 2, 1 axis: 1 start: 0 end: 3 step: 1
	Inp1: 4, 8, 2, 1 axis: 1 start: 7 end: 7 step: 1
	Inp1: 4, 8, 2, 1 axis: 1 start: 4

Kernel name	Parameters
	end: 6 step: 64
	Inp1: 4, 8, 2, 1 axis: 2 start: 0 end: 1 step: 9
	Inp1: 4, 8, 2, 1 axis: 2 start: 0 end: 0 step: 1
	Inp1: 4, 8, 2, 1 axis: 2 start: 1 end: 1 step: 1
	Inp1: 4, 8, 2, 1 axis: 2 start: 1 end: 1 step: 5
	Inp1: 4, 8, 2, 1 axis: 3 start: 0 end: 0 step: 9
	Inp1: 4, 8, 2, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 4, 8, 2, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 4, 8, 2, 1 axis: 3 start: 0 end: 0 step: 5
	Inp1: 3, 2, 1, 2 axis: 0 start: 0

Kernel name	Parameters
	end: 2 step: 3
	Inp1: 3, 2, 1, 2 axis: 0 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 2 end: 2 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 2 end: 2 step: 17
	Inp1: 3, 2, 1, 2 axis: 1 start: 0 end: 1 step: 3
	Inp1: 3, 2, 1, 2 axis: 1 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 1 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 1 start: 1 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 1 start: 1

Kernel name	Parameters
	end: 1 step: 64
	Inp1: 3, 2, 1, 2 axis: 2 start: 0 end: 0 step: 9
	Inp1: 3, 2, 1, 2 axis: 2 start: 0 end: 0 step: 1
	Inp1: 3, 2, 1, 2 axis: 2 start: 0 end: 0 step: 5
	Inp1: 3, 2, 1, 2 axis: 3 start: 0 end: 1 step: 9
	Inp1: 3, 2, 1, 2 axis: 3 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 3 start: 1 end: 1 step: 5
	Inp1: 3, 3, 1, 1 axis: 0 start: 0 end: 2 step: 3
	Inp1: 3, 3, 1, 1 axis: 0 start: 0 end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 0 start: 2

Kernel name	Parameters
	end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 0 start: 2 end: 2 step: 17
	Inp1: 3, 3, 1, 1 axis: 1 start: 0 end: 2 step: 3
	Inp1: 3, 3, 1, 1 axis: 1 start: 0 end: 1 step: 1
	Inp1: 3, 3, 1, 1 axis: 1 start: 2 end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 1 start: 2 end: 2 step: 64
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 9
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 2 start: 0

Kernel name	Parameters
	end: 0 step: 5
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 9
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 5
	Inp1: 1, 1, 1, 1 axis: 0 start: 0 end: 0 step: 1
	Inp1: 1, 1, 1, 1 axis: 1 start: 0 end: 0 step: 3
	Inp1: 1, 1, 1, 1 axis: 2 start: 0 end: 0 step: 9
	Inp1: 1, 1, 1, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 4, 1, 2, 1 axis: 3 start: 0

Kernel name	Parameters
	end: 0 step: 1
xa_nn_slice – Unsigned 32-bit	Inp1: 9, 7, 6, 5, 8 axis: 0 start: 5 end: 8 step: 86
	Inp1: 10, 9, 8, 4 axis: 0 start: 8 end: 9 step: 15
	Inp1: 5, 10, 9, 7, 4 axis: 3 start: 4 end: 5 step: 43
	Inp1: 7, 5, 7, 5 axis: 3 start: 1 end: 2 step: 66
	Inp1: 10, 5, 7, 8, 8 axis: 2 start: 4 end: 4 step: 78
	Inp1: 7, 8, 10, 6, 5 axis: 0 start: 1 end: 5 step: 44
	Inp1: 5, 7, 5, 7, 8 axis: 1 start: 1 end: 5 step: 17
	Inp1: 9, 7, 6, 5, 8 axis: 4 start: 0 end: 7 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 0 end: 0

Kernel name	Parameters
	step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 1 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 0 start: 1 end: 1 step: 17
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 0 end: 2 step: 3
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 0 end: 2 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 2 end: 2 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 1 start: 1 end: 2 step: 64
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0 end: 0 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0

Kernel name	Parameters
	end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 2 start: 0 end: 0 step: 5
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 1 end: 1 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 5
	Inp1: 2, 3, 1, 2, 4 axis: 3 start: 0 end: 1 step: 5
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 0 end: 3 step: 9
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 0 end: 0 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 3

Kernel name	Parameters
	end: 3 step: 1
	Inp1: 2, 3, 1, 2, 4 axis: 4 start: 2 end: 3 step: 5
	Inp1: 4, 8, 2, 1 axis: 0 start: 0 end: 3 step: 3
	Inp1: 4, 8, 2, 1 axis: 0 start: 0 end: 1 step: 1
	Inp1: 4, 8, 2, 1 axis: 0 start: 3 end: 3 step: 1
	Inp1: 4, 8, 2, 1 axis: 0 start: 1 end: 2 step: 17
	Inp1: 4, 8, 2, 1 axis: 1 start: 0 end: 7 step: 3
	Inp1: 4, 8, 2, 1 axis: 1 start: 0 end: 3 step: 1
	Inp1: 4, 8, 2, 1 axis: 1 start: 7 end: 7 step: 1
	Inp1: 4, 8, 2, 1 axis: 1 start: 4

Kernel name	Parameters
	end: 6 step: 64
	Inp1: 4, 8, 2, 1 axis: 2 start: 0 end: 1 step: 9
	Inp1: 4, 8, 2, 1 axis: 2 start: 0 end: 0 step: 1
	Inp1: 4, 8, 2, 1 axis: 2 start: 1 end: 1 step: 1
	Inp1: 4, 8, 2, 1 axis: 2 start: 1 end: 1 step: 5
	Inp1: 4, 8, 2, 1 axis: 3 start: 0 end: 0 step: 9
	Inp1: 4, 8, 2, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 4, 8, 2, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 4, 8, 2, 1 axis: 3 start: 0 end: 0 step: 5
	Inp1: 3, 2, 1, 2 axis: 0 start: 0

Kernel name	Parameters
	end: 2 step: 3
	Inp1: 3, 2, 1, 2 axis: 0 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 2 end: 2 step: 1
	Inp1: 3, 2, 1, 2 axis: 0 start: 2 end: 2 step: 17
	Inp1: 3, 2, 1, 2 axis: 1 start: 0 end: 1 step: 3
	Inp1: 3, 2, 1, 2 axis: 1 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 1 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 1 start: 1 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 1 start: 1

Kernel name	Parameters
	end: 1 step: 64
	Inp1: 3, 2, 1, 2 axis: 2 start: 0 end: 0 step: 9
	Inp1: 3, 2, 1, 2 axis: 2 start: 0 end: 0 step: 1
	Inp1: 3, 2, 1, 2 axis: 2 start: 0 end: 0 step: 5
	Inp1: 3, 2, 1, 2 axis: 3 start: 0 end: 1 step: 9
	Inp1: 3, 2, 1, 2 axis: 3 start: 0 end: 1 step: 1
	Inp1: 3, 2, 1, 2 axis: 3 start: 1 end: 1 step: 5
	Inp1: 3, 3, 1, 1 axis: 0 start: 0 end: 2 step: 3
	Inp1: 3, 3, 1, 1 axis: 0 start: 0 end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 0 start: 2

Kernel name	Parameters
	end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 0 start: 2 end: 2 step: 17
	Inp1: 3, 3, 1, 1 axis: 1 start: 0 end: 2 step: 3
	Inp1: 3, 3, 1, 1 axis: 1 start: 0 end: 1 step: 1
	Inp1: 3, 3, 1, 1 axis: 1 start: 2 end: 2 step: 1
	Inp1: 3, 3, 1, 1 axis: 1 start: 2 end: 2 step: 64
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 9
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 2 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 2 start: 0

Kernel name	Parameters
	end: 0 step: 5
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 9
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 3, 3, 1, 1 axis: 3 start: 0 end: 0 step: 5
	Inp1: 1, 1, 1, 1 axis: 0 start: 0 end: 0 step: 1
	Inp1: 1, 1, 1, 1 axis: 1 start: 0 end: 0 step: 3
	Inp1: 1, 1, 1, 1 axis: 2 start: 0 end: 0 step: 9
	Inp1: 1, 1, 1, 1 axis: 3 start: 0 end: 0 step: 1
	Inp1: 4, 1, 2, 1 axis: 3 start: 0

Kernel name	Parameters
	end: 0 step: 1
xa_nn_elm_div_32x32_32	Inp1: 9, 8, 9, 9 Mode: 1
	Inp1: 10, 10, 7, 6 Mode: 2
	Inp1: 4, 4, 10, 4, 10 Mode: 1
	Inp1: 8, 9, 6, 4 Mode: 2
	Inp1: 4, 5, 6 Mode: 1
	Inp1: 7, 6, 8, 7, 9 Mode: 2
	Inp1: 6, 4, 6, 8 Mode: 1
	Inp1: 3, 2 Mode: 2
	Inp1: 3, 3, 1, 1 Mode: 2
	Inp1: 3, 2, 1, 2 Mode: 2
	Inp1: 8, 1, 1, 1 Mode: 2
	Inp1: 1, 1, 1 Mode: 2
	Inp1: 8, 9 Mode: 2
	Inp1: 1, 3, 1, 2 Mode: 2
	Inp1: 2, 3, 1, 2, 4 Mode: 2
	Inp1: 1, 3, 2, 4 Mode: 2
	Inp1: 4, 1, 2, 1 Mode: 2
	Inp1: 3, 2 Mode: 1
	Inp1: 3, 3, 1, 1 Mode: 1
	Inp1: 3, 2, 1, 2 Mode: 1
	Inp1: 8, 1, 1, 1 Mode: 1
	Inp1: 1, 1, 1 Mode: 1

Kernel name	Parameters
	Inp1: 8, 9 Mode: 1
	Inp1: 1, 3, 1, 2 Mode: 1
	Inp1: 2, 3, 1, 2, 4 Mode: 1
	Inp1: 1, 3, 2, 4 Mode: 1
	Inp1: 4, 1, 2, 1 Mode: 1
xa_nn_elm_div_scalar_32x32_32	Inp1: 9, 9, 9, 4, 5 Mode: 1
	Inp1: 6, 5, 9, 5 Mode: 2
	Inp1: 7, 10, 7, 6, 4 Mode: 1
	Inp1: 8, 5, 6, 6 Mode: 2
	Inp1: 9, 11, 4, 11, 6 Mode: 1
	Inp1: 7, 10, 11, 8 Mode: 2
	Inp1: 11, 6, 4, 5, 7 Mode: 1
	Inp1: 3, 2 Mode: 2
	Inp1: 3, 3, 1, 1 Mode: 2
	Inp1: 3, 2, 1, 2 Mode: 2
	Inp1: 8, 1, 1, 1 Mode: 2
	Inp1: 1, 1, 1 Mode: 2
	Inp1: 8, 9 Mode: 2
	Inp1: 1, 3, 1, 2 Mode: 2
	Inp1: 2, 3, 1, 2, 4 Mode: 2
	Inp1: 1, 3, 2, 4 Mode: 2
	Inp1: 4, 1, 2, 1 Mode: 2
	Inp1: 3, 2 Mode: 1
	Inp1: 3, 3, 1, 1 Mode: 1

Kernel name	Parameters
	Inp1: 3, 2, 1, 2 Mode: 1
	Inp1: 8, 1, 1, 1 Mode: 1
	Inp1: 1, 1, 1 Mode: 1
	Inp1: 8, 9 Mode: 1
	Inp1: 1, 3, 1, 2 Mode: 1
	Inp1: 2, 3, 1, 2, 4 Mode: 1
	Inp1: 1, 3, 2, 4 Mode: 1
	Inp1: 4, 1, 2, 1 Mode: 1
xa_nn_elm_div_broadcast_5D_32x32_32	Inp1: 15, 10, 5, 30, 18 Inp2: 15, 1, 5, 30, 18 Mode: 1
	Inp1: 87, 9, 15, 5 Inp2: 87, 9, 1, 1 Mode: 1
	Inp1: 1, 1, 1, 1 Inp2: 3, 12, 34, 8 Mode: 1
	Inp1: 92, 13, 1, 4, 2 Inp2: 92, 13, 4, 1, 2 Mode: 1
	Inp1: 1, 1, 38, 45 Inp2: 1, 1, 38, 1 Mode: 1
	Inp1: 1, 98, 1, 5, 48 Inp2: 1, 1, 2, 1, 1 Mode: 1
	Inp1: 66, 1, 6, 3 Inp2: 1, 55, 6, 3 Mode: 1
	Inp1: 87, 9, 1, 1 Inp2: 87, 9, 15, 5 Mode: 1
	Inp1: 3, 12, 34, 8 Inp2: 1, 1, 1, 1 Mode:1
	Inp1: 92, 13, 4, 1, 2 Inp2: 92, 13, 1, 4, 2 Mode: 1
	Inp1: 1, 1, 38, 1

Kernel name	Parameters
	Inp2: 1, 1, 38, 45 Mode: 1
	Inp1: 4, 8, 2, 1 Inp2: 4, 8, 1, 2 Mode: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1 Mode: 1
	Inp1: 1, 2 Inp2: 2, 1 Mode: 1
	Inp1: 2, 1, 1 Inp2: 1, 2, 2 Mode: 1
	Inp1: 6, 1, 1 Inp2: 1, 1, 1 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 1, 1 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 3, 1 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 1, 3, 2 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 3, 2 Mode: 1
	Inp1: 2, 2, 3, 1 Inp2: 2, 2, 3, 1 Mode: 1
	Inp1: 2, 2, 1, 1 Inp2: 2, 2, 1, 1 Mode: 1
	Inp1: 2, 1, 1, 1 Inp2: 2, 1, 1, 1 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 1, 2 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 1, 2, 3, 2 Mode: 1
	Inp1: 2, 2, 1, 2 Inp2: 2, 2, 3, 1 Mode: 1
	Inp1: 2, 3, 3, 1 Inp2: 2, 3, 1, 2 Mode: 1
	Inp1: 2, 1, 3, 2

Kernel name	Parameters
	Inp2: 2, 3, 3, 1 Mode: 1
	Inp1: 2, 3, 3, 1 Inp2: 2, 1, 3, 2 Mode: 1
	Inp1: 2, 1, 3, 2 Inp2: 2, 3, 1, 2 Mode: 1
	Inp1: 5, 1 Inp2: 1, 6 Mode: 1
	Inp1: 2, 3, 1, 2 Inp2: 2, 1, 3, 2 Mode: 1
	Inp1: 1, 3, 1, 2 Inp2: 2, 1, 3, 1 Mode: 1
	Inp1: 4, 6, 1, 2, 1 Inp2: 1, 6, 1, 1, 2 Mode: 1
	Inp1: 2, 1, 5, 3, 1 Inp2: 1, 1, 1, 1, 2 Mode: 1
	Inp1: 1, 1, 1, 1, 1 Inp2: 2, 3, 4, 5, 1 Mode: 1
	Inp1: 6, 7, 8, 2, 2 Inp2: 1, 1, 1, 1, 1 Mode: 1
	Inp1: 2, 2, 3, 1 Inp2: 2, 2, 3, 2 Mode: 1
	Inp1: 2, 2, 1, 1 Inp2: 2, 2, 3, 2 Mode: 1
	Inp1: 2, 2, 1, 2 Inp2: 2, 2, 3, 2 Mode: 1
	Inp1: 1, 2, 3, 2 Inp2: 2, 2, 3, 2 Mode: 1
	Inp1: 2, 2, 2, 1 Inp2: 1, 1, 1, 1 Mode: 1
	Inp1: 2, 2, 1, 1 Inp2: 1, 1, 1, 1 Mode: 1
	Inp1: 2, 1, 1, 1 Inp2: 1, 1, 1, 1 Mode: 1

Kernel name	Parameters
	Inp1: 15, 10, 5, 30, 18 Inp2: 15, 1, 5, 30, 18 Mode: 2
	Inp1: 87, 9, 15, 5 Inp2: 87, 9, 1, 1 Mode: 2
	Inp1: 1, 1, 1, 1 Inp2: 3, 12, 34, 8 Mode: 2
	Inp1: 92, 13, 1, 4, 2 Inp2: 92, 13, 4, 1, 2 Mode: 2
	Inp1: 1, 1, 38, 45 Inp2: 1, 1, 38, 1 Mode: 2
	Inp1: 1, 98, 1, 5, 48 Inp2: 1, 1, 2, 1, 1 Mode: 2
	Inp1: 66, 1, 6, 3 Inp2: 1, 55, 6, 3 Mode: 2
	Inp1: 87, 9, 1, 1 Inp2: 87, 9, 15, 5 Mode: 2
	Inp1: 3, 12, 34, 8 Inp2: 1, 1, 1, 1 Mode:1
	Inp1: 92, 13, 4, 1, 2 Inp2: 92, 13, 1, 4, 2 Mode: 2
	Inp1: 1, 1, 38, 1 Inp2: 1, 1, 38, 45 Mode: 2
	Inp1: 4, 8, 2, 1 Inp2: 4, 8, 1, 2 Mode: 2
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1 Mode: 2
	Inp1: 1, 2 Inp2: 2, 1 Mode: 2
	Inp1: 2, 1, 1 Inp2: 1, 2, 2 Mode: 2
	Inp1: 6, 1, 1 Inp2: 1, 1, 1 Mode: 2

Kernel name	Parameters
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 1, 1 Mode: 2
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 3, 1 Mode: 2
	Inp1: 2, 2, 3, 2 Inp2: 2, 1, 3, 2 Mode: 2
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 3, 2 Mode: 2
	Inp1: 2, 2, 3, 1 Inp2: 2, 2, 3, 1 Mode: 2
	Inp1: 2, 2, 1, 1 Inp2: 2, 2, 1, 1 Mode: 2
	Inp1: 2, 1, 1, 1 Inp2: 2, 1, 1, 1 Mode: 2
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 1, 2 Mode: 2
	Inp1: 2, 2, 3, 2 Inp2: 1, 2, 3, 2 Mode: 2
	Inp1: 2, 2, 1, 2 Inp2: 2, 2, 3, 1 Mode: 2
	Inp1: 2, 3, 3, 1 Inp2: 2, 3, 1, 2 Mode: 2
	Inp1: 2, 1, 3, 2 Inp2: 2, 3, 3, 1 Mode: 2
	Inp1: 2, 3, 3, 1 Inp2: 2, 1, 3, 2 Mode: 2
	Inp1: 2, 1, 3, 2 Inp2: 2, 3, 1, 2 Mode: 2
	Inp1: 5, 1 Inp2: 1, 6 Mode: 2
	Inp1: 2, 3, 1, 2 Inp2: 2, 1, 3, 2 Mode: 2
	Inp1: 1, 3, 1, 2 Inp2: 2, 1, 3, 1 Mode: 2
	Inp1: 4, 6, 1, 2, 1

Kernel name	Parameters
	Inp2: 1, 6, 1, 1, 2 Mode: 2
	Inp1: 2, 1, 5, 3, 1 Inp2: 1, 1, 1, 1, 2 Mode: 2
	Inp1: 1, 1, 1, 1, 1 Inp2: 2, 3, 4, 5, 1 Mode: 2
	Inp1: 6, 7, 8, 2, 2 Inp2: 1, 1, 1, 1, 1 Mode: 2
	Inp1: 2, 2, 3, 1 Inp2: 2, 2, 3, 2 Mode: 2
	Inp1: 2, 2, 1, 1 Inp2: 2, 2, 3, 2 Mode: 2
	Inp1: 2, 2, 1, 2 Inp2: 2, 2, 3, 2 Mode: 2
	Inp1: 1, 2, 3, 2 Inp2: 2, 2, 3, 2 Mode: 2
	Inp1: 2, 2, 2, 1 Inp2: 1, 1, 1, 1 Mode: 2
	Inp1: 2, 2, 1, 1 Inp2: 1, 1, 1, 1 Mode: 2
	Inp1: 2, 1, 1, 1 Inp2: 1, 1, 1, 1 Mode: 2
xa_nn_elm_div_32x32_f32	Inp1: 9, 8, 9, 9
	Inp1: 10, 10, 7, 6
	Inp1: 4, 4, 10, 4, 10
	Inp1: 8, 9, 6, 4
	Inp1: 4, 5, 6
	Inp1: 7, 6, 8, 7, 9
	Inp1: 6, 4, 6, 8
	Inp1: 3, 2
	Inp1: 3, 3, 1, 1
	Inp1: 3, 2, 1, 2
	Inp1: 8, 1, 1, 1
	Inp1: 1, 1, 1
	Inp1: 8, 9
	Inp1: 1, 3, 1, 2
	Inp1: 2, 3, 1, 2, 4

Kernel name	Parameters
	Inp1: 1, 3, 2, 4
	Inp1: 4, 1, 2, 1
xa_nn_elm_div_scalar_32x32_f32	Inp1: 4, 1, 2, 1
	Inp1: 7, 11, 4, 9
	Inp1: 8, 11, 8, 11
	Inp1: 11, 11, 9, 4
	Inp1: 4, 6, 7, 11
	Inp1: 6, 7, 5, 6
	Inp1: 3, 2
	Inp1: 3, 3, 1, 1
	Inp1: 3, 2, 1, 2
	Inp1: 8, 1, 1, 1
	Inp1: 1, 1, 1
	Inp1: 8, 9
	Inp1: 1, 3, 1, 2
	Inp1: 2, 3, 1, 2, 4
	Inp1: 1, 3, 2, 4
	Inp1: 8, 7, 9, 6, 5
xa_nn_elm_div_broadcast_5D_32x32_f32	Inp1: 15, 10, 5, 30, 18 Inp2: 15, 1, 5, 30, 18
	Inp1: 87, 9, 15, 5 Inp2: 87, 9, 1, 1
	Inp1: 1, 1, 1, 1 Inp2: 3, 12, 34, 8
	Inp1: 92, 13, 1, 4, 2 Inp2: 92, 13, 4, 1, 2
	Inp1: 1, 1, 38, 45 Inp2: 1, 1, 38, 1
	Inp1: 1, 98, 1, 5, 48 Inp2: 1, 1, 2, 1, 1
	Inp1: 66, 1, 6, 3 Inp2: 1, 55, 6, 3
	Inp1: 87, 9, 1, 1 Inp2: 87, 9, 15, 5
	Inp1: 3, 12, 34, 8 Inp2: 1, 1, 1, 1
	Inp1: 92, 13, 4, 1, 2 Inp2: 92, 13, 1, 4, 2
	Inp1: 1, 1, 38, 1 Inp2: 1, 1, 38, 45
	Inp1: 4, 8, 2, 1 Inp2: 4, 8, 1, 2

Kernel name	Parameters
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1
	Inp1: 1, 2 Inp2: 2, 1
	Inp1: 2, 1, 1 Inp2: 1, 2, 2
	Inp1: 6, 1, 1 Inp2: 1, 1, 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 1, 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 3, 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 1, 3, 2
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 3, 2
	Inp1: 2, 2, 3, 1 Inp2: 2, 2, 3, 1
	Inp1: 2, 2, 1, 1 Inp2: 2, 2, 1, 1
	Inp1: 2, 1, 1, 1 Inp2: 2, 1, 1, 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 1, 2
	Inp1: 2, 2, 3, 2 Inp2: 1, 2, 3, 2
	Inp1: 2, 2, 1, 2 Inp2: 2, 2, 3, 1
	Inp1: 2, 3, 3, 1 Inp2: 2, 3, 1, 2
	Inp1: 2, 1, 3, 2 Inp2: 2, 3, 3, 1
	Inp1: 2, 3, 3, 1 Inp2: 2, 1, 3, 2
	Inp1: 2, 1, 3, 2 Inp2: 2, 3, 1, 2
	Inp1: 5, 1 Inp2: 1, 6
	Inp1: 2, 3, 1, 2 Inp2: 2, 1, 3, 2
	Inp1: 1, 3, 1, 2 Inp2: 2, 1, 3, 1
	Inp1: 4, 6, 1, 2, 1 Inp2: 1, 6, 1, 1, 2
	Inp1: 2, 1, 5, 3, 1 Inp2: 1, 1, 1, 1, 2
	Inp1: 1, 1, 1, 1, 1 Inp2: 2, 3, 4, 5, 1
	Inp1: 6, 7, 8, 2, 2 Inp2: 1, 1, 1, 1, 1
	Inp1: 2, 2, 3, 1 Inp2: 2, 2, 3, 2

Kernel name	Parameters
	Inp1: 2, 2, 1, 1 Inp2: 2, 2, 3, 2
	Inp1: 2, 2, 1, 2 Inp2: 2, 2, 3, 2
	Inp1: 1, 2, 3, 2 Inp2: 2, 2, 3, 2
	Inp1: 2, 2, 2, 1 Inp2: 1, 1, 1, 1
	Inp1: 2, 2, 1, 1 Inp2: 1, 1, 1, 1
	Inp1: 2, 1, 1, 1 Inp2: 1, 1, 1, 1
xa_nn_elm_div_f32xf32_f32	Inp1: 7, 10, 11, 4, 9 Mode: 1
	Inp1: 7, 5, 4, 4 Mode: 1
	Inp1: 7, 9, 6, 10 Mode: 1
	Inp1: 10, 11, 11, 11 Mode: 2
	Inp1: 4, 6, 8, 6, 9 Mode: 0
	Inp1: 9, 8, 11, 9 Mode: 0
	Inp1: 4, 9, 11, 6, 11 Mode: 0
	Inp1: 3, 2 Mode: 2
	Inp1: 3, 3, 1, 1 Mode: 2
	Inp1: 3, 2, 1, 2 Mode: 2
	Inp1: 8, 1, 1, 1 Mode: 2
	Inp1: 1, 1, 1 Mode: 2
	Inp1: 8, 9 Mode: 2
	Inp1: 1, 3, 1, 2 Mode: 2
	Inp1: 2, 3, 1, 2, 4 Mode: 2
	Inp1: 1, 3, 2, 4 Mode: 2
	Inp1: 4, 1, 2, 1 Mode: 2
	Inp1: 3, 2 Mode: 1

Kernel name	Parameters
	Inp1: 3, 3, 1, 1 Mode: 1
	Inp1: 3, 2, 1, 2 Mode: 1
	Inp1: 8, 1, 1, 1 Mode: 1
	Inp1: 1, 1, 1 Mode: 1
	Inp1: 8, 9 Mode: 1
	Inp1: 1, 3, 1, 2 Mode: 1
	Inp1: 2, 3, 1, 2, 4 Mode: 1
	Inp1: 1, 3, 2, 4 Mode: 1
	Inp1: 4, 1, 2, 1 Mode: 1
	Inp1: 3, 2 Mode: 0
	Inp1: 3, 3, 1, 1 Mode: 0
	Inp1: 3, 2, 1, 2 Mode: 0
	Inp1: 8, 1, 1, 1 Mode: 0
	Inp1: 1, 1, 1 Mode: 0
	Inp1: 8, 9 Mode: 0
	Inp1: 1, 3, 1, 2 Mode: 0
	Inp1: 2, 3, 1, 2, 4 Mode: 0
	Inp1: 1, 3, 2, 4 Mode: 0
	Inp1: 4, 1, 2, 1 Mode: 0
xa_nn_elm_div_scalar_f32xf32_f32	Inp1: 5, 11, 4, 7, 4 Mode: 1
	Inp1: 5, 10, 11, 10, 11 Mode: 2
	Inp1: 7, 5, 5, 10, 10 Mode: 1
	Inp1: 11, 11, 9, 4 Mode: 2
	Inp1: 11, 6, 10, 11 Mode: 1
	Inp1: 8, 4, 7, 6

Kernel name	Parameters
	Mode: 2
	Inp1: 8, 7, 9, 6, 5 Mode: 1
	Inp1: 3, 2 Mode: 2
	Inp1: 3, 3, 1, 1 Mode: 2
	Inp1: 3, 2, 1, 2 Mode: 2
	Inp1: 8, 1, 1, 1 Mode: 2
	Inp1: 1, 1, 1 Mode: 2
	Inp1: 8, 9 Mode: 2
	Inp1: 1, 3, 1, 2 Mode: 2
	Inp1: 2, 3, 1, 2, 4 Mode: 2
	Inp1: 1, 3, 2, 4 Mode: 2
	Inp1: 4, 1, 2, 1 Mode: 2
	Inp1: 3, 2 Mode: 1
	Inp1: 3, 3, 1, 1 Mode: 1
	Inp1: 3, 2, 1, 2 Mode: 1
	Inp1: 8, 1, 1, 1 Mode: 1
	Inp1: 1, 1, 1 Mode: 1
	Inp1: 8, 9 Mode: 1
	Inp1: 1, 3, 1, 2 Mode: 1
	Inp1: 2, 3, 1, 2, 4 Mode: 1
	Inp1: 1, 3, 2, 4 Mode: 1
	Inp1: 4, 1, 2, 1 Mode: 1
	Inp1: 3, 2 Mode: 0
	Inp1: 3, 3, 1, 1 Mode: 0
	Inp1: 3, 2, 1, 2 Mode: 0

Kernel name	Parameters
	Inp1: 8, 1, 1, 1 Mode: 0
	Inp1: 1, 1, 1 Mode: 0
	Inp1: 8, 9 Mode: 0
	Inp1: 1, 3, 1, 2 Mode: 0
	Inp1: 2, 3, 1, 2, 4 Mode: 0
	Inp1: 1, 3, 2, 4 Mode: 0
	Inp1: 4, 1, 2, 1 Mode: 0
xa_nn_elm_div_broadcast_5D_f32xf32_f32	Inp1: 15, 10, 5, 30, 18 Inp2: 15, 1, 5, 30, 18 Mode: 1
	Inp1: 87, 9, 15, 5 Inp2: 87, 9, 1, 1 Mode: 1
	Inp1: 1, 1, 1, 1 Inp2: 3, 12, 34, 8 Mode: 1
	Inp1: 92, 13, 1, 4, 2 Inp2: 92, 13, 4, 1, 2 Mode: 1
	Inp1: 1, 1, 38, 45 Inp2: 1, 1, 38, 1 Mode: 1
	Inp1: 1, 98, 1, 5, 48 Inp2: 1, 1, 2, 1, 1 Mode: 1
	Inp1: 66, 1, 6, 3 Inp2: 1, 55, 6, 3 Mode: 1
	Inp1: 87, 9, 1, 1 Inp2: 87, 9, 15, 5 Mode: 1
	Inp1: 3, 12, 34, 8 Inp2: 1, 1, 1, 1 Mode:1
	Inp1: 92, 13, 4, 1, 2 Inp2: 92, 13, 1, 4, 2 Mode: 1
	Inp1: 1, 1, 38, 1 Inp2: 1, 1, 38, 45 Mode: 1

Kernel name	Parameters
	Inp1: 4, 8, 2, 1 Inp2: 4, 8, 1, 2 Mode: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1 Mode: 1
	Inp1: 1, 2 Inp2: 2, 1 Mode: 1
	Inp1: 2, 1, 1 Inp2: 1, 2, 2 Mode: 1
	Inp1: 6, 1, 1 Inp2: 1, 1, 1 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 1, 1 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 3, 1 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 1, 3, 2 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 3, 2 Mode: 1
	Inp1: 2, 2, 3, 1 Inp2: 2, 2, 3, 1 Mode: 1
	Inp1: 2, 2, 1, 1 Inp2: 2, 2, 1, 1 Mode: 1
	Inp1: 2, 1, 1, 1 Inp2: 2, 1, 1, 1 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 1, 2 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 1, 2, 3, 2 Mode: 1
	Inp1: 2, 2, 1, 2 Inp2: 2, 2, 3, 1 Mode: 1
	Inp1: 2, 3, 3, 1 Inp2: 2, 3, 1, 2 Mode: 1
	Inp1: 2, 1, 3, 2 Inp2: 2, 3, 3, 1 Mode: 1
	Inp1: 2, 3, 3, 1

Kernel name	Parameters
	Inp2: 2, 1, 3, 2 Mode: 1
	Inp1: 2, 1, 3, 2 Inp2: 2, 3, 1, 2 Mode: 1
	Inp1: 5, 1 Inp2: 1, 6 Mode: 1
	Inp1: 2, 3, 1, 2 Inp2: 2, 1, 3, 2 Mode: 1
	Inp1: 1, 3, 1, 2 Inp2: 2, 1, 3, 1 Mode: 1
	Inp1: 4, 6, 1, 2, 1 Inp2: 1, 6, 1, 1, 2 Mode: 1
	Inp1: 2, 1, 5, 3, 1 Inp2: 1, 1, 1, 1, 2 Mode: 1
	Inp1: 1, 1, 1, 1, 1 Inp2: 2, 3, 4, 5, 1 Mode: 1
	Inp1: 6, 7, 8, 2, 2 Inp2: 1, 1, 1, 1, 1 Mode: 1
	Inp1: 2, 2, 3, 1 Inp2: 2, 2, 3, 2 Mode: 1
	Inp1: 2, 2, 1, 1 Inp2: 2, 2, 3, 2 Mode: 1
	Inp1: 2, 2, 1, 2 Inp2: 2, 2, 3, 2 Mode: 1
	Inp1: 1, 2, 3, 2 Inp2: 2, 2, 3, 2 Mode: 1
	Inp1: 2, 2, 2, 1 Inp2: 1, 1, 1, 1 Mode: 1
	Inp1: 2, 2, 1, 1 Inp2: 1, 1, 1, 1 Mode: 1
	Inp1: 2, 1, 1, 1 Inp2: 1, 1, 1, 1 Mode: 1
	Inp1: 15, 10, 5, 30, 18 Inp2: 15, 1, 5, 30, 18 Mode: 2
	Inp1: 87, 9, 15, 5

Kernel name	Parameters
	Inp2: 87, 9, 1, 1 Mode: 2
	Inp1: 1, 1, 1, 1 Inp2: 3, 12, 34, 8 Mode: 2
	Inp1: 92, 13, 1, 4, 2 Inp2: 92, 13, 4, 1, 2 Mode: 2
	Inp1: 1, 1, 38, 45 Inp2: 1, 1, 38, 1 Mode: 2
	Inp1: 1, 98, 1, 5, 48 Inp2: 1, 1, 2, 1, 1 Mode: 2
	Inp1: 66, 1, 6, 3 Inp2: 1, 55, 6, 3 Mode: 2
	Inp1: 87, 9, 1, 1 Inp2: 87, 9, 15, 5 Mode: 2
	Inp1: 3, 12, 34, 8 Inp2: 1, 1, 1, 1 Mode:1
	Inp1: 92, 13, 4, 1, 2 Inp2: 92, 13, 1, 4, 2 Mode: 2
	Inp1: 1, 1, 38, 1 Inp2: 1, 1, 38, 45 Mode: 2
	Inp1: 4, 8, 2, 1 Inp2: 4, 8, 1, 2 Mode: 2
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1 Mode: 2
	Inp1: 1, 2 Inp2: 2, 1 Mode: 2
	Inp1: 2, 1, 1 Inp2: 1, 2, 2 Mode: 2
	Inp1: 6, 1, 1 Inp2: 1, 1, 1 Mode: 2
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 1, 1 Mode: 2
	Inp1: 2, 2, 3, 2

Kernel name	Parameters
	Inp2: 2, 2, 3, 1 Mode: 2
	Inp1: 2, 2, 3, 2 Inp2: 2, 1, 3, 2 Mode: 2
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 3, 2 Mode: 2
	Inp1: 2, 2, 3, 1 Inp2: 2, 2, 3, 1 Mode: 2
	Inp1: 2, 2, 1, 1 Inp2: 2, 2, 1, 1 Mode: 2
	Inp1: 2, 1, 1, 1 Inp2: 2, 1, 1, 1 Mode: 2
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 1, 2 Mode: 2
	Inp1: 2, 2, 3, 2 Inp2: 1, 2, 3, 2 Mode: 2
	Inp1: 2, 2, 1, 2 Inp2: 2, 2, 3, 1 Mode: 2
	Inp1: 2, 3, 3, 1 Inp2: 2, 3, 1, 2 Mode: 2
	Inp1: 2, 1, 3, 2 Inp2: 2, 3, 3, 1 Mode: 2
	Inp1: 2, 3, 3, 1 Inp2: 2, 1, 3, 2 Mode: 2
	Inp1: 2, 1, 3, 2 Inp2: 2, 3, 1, 2 Mode: 2
	Inp1: 5, 1 Inp2: 1, 6 Mode: 2
	Inp1: 2, 3, 1, 2 Inp2: 2, 1, 3, 2 Mode: 2
	Inp1: 1, 3, 1, 2 Inp2: 2, 1, 3, 1 Mode: 2
	Inp1: 4, 6, 1, 2, 1 Inp2: 1, 6, 1, 1, 2 Mode: 2
	Inp1: 2, 1, 5, 3, 1

Kernel name	Parameters
	Inp2: 1, 1, 1, 1, 2 Mode: 2
	Inp1: 1, 1, 1, 1, 1 Inp2: 2, 3, 4, 5, 1 Mode: 2
	Inp1: 6, 7, 8, 2, 2 Inp2: 1, 1, 1, 1, 1 Mode: 2
	Inp1: 2, 2, 3, 1 Inp2: 2, 2, 3, 2 Mode: 2
	Inp1: 2, 2, 1, 1 Inp2: 2, 2, 3, 2 Mode: 2
	Inp1: 2, 2, 1, 2 Inp2: 2, 2, 3, 2 Mode: 2
	Inp1: 1, 2, 3, 2 Inp2: 2, 2, 3, 2 Mode: 2
	Inp1: 2, 2, 2, 1 Inp2: 1, 1, 1, 1 Mode: 2
	Inp1: 2, 2, 1, 1 Inp2: 1, 1, 1, 1 Mode: 2
	Inp1: 2, 1, 1, 1 Inp2: 1, 1, 1, 1 Mode: 2
	Inp1: 15, 10, 5, 30, 18 Inp2: 15, 1, 5, 30, 18 Mode: 1
	Inp1: 87, 9, 15, 5 Inp2: 87, 9, 1, 1 Mode: 1
	Inp1: 1, 1, 1, 1 Inp2: 3, 12, 34, 8 Mode: 1
	Inp1: 92, 13, 1, 4, 2 Inp2: 92, 13, 4, 1, 2 Mode: 1
	Inp1: 1, 1, 38, 45 Inp2: 1, 1, 38, 1 Mode: 1
	Inp1: 1, 98, 1, 5, 48 Inp2: 1, 1, 2, 1, 1 Mode: 1
	Inp1: 66, 1, 6, 3 Inp2: 1, 55, 6, 3 Mode: 1

Kernel name	Parameters
	Inp1: 87, 9, 1, 1 Inp2: 87, 9, 15, 5 Mode: 1
	Inp1: 3, 12, 34, 8 Inp2: 1, 1, 1, 1 Mode:1
	Inp1: 92, 13, 4, 1, 2 Inp2: 92, 13, 1, 4, 2 Mode: 1
	Inp1: 1, 1, 38, 1 Inp2: 1, 1, 38, 45 Mode: 1
	Inp1: 4, 8, 2, 1 Inp2: 4, 8, 1, 2 Mode: 1
	Inp1: 1, 1, 1, 1 Inp2: 1, 1, 1 Mode: 1
	Inp1: 1, 2 Inp2: 2, 1 Mode: 1
	Inp1: 2, 1, 1 Inp2: 1, 2, 2 Mode: 1
	Inp1: 6, 1, 1 Inp2: 1, 1, 1 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 1, 1 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 3, 1 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 1, 3, 2 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 3, 2 Mode: 1
	Inp1: 2, 2, 3, 1 Inp2: 2, 2, 3, 1 Mode: 1
	Inp1: 2, 2, 1, 1 Inp2: 2, 2, 1, 1 Mode: 1
	Inp1: 2, 1, 1, 1 Inp2: 2, 1, 1, 1 Mode: 1
	Inp1: 2, 2, 3, 2 Inp2: 2, 2, 1, 2 Mode: 1

Kernel name	Parameters
	Inp1: 2, 2, 3, 2 Inp2: 1, 2, 3, 2 Mode: 1
	Inp1: 2, 2, 1, 2 Inp2: 2, 2, 3, 1 Mode: 1
	Inp1: 2, 3, 3, 1 Inp2: 2, 3, 1, 2 Mode: 1
	Inp1: 2, 1, 3, 2 Inp2: 2, 3, 3, 1 Mode: 1
	Inp1: 2, 3, 3, 1 Inp2: 2, 1, 3, 2 Mode: 1
	Inp1: 2, 1, 3, 2 Inp2: 2, 3, 1, 2 Mode: 1
	Inp1: 5, 1 Inp2: 1, 6 Mode: 1
	Inp1: 2, 3, 1, 2 Inp2: 2, 1, 3, 2 Mode: 1
	Inp1: 1, 3, 1, 2 Inp2: 2, 1, 3, 1 Mode: 1
	Inp1: 4, 6, 1, 2, 1 Inp2: 1, 6, 1, 1, 2 Mode: 1
	Inp1: 2, 1, 5, 3, 1 Inp2: 1, 1, 1, 1, 2 Mode: 1
	Inp1: 1, 1, 1, 1, 1 Inp2: 2, 3, 4, 5, 1 Mode: 1
	Inp1: 6, 7, 8, 2, 2 Inp2: 1, 1, 1, 1, 1 Mode: 1
	Inp1: 2, 2, 3, 1 Inp2: 2, 2, 3, 2 Mode: 1
	Inp1: 2, 2, 1, 1 Inp2: 2, 2, 3, 2 Mode: 1
	Inp1: 2, 2, 1, 2 Inp2: 2, 2, 3, 2 Mode: 1
	Inp1: 1, 2, 3, 2 Inp2: 2, 2, 3, 2 Mode: 1
	Inp1: 2, 2, 2, 1

Kernel name	Parameters
	Inp2: 1, 1, 1, 1 Mode: 1
	Inp1: 2, 2, 1, 1 Inp2: 1, 1, 1, 1 Mode: 1
	Inp1: 2, 1, 1, 1 Inp2: 1, 1, 1, 1 Mode: 1
xa_nn_permute – Signed 8-bit	permute_vec: 1, 0, 2, 3 Inp1: 6, 2, 4, 5
	permute_vec: 1, 0, 2 Inp1: 6, 14, 4
	permute_vec: 0, 1, 3, 2 Inp1: 9, 2, 4, 10
	permute_vec: 2, 1, 0 Inp1: 5, 4, 9
	permute_vec: 1, 0, 3, 2 Inp1: 8, 7, 6, 3
	permute_vec: 2, 0, 1 Inp1: 5, 12, 2
	permute_vec: 3, 2, 0, 1 Inp1: 6, 3, 6, 3
	permute_vec: 1, 0, 2 Inp1: 12, 2, 2
	permute_vec: 1, 0 Inp1: 32, 5
	permute_vec: 2, 1, 0 Inp1: 7, 10, 8
	permute_vec: 1, 0, 2 Inp1: 12, 4, 5
	permute_vec: 3, 1, 2, 0 Inp1: 15, 8, 3, 4
	permute_vec: 0, 2, 1, 3 Inp1: 12, 3, 4, 1
	permute_vec: 0, 2, 1, 3 Inp1: 1, 1, 1, 1
	permute_vec: 0, 2, 1, 3 Inp1: 1, 2, 3, 2
	permute_vec: 0, 2, 1, 3 Inp1: 1, 2, 3, 1
	permute_vec: 0, 2, 1, 3 Inp1: 1, 1, 2, 3
	permute_vec: 0, 2, 1, 3 Inp1: 1, 3, 2, 1
xa_nn_permute – Signed 16-bit	permute_vec: 1, 0, 2, 3 Inp1: 4, 9, 7, 5
	permute_vec: 0, 1, 3, 2 Inp1: 1, 14, 2, 7
	permute_vec: 3, 1, 2, 0 Inp1: 5, 5, 4, 8
	permute_vec: 2, 1, 0, 3 Inp1: 1, 15, 11, 6

Kernel name	Parameters
	permute_vec: 0, 2, 1, 3 Inp1: 2, 7, 15, 7
	permute_vec: 0, 3, 2, 1 Inp1: 3, 7, 13, 2
	permute_vec: 1, 0, 2 Inp1: 6, 6, 13
	permute_vec: 0, 2, 1 Inp1: 15, 9, 4
	permute_vec: 2, 1, 0 Inp1: 7, 8, 9
	permute_vec: 1, 0, 2 Inp1: 11, 11, 4
	permute_vec: 0, 2, 1 Inp1: 12, 3, 9
	permute_vec: 1, 0, 2, 3 Inp1: 12, 6, 4, 5
	permute_vec: 0, 2, 1, 3 Inp1: 1, 1, 1, 1
	permute_vec: 0, 2, 1, 3 Inp1: 1, 2, 3, 2
	permute_vec: 0, 2, 1, 3 Inp1: 1, 2, 3, 1
	permute_vec: 0, 2, 1, 3 Inp1: 1, 1, 2, 3
	permute_vec: 0, 2, 1, 3 Inp1: 1, 3, 2, 1
xa_nn_permute – Signed 32-bit	permute_vec: 1, 0, 2, 3 Inp1: 9, 4, 5, 2
	permute_vec: 0, 1, 3, 2 Inp1: 6, 5, 4, 3
	permute_vec: 3, 1, 2, 0 Inp1: 6, 3, 5, 7
	permute_vec: 1, 0, 2 Inp1: 6, 12, 5
	permute_vec: 2, 1, 0, 3 Inp1: 7, 8, 3, 2
	permute_vec: 0, 1, 3, 2 Inp1: 5, 12, 66, 1
	permute_vec: 0, 3, 2, 1 Inp1: 6, 14, 3, 2
	permute_vec: 1, 0, 2 Inp1: 5, 7, 12
	permute_vec: 1, 0, 2, 3 Inp1: 8, 3, 4, 6
	permute_vec: 1, 0, 2 Inp1: 8, 7, 7
	permute_vec: 2, 1, 0, 3 Inp1: 4, 6, 5, 3
	permute_vec: 2, 1, 0, 3 Inp1: 6, 7, 8, 2
	permute_vec: 0, 2, 1, 3 Inp1: 1, 1, 1, 1

Kernel name	Parameters
	permute_vec: 0, 2, 1, 3 Inp1: 1, 2, 3, 2
	permute_vec: 0, 2, 1, 3 Inp1: 1, 2, 3, 1
	permute_vec: 0, 2, 1, 3 Inp1: 1, 1, 2, 3
	permute_vec: 0, 2, 1, 3 Inp1: 1, 3, 2, 1
xa_nn_permute – Unsigned 8-bit	permute_vec: 2, 1, 3, 0 Inp1: 7, 8, 13, 10
	permute_vec: 3, 2, 1, 4, 0 Inp1: 21, 10, 18, 23, 23
	permute_vec: 4, 2, 3, 0, 1 Inp1: 16, 3, 9, 6, 18
	permute_vec: 2, 3, 0, 1, 4 Inp1: 21, 9, 18, 8, 10
	permute_vec: 2, 3, 0, 1 Inp1: 10, 11, 7, 16
	permute_vec: 1, 0, 3, 2 Inp1: 23, 8, 3, 18
	permute_vec: 3, 0, 1, 2 Inp1: 19, 8, 50, 2
	permute_vec: 0, 2, 1, 3 Inp1: 1, 1, 1, 1
	permute_vec: 0, 2, 1, 3 Inp1: 1, 2, 3, 2
	permute_vec: 0, 2, 1, 3 Inp1: 1, 2, 3, 1
	permute_vec: 0, 2, 1, 3 Inp1: 1, 1, 2, 3
	permute_vec: 0, 2, 1, 3 Inp1: 1, 3, 2, 1
xa_nn_permute – Unsigned 16-bit	permute_vec: 3, 2, 1, 0, 4 Inp1: 9, 25, 10, 10, 7
	permute_vec: 2, 0, 1 Inp1: 7, 8, 50
	permute_vec: 2, 3, 1, 0 Inp1: 25, 21, 8, 11
	permute_vec: 1, 4, 3, 0, 2 Inp1: 1, 11, 16, 3, 13
	permute_vec: 1, 2, 0 Inp1: 23, 1, 8
	permute_vec: 3, 0, 1, 2 Inp1: 50, 6, 5, 7
	permute_vec: 1, 0, 2 Inp1: 50, 2, 50
	permute_vec: 0, 2, 1, 3 Inp1: 1, 1, 1, 1
	permute_vec: 0, 2, 1, 3 Inp1: 1, 2, 3, 2
	permute_vec: 0, 2, 1, 3 Inp1: 1, 2, 3, 1

Kernel name	Parameters
	permute_vec: 0, 2, 1, 3 Inp1: 1, 1, 2, 3
	permute_vec: 0, 2, 1, 3 Inp1: 1, 3, 2, 1
xa_nn_permute – Unsigned 32-bit	permute_vec: 1, 3, 0, 4, 2 Inp1: 16, 18, 18, 7, 3
	permute_vec: 2, 0, 1 Inp1: 5, 11, 16
	permute_vec: 2, 3, 0, 1 Inp1: 11, 21, 13, 23
	permute_vec: 1, 0, 3, 2 Inp1: 50, 7, 2, 1
	permute_vec: 4, 3, 2, 1, 0 Inp1: 25, 5, 3, 23, 9
	permute_vec: 2, 1, 0, 4, 3 Inp1: 13, 8, 18, 21, 50
	permute_vec: 0, 3, 4, 1, 2 Inp1: 1, 2, 2, 18, 6
	permute_vec: 0, 2, 1, 3 Inp1: 1, 1, 1, 1
	permute_vec: 0, 2, 1, 3 Inp1: 1, 2, 3, 2
	permute_vec: 0, 2, 1, 3 Inp1: 1, 2, 3, 1
	permute_vec: 0, 2, 1, 3 Inp1: 1, 1, 2, 3
	permute_vec: 0, 2, 1, 3 Inp1: 1, 3, 2, 1
xa_nn_elm_exp_f32_f32	Inp1: 3, 5, 3, 6
	Inp1: 7, 7, 4
	Inp1: 10, 4, 9, 3, 4
	Inp1: 10, 3, 6
	Inp1: 1, 4, 9, 7
	Inp1: 5, 7, 9, 7, 9
	Inp1: 1, 1, 4, 9
xa_nn_mean_f32_f32	Axis=0 Inp: 23, 46, 19
	Axis=3 Inp: 23, 17, 8, 2
	Axis=1 Inp: 46, 87, 23
	Axis=1 Inp: 9, 56, 10, 7
	Axis=1 Inp: 8, 46
	Axis=1

Kernel name	Parameters
	Inp: 13, 9
	Axis=0 Inp: 8, 17
	Axis=0 Inp: 3, 17
	Axis=2 Inp: 46, 3, 56
	Axis=Null Inp: 5, 8
	Axis= Null Inp: 2, 2, 4, 8, 5
	Axis= Null Inp: 5, 4, 5, 4
	Axis= Null Inp: 3, 4, 1, 7, 4
	Axis= Null Inp: 8, 2
	Axis= Null Inp: 4, 1, 3
	Axis=0 Inp: 6, 9, 5, 6, 5
	Axis=0, 1 Inp: 34, 13
	Axis=1, 3, 0 Inp: 8, 56, 9, 10, 10
	Axis=0 Inp: 9, 3
	Axis=1, 0, 3 Inp: 56, 13, 7, 1, 2
	Axis=2, 1 Inp: 8, 46, 7
	Axis=2 Inp: 17 , 17, 9, 56
	Axis=4, 1 Inp: 34, 2, 8, 8, 87
	Axis=0, 1 Inp: 1, 1
	Axis=1, 3, 4, 0 Inp: 9, 34, 1, 46, 19
	Axis=1 Inp: 3, 17

Kernel name	Parameters
	Axis= 3 Inp: 2, 23, 34, 56, 1
	Axis= 4 Inp: 2, 23, 34, 56, 1

2.2.2 API tests

The table below lists values with which arguments of the kernels are tested to see the returned status. “Kernel name” column specifies the kernel name, “Argument name” column specifies the argument which is tested, “Value of the argument” column specifies the values given to argument so that kernel returns error. Each value corresponds to one test case. For ex: xa_nn_elm_add_32x32_32 kernel is tested with 8 test cases to validate error check implementation in the API. In all of the cases mentioned below, kernel returned error.

Kernel name	Argument name	Value of the argument
xa_nn_elm_add_32x32_32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer
	num_elm	Negative Zero
xa_nn_elm_add_scalar_32x32_32	p_inp1	Null Unaligned pointer
	p_out	Null Unaligned pointer
	num_elm	Negative Zero

xa_nn_elm_add_broadcast_5D_32x32_32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer
	num_inp_dims	Negative Zero Out of range
	p_inp1_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	p_inp2_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	p_out_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
xa_nn_elm_mul_32x32_32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer

	p_out	Null Unaligned pointer
	num_elm	Negative Zero
xa_nn_elm_mul_scalar_32x32_32	p_inp1	Null Unaligned pointer
	p_out	Null Unaligned pointer
	num_elm	Negative Zero
xa_nn_elm_mul_broadcast_5D_32x32_32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp1_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	p_inp2_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	p_out_shape	Null Unaligned pointer All zeroes

		One of the shapes zero One of the shapes negative
	num_inp_dims	Negative Zero Out of Range
xa_nn_elm_add_f32xf32_f32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer
	num_elm	Negative Zero
xa_nn_elm_add_scalar_f32xf32_f32	p_inp1	Null Unaligned pointer
	p_out	Null Unaligned pointer
	num_elm	Negative Zero
xa_nn_elm_add_broadcast_5D_f32xf32_f32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp1_shape	Null Unaligned pointer

		All zeroes One of the shapes zero One of the shapes negative
	p_inp2_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	p_out_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	num_inp_dims	Negative Zero Out of Range
xa_nn_elm_mul_f32xf32_f32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer
	num_elm	Negative Zero
xa_nn_elm_mul_scalar_f32xf32_f32	p_inp1	Null Unaligned pointer
	p_out	Null Unaligned pointer
	num_elm	Negative Zero

xa_nn_elm_mul_broadcast_5D_f32xf32_f32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp1_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	p_inp2_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	p_out_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	num_inp_dims	Negative Zero Out of Range
xa_nn_vec_softmax_dim_f32_f32	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All zeroes

		One of the shapes zero One of the shapes negative
	p_axis	Value negative Zero Out of range (> num_inp_dims)
	num_inp_dims	Negative Zero
xa_nn_layernorm_f32_f32	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_mean	Null Unaligned pointer
	p_std	Null Unaligned pointer
	p_weight	Null Unaligned pointer
	p_bias	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	axis	Value is negative Zero Out of range (> num_inp_dims)

Commented [CRM1]: This is a pointer

	num_inp_dims	Negative Zero
	eps	Negative Zero
xa_nn_cat	pp_inps	One of the inputs is null Unaligned pointer
	p_out	Null Unaligned pointer
	p_axis	Value is negative Out of range (> num_inp_dims)
	num_inp_dims	Negative Zero
	num_inp	Negative Zero
	elm_size	Three Zero Negative More than four
	pp_inps_shape	Null Unaligned pointer All zeros One of the shapes is negative One of the shapes is zero Different dimensions at dim other than axis
	p_out_shape	Null Unaligned pointer All zeros

Commented [CRM2]: Check with infinity and nan

Commented [CRM3]: Content of pp_inp should also be checked for NULL and unalignment

		One of the shapes is negative One of the shapes is zero
xa_nn_elm_quantize_f32_asym4	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All zeros One of the shapes is zero One of the shapes is negative
	quant_min	Less than –8
	qunat_max	More than 7
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Value is Infinite Number Value is Zero
	p_out_zero_bias	Null Unaligned pointer Less than –8 More than 7
	p_axis	Value is Negative Out of range (> num_inp_dims)
xa_nn_elm_quantize_f32_asym8	p_inp	Null Unaligned pointer

Commented [CRM4]: What about having 0

	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All zeros One of the shapes is zero One of the shapes is negative
	quant_min	Less than –128
	qunat_max	More than 127
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Value is Infinite Number Value is Zero
	p_out_zero_bias	Null Unaligned pointer Less than –128 More than 127
	p_axis	Value is Negative Out of range (> num_inp_dims)
xa_nn_elm_quantize_f32_asym16	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All zeros

		One of the shapes is zero One of the shapes is negative
	quant_min	Less than –32768
	qunat_max	More than 32767
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Value is Infinite Number Value is Zero
	p_out_zero_bias	Null Unaligned pointer Less than –32768 More than 32767
	p_axis	Value is Negative Out of range (> num_inp_dims)
xa_nn_elm_quantize_f32_asym4u	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All zeros One of the shapes is zero One of the shapes is negative
	quant_min	Less than 0
	qunat_max	More than 15

	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Value is Infinite Number Value is Zero
	p_out_zero_bias	Null Unaligned pointer Less than 0 More than 15
	p_axis	Value is negative Out of range (> num_inp_dims)
xa_nn_elm_quantize_f32_asym8u	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All zeros One of the shapes is zero One of the shapes is negative
	quant_min	Less than 0
	qunat_max	More than 255
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Value is Infinite Number Value is Zero

	p_out_zero_bias	Null Unaligned pointer Less than 0 More than 255
	p_axis	Value is negative Out of range (> num_inp_dims)
xa_nn_elm_quantize_f32_asym16u	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All zeros One of the shapes is zero One of the shapes is negative
	quant_min	Less than 0
	qunat_max	More than 65535
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Infinite Number Zero
	p_out_zero_bias	Null Unaligned pointer Less than 0 More than 65535
	p_axis	Negative Out of range (> num_inp_dims)

xa_nn_elm_quantize_f32_sym4	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All zeros One of the shapes is zero One of the shapes is negative
	quant_min	Less than –8
	qunat_max	More than 7
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Infinite Number Zero
	p_axis	Negative Out of range (> num_inp_dims)
xa_nn_elm_quantize_f32_sym8	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All zeros One of the shapes is zero One of the shapes is negative

	quant_min	Less than –128
	qunat_max	More than 127
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Infinite Number Zero
	p_axis	Value negative Out of range (> num_inp_dims)
xa_nn_elm_quantize_f32_sym16	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All zeros One of the shapes is zero One of the shapes is negative
	quant_min	Less than –32768
	qunat_max	More than 32767
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Infinite Number Zero

	p_axis	Value is negative Out of range (> num_inp_dims)
xa_nn_elm_quantize_f32_sym4u	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All zeros One of the shapes is zero One of the shapes is negative
	quant_min	Less than 0
	qunat_max	More than 15
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Infinite Number
	p_axis	Negative Out of range (> num_inp_dims)
xa_nn_elm_quantize_f32_sym8u	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All zeros

		One of the shapes is zero One of the shapes is negative
	quant_min	Less than 0
	qunat_max	More than 255
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Infinite Number
	p_axis	Negative Out of range (> num_inp_dims)
xa_nn_elm_quantize_f32_sym16u	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All zeros One of the shapes is zero One of the shapes is negative
	quant_min	Less than 0
	qunat_max	More than 65535
	num_inp_dims	Negative Zero

	p_out_scale	Null Unaligned pointer Infinite Number
	p_axis	Negative Out of range (> num_inp_dims)
xa_nn_elm_dequantize_f32_asym4	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All Zeros One of the shapes is Zero One of the shapes is negative
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Value is Infinite Number
	p_inp_zero_bias	Null Unaligned pointer Less than –8 More than 7
	p_axis	Negative Out of range (> num_inp_dims)
xa_nn_elm_dequantize_f32_asym8	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer

	p_inp_shape	Null Unaligned pointer All Zeros One of the shapes is Zero One of the shapes is negative
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Value is Infinite Number
	p_inp_zero_bias	Null Unaligned pointer Less than –128 More than 127
	p_axis	Negative Out of range (> num_inp_dims)
xa_nn_elm_dequantize_f32_asym16	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All Zeros One of the shapes is Zero One of the shapes is negative
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Value is Infinite Number

	p_inp_zero_bias	Null Unaligned pointer Less than –32768 More than 32767
	p_axis	Negative Out of range (> num_inp_dims)
xa_nn_elm_dequantize_f32_asym4u	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All Zeros One of the shapes is Zero One of the shapes is negative
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Value is Infinite Number
	p_inp_zero_bias	Null Unaligned pointer Less than 0 More than 15
	p_axis	Negative Out of range (> num_inp_dims)
xa_nn_elm_dequantize_f32_asym8u	p_inp	Null Unaligned pointer

	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All Zeros One of the shapes is Zero One of the shapes is negative
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Value is infinite Number
	p_inp_zero_bias	Null Unaligned pointer Less than 0 More than 255
	p_axis	Negative Out of range (> num_inp_dims)
xa_nn_elm_dequantize_f32_asym16u	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All Zeros One of the shapes is Zero One of the shapes is negative
	num_inp_dims	Negative Zero

	p_out_scale	Null Unaligned pointer Value is infinite Number
	p_inp_zero_bias	Null Unaligned pointer Less than 0 More than 65535
	p_axis	Negative Out of range (> num_inp_dims)
xa_nn_elm_dequantize_f32_sym4	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All Zeros One of the shapes is Zero One of the shapes is negative
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Value is infinite Number
	p_axis	Negative Out of range (> num_inp_dims)
xa_nn_elm_dequantize_f32_sym8	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer

	p_inp_shape	Null Unaligned pointer All Zeros One of the shapes is Zero One of the shapes is negative
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Infinite Number
	p_axis	Negative Out of range (> num_inp_dims)
xa_nn_elm_dequantize_f32_sym16	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All Zeros One of the shapes is Zero One of the shapes is negative
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Value is infinite Number
	p_axis	Negative Out of range (> num_inp_dims)

xa_nn_elm_dequantize_f32_sym4u	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All Zeros One of the shapes is Zero One of the shapes is negative
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Infinite Number
	p_axis	Negative Out of range (> num_inp_dims)
xa_nn_elm_dequantize_f32_sym8u	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All Zeros One of the shapes is Zero One of the shapes is negative
	num_inp_dims	Negative Zero

	p_out_scale	Null Unaligned pointer Value is infinite Number
	p_axis	Negative Out of range (> num_inp_dims)
xa_nn_elm_dequantize_f32_sym16u	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp_shape	Null Unaligned pointer All Zeros One of the shapes is Zero One of the shapes is negative
	num_inp_dims	Negative Zero
	p_out_scale	Null Unaligned pointer Value is infinite Number
	p_axis	Value is negative Out of range (> num_inp_dims)
xa_nn_elm_sub_f32xf32_f32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer

	num_elm	Negative Zero
xa_nn_elm_sub_scalar_f32xf32_f32	p_inp1	Null Unaligned pointer
	p_out	Null Unaligned pointer
	num_elm	Negative Zero
xa_nn_elm_sub_broadcast_5D_f32xf32_f32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp1_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	p_inp2_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	p_out_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative

	num_inp_dims	Negative Zero Out of Range
xa_nn_elm_sub_32x32_32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer
	num_elm	Negative Zero
xa_nn_elm_sub_scalar_32x32_32	p_inp1	Null Unaligned pointer
	p_out	Null Unaligned pointer
	num_elm	Negative Zero
xa_nn_elm_sub_broadcast_5D_32x32_32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp1_shape	Null Unaligned pointer All zeroes

		One of the shapes zero One of the shapes negative
	p_inp2_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	p_out_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	num_inp_dims	Negative Zero Out of Range
xa_nn_slice	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_axis	Value is negative Out of range (> num_inp_dims)
	num_inp_dims	Negative Zero
	elm_size	Three Zero Negative More than four
	p_inp_shape	Null Unaligned pointer Zeros

Commented [CRM5]: Slice is a single function. It do not have multiple variants

	p_out_shape	Null Unaligned pointer Zeros
	step	Negative Zero
	start	Negative Greater Than dim_len
	end	Negative Less than Start Greater than Dim_len
xa_nn_elm_div_32x32_32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer
	mode	Greater than 2 Negative
	num_elm	Negative Zero
xa_nn_elm_div_scalar_32x32_32	p_inp1	Null Unaligned pointer
	p_out	Null Unaligned pointer
	mode	Greater than 2 Negative

Commented [CRM6]: Check if this is a valid test

Commented [CRM7]: Can it be more than dim length?

	num_elm	Negative Zero
xa_nn_elm_div_broadcast_5D_32x32_32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp1_shape	Null Unaligned pointer All zeros One of the shapes is zero One of the shapes negative
	p_inp2_shape	Null Unaligned pointer All zeros One of the shapes is zero One of the shapes negative
	p_out_shape	Null Unaligned pointer All zeros One of the shapes is zero One of the shapes negative
	mode	Greater than 2 Negative
	num_inp_dims	Negative Zero Out of range (> 5)
xa_nn_elm_div_32x32_f32	p_inp1	Null Unaligned pointer

	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer
	num_elm	Negative Zero
xa_nn_elm_div_scalar_32x32_f32	p_inp1	Null Unaligned pointer
	p_out	Null Unaligned pointer
	num_elm	Negative Zero
xa_nn_elm_div_broadcast_5D_32x32_f32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp1_shape	Null Unaligned pointer All zeros One of the shapes is zero One of the shapes negative
	p_inp2_shape	Null Unaligned pointer All zeros One of the shapes is zero One of the shapes negative

	p_out_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	num_inp_dims	Negative Zero Out of range (> 5)
xa_nn_elm_div_f32xf32_f32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer
	mode	Greater than 2 Negative
	num_elm	Negative Zero
xa_nn_elm_div_scalar_f32xf32_f32	p_inp1	Null Unaligned pointer
	p_out	Null Unaligned pointer
	mode	Greater than 2 Negative
	num_elm	Negative Zero

xa_nn_elm_div_broadcast_5D_f32xf32_f32	p_inp1	Null Unaligned pointer
	p_inp2	Null Unaligned pointer
	p_out	Null Unaligned pointer
	p_inp1_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	p_inp2_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	p_out_shape	Null Unaligned pointer All zeroes One of the shapes zero One of the shapes negative
	mode	Greater than 2 Negative
	num_inp_dims	Negative Zero Out of range (> 5)
xa_nn_permute	p_inp	Null Unaligned pointer
	p_out	Null Unaligned pointer

	p_inp_shape	Null Unaligned pointer All zeroes One of the shapes is zero One of the shapes is negative
	p_out_shape	Null Unaligned pointer All zeroes One of the shapes is zero One of the shapes is negative
	p_permute_vec	Null Unaligned pointer All zeroes One of the dims is zero One of the dims is negative
	num_inp_dims	Negative Zero Out of range
	elm_size	Negative Zero Out of range
xa_nn_elm_exp_f32_f32	p_inp	Null Unaligned Pointer
	p_out	Null Unaligned pointer
	num_elm	Negative Zero
xa_nn_mean_f32_f32	p_inp	Null Unaligned Pointer
	p_out	Null Unaligned Pointer

	p_scratch	Null Unaligned Pointer
	p_axis	Null Unaligned Pointer All Zeroes One of the dims as negative
	p_inp_shape	Null Unaligned Pointer All zeroes One of shape is zero One of shape is Negative
	p_out_shape	Null Unaligned Pointer All zeroes One of shape is zero One of shape is Negative
	num_inp_dims	Negative Zero Out of range
	num_out_dims	Negative Zero Out of range
	num_axis_dims	Negative Zero Out of range

3. References

[1] FusionG3-NNLib-API.pdf