## Pre-test instructions

After referring to the installation documentation, you can directly perform the test. The specific tests are all performed in the build directory. The system-related information has not changed and is consistent with the information provided in the installation documentation.

## Test case presentation

The test results shown below are all test results under RISC-V. For the results corresponding to ARM, please refer to the table section in the test document

All examples are divided into three parts: benchmark, expr\_benchmark, and test.

### Benchmark test

The benchmark test uses the build/benchmark.out file and requires a folder as a parameter, so each mnn file needs to be moved to the folder for separate testing. This process is not shown below. For details, please refer to the script file benchmark.sh

1. Test case 1: MobileNetV2\_224

Execute the test command:

./benchmark.out test\_benchmark/ 10 0 0

Test results:

MNN benchmarkForward type: CPU thread=4 precision=2 sparsity=0 sparseBlockOC=1 testQuantizedModel=0--------> Benchmarking... loop = 10, warmup = 0[-INFO-]: precision=2, use fp16 inference if your device supports and open MNN\_ARM82=ON.The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0[-] MobileNetV2\_224.mnn max = 98.113 ms min = 92.626 ms avg = 93.788 ms

1. Test case 2: SqueezeNetV1.0

Execute the test command:

./benchmark.out test\_benchmark/ 10 0 0

Test results:

MNN benchmarkForward type: CPU thread=4 precision=2 sparsity=0 sparseBlockOC=1 testQuantizedModel=0--------> Benchmarking... loop = 10, warmup = 0[-INFO-]: precision=2, use fp16 inference if your device supports and open MNN\_ARM82=ON.The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0[-] SqueezeNetV1.0.mnn max = 169.089 ms min = 140.577 ms avg = 151.963 ms

1. Test case 3: inception-v3

Execute the test command:

./benchmark.out test\_benchmark/ 10 0 0

Test results:

MNN benchmarkForward type: CPU thread=4 precision=2 sparsity=0 sparseBlockOC=1 testQuantizedModel=0--------> Benchmarking... loop = 10, warmup = 0[-INFO-]: precision=2, use fp16 inference if your device supports and open MNN\_ARM82=ON.The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0[-] inception-v3.mnn max = 1783.350 ms min = 1632.214 ms avg = 1705.565 ms

1. Test case 4: mobilenet-v1-1.0

Execute the test command:

./benchmark.out test\_benchmark/ 10 0 0

Test results:

MNN benchmarkForward type: CPU thread=4 precision=2 sparsity=0 sparseBlockOC=1 testQuantizedModel=0--------> Benchmarking... loop = 10, warmup = 0[-INFO-]: precision=2, use fp16 inference if your device supports and open MNN\_ARM82=ON.The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0[-] mobilenet-v1-1.0.mnn max = 231.076 ms min = 155.046 ms avg = 173.952 ms

1. Test case 5: mobilenetV3

Execute the test command:

./benchmark.out test\_benchmark/ 10 0 0

Test results:

MNN benchmarkForward type: CPU thread=4 precision=2 sparsity=0 sparseBlockOC=1 testQuantizedModel=0--------> Benchmarking... loop = 10, warmup = 0[-INFO-]: precision=2, use fp16 inference if your device supports and open MNN\_ARM82=ON.The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0[-] mobilenetV3.mnn max = 26.101 ms min = 19.489 ms avg = 20.262 ms

1. Test case 6: nasnet

Execute the test command:

./benchmark.out test\_benchmark/ 10 0 0

Test results:

MNN benchmarkForward type: CPU thread=4 precision=2 sparsity=0 sparseBlockOC=1 testQuantizedModel=0--------> Benchmarking... loop = 10, warmup = 0[-INFO-]: precision=2, use fp16 inference if your device supports and open MNN\_ARM82=ON.The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0[ - ] nasnet.mnn max = 258.318 ms min = 172.086 ms avg = 189.938 ms

1. Test case 7: resnet-v2-50

Execute the test command:

./benchmark.out test\_benchmark/ 10 0 0

Test results:

MNN benchmarkForward type: CPU thread=4 precision=2 sparsity=0 sparseBlockOC=1 testQuantizedModel=0--------> Benchmarking... loop = 10, warmup = 0[-INFO-]: precision=2, use fp16 inference if your device supports and open MNN\_ARM82=ON.The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0[-] resnet-v2-50.mnn max = 743.736 ms min = 667.883 ms avg = 689.773 ms

1. Test case 8: squeezenetv1.1

Execute the test command:

./benchmark.out test\_benchmark/ 10 0 0

Test results:

MNN benchmarkForward type: CPU thread=4 precision=2 sparsity=0 sparseBlockOC=1 testQuantizedModel=0--------> Benchmarking... loop = 10, warmup = 0[-INFO-]: precision=2, use fp16 inference if your device supports and open MNN\_ARM82=ON.The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0[-] squeezenetv1.1.mnn max = 103.434 ms min = 99.087 ms avg = 99.939 ms

### expr\_benchmark test

The expr\_benchmark test is relatively simple. Just execute the following command

1. Test case 9: ResNet\_100\_18

Execute the test command:

./benchmarkExprModels.out ResNet\_100\_18 10 0 4

Test results:

MNN Expr Models benchmarkForward type: \*\*CPU\*\* thread=4The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0[ - ] ResNet\_100\_18 max = 309.986ms min = 237.569ms avg = 274.224ms

1. Test Case 10: GoogleNet\_100

Execute the test command:

./benchmarkExprModels.out GoogLeNet\_100 10 0 4

Test results:

MNN Expr Models benchmarkForward type: \*\*CPU\*\* thread=4The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0[ - ] GoogLeNet\_100 max = 285.308ms min = 241.668ms avg = 248.639ms

1. Test Case 11: SqueezeNet\_100

Execute the test command:

./benchmarkExprModels.out SqueezeNet\_100 10 0 4

Test results:

MNN Expr Models benchmarkForward type: \*\*CPU\*\* thread=4The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0[ - ] SqueezeNet\_100 max = 138.737ms min = 124.681ms avg = 127.704ms

1. Test case 12: ShuffleNet\_100\_4

Execute the test command:

./benchmarkExprModels.out ShuffleNet\_100\_4 10 0 4

Test results:

MNN Expr Models benchmarkForward type: \*\*CPU\*\* thread=4The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0[ - ] ShuffleNet\_100\_4 max = 58.461ms min = 57.082ms avg = 57.556ms

### test

To test, just execute the following command in the build directory.

1. Test Case 13: AutoStorageTest\_auto\_storage

Execute the test command:

./run\_test.out core/auto\_storage

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running core/auto\_storage.core/auto\_storage cost time: 0.033 ms√√√ all <core/auto\_storage> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 14: BufferAllocatorTest\_buffer\_allocator

Execute the test command:

./run\_test.out core/buffer\_allocator

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running core/buffer\_allocator.BufferAllocator total size : 27 B, 0.000026 MStaticAllocator total size : 0 B, 0.000000 MBufferAllocator total size : 1189085472 B, 1134.000244 MStaticAllocator total size: 0 B, 0.000000 MBufferAllocator total size: 2776896 B, 2.648254 MStaticAllocator total size: 0 B, 0.000000 Mcore/buffer\_allocator cost time: 3.592 ms√√√ all <core/buffer\_allocator> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 15: CallBackTest\_callback

Execute the test command:

./run\_test.out core/callback

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running core/callback.core/callback cost time: 1.809 ms√√√ all <core/callback> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 16: IDSTTest\_idst

Execute the test command:

./run\_test.out core/idst

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running core/idst.core/idst cost time: 0.580 ms√√√ all <core/idst> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 17: MemoryUtilsTest\_memory\_utils

Execute the test command:

./run\_test.out core/memory\_utils

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running core/memory\_utils.core/memory\_utils cost time: 0.043 ms√√√ all <core/memory\_utils> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 18: TensorTest\_tensor

Execute the test command:

./run\_test.out core/tensor

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running core/tensor.running core/tensor\_utils.core/tensor cost time: 0.123 mscore/tensor\_utils cost time: 0.010 ms√√√ all <core/tensor> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 19: TensorUtilsTest\_tensor\_utils

Execute the test command:

./run\_test.out core/tensor\_utils

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running core/tensor\_utils.core/tensor\_utils cost time: 0.048 ms√√√ all <core/tensor\_utils> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 20: ThreadPoolTest\_threadpool

Execute the test command:

./run\_test.out core/threadpool

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running core/threadpool.workIndex=0 in operator(), 26workIndex=1 in operator(), 26workIndex=-1 in operator(), 26workIndex=-1 in operator(), 26workIndex=-1 in operator(), 26index=0 in operator(), 29index=6 in operator(), 29index=8 in operator(), 29index=9 in operator(), 29workIndex=-1 in operator(), 26index=1 in operator(), 29index=3 in operator(), 29index=2 in operator(), 29workIndex=-1 in operator(), 26index=4 in operator(), 29index=5 in operator(), 29index=7 in operator(), 29workIndex=-1 in operator(), 26workIndex=0 in operator(), 26workIndex=-1 in operator(), 26index=0 in operator(), 29index=1 in operator(), 29index=2 in operator(), 29index=3 in operator(), 29index=4 in operator(), 29index=5 in operator(), 29index=6 in operator(), 29index=7 in operator(), 29index=8 in operator(), 29index=9 in operator(), 29core/threadpool cost time: 8.362 ms√√√ all <core/threadpool> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 21: ImageProcessTest\_bgr\_to\_bgr

Execute the test command:

./run\_test.out cv/image\_process/bgr\_to\_bgr

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/bgr\_to\_bgr.running cv/image\_process/bgr\_to\_bgr\_blitter.cv/image\_process/bgr\_to\_bgr cost time: 0.086 mscv/image\_process/bgr\_to\_bgr\_blitter cost time: 0.050 ms√√√ all <cv/image\_process/bgr\_to\_bgr> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test case 22: ImageProcessTest\_bgr\_to\_bgr\_blitter

Execute the test command:

./run\_test.out cv/image\_process/bgr\_to\_bgr\_blitter

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/bgr\_to\_bgr\_blitter.cv/image\_process/bgr\_to\_bgr\_blitter cost time: 0.108 ms√√√ all <cv/image\_process/bgr\_to\_bgr\_blitter> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 23: ImageProcessTest\_bgr\_to\_gray

Execute the test command:

./run\_test.out cv/image\_process/bgr\_to\_gray

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/bgr\_to\_gray.cv/image\_process/bgr\_to\_gray cost time: 0.063 ms√√√ all <cv/image\_process/bgr\_to\_gray> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 24: ImageProcessTest\_color\_resize\_test

Execute the test command:

./run\_test.out cv/image\_process/color\_resize\_test

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/color\_resize\_test.cv/image\_process/color\_resize\_test cost time: 0.033 ms√√√ all <cv/image\_process/color\_resize\_test> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 25: ImageProcessTest\_gray\_to\_gray

Execute the test command:

./run\_test.out cv/image\_process/gray\_to\_gray

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/gray\_to\_gray.running cv/image\_process/gray\_to\_gray\_bilinear\_transorm.running cv/image\_process/gray\_to\_gray\_nearest\_transorm.running cv/image\_process/gray\_to\_gray\_blitter.cv/image\_process/gray\_to\_gray cost time: 0.078 mscv/image\_process/gray\_to\_gray\_bilinear\_transorm cost time: 305.100 mscv/image\_process/gray\_to\_gray\_blitter cost time: 0.027 mscv/image\_process/gray\_to\_gray\_nearest\_transorm cost time: 39.975 ms√√√ all <cv/image\_process/gray\_to\_gray> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":4,"skipped":0}

1. Test case 26: ImageProcessTest\_gray\_to\_gray\_bilinear\_transform

Execute the test command:

./run\_test.out cv/image\_process/gray\_to\_gray\_bilinear\_transorm

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/gray\_to\_gray\_bilinear\_transorm.cv/image\_process/gray\_to\_gray\_bilinear\_transorm cost time: 306.433 ms√√√ all <cv/image\_process/gray\_to\_gray\_bilinear\_transorm> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 27: ImageProcessTest\_gray\_to\_gray\_blitter

Execute the test command:

./run\_test.out cv/image\_process/gray\_to\_gray\_blitter

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/gray\_to\_gray\_blitter.cv/image\_process/gray\_to\_gray\_blitter cost time: 0.100 ms√√√ all <cv/image\_process/gray\_to\_gray\_blitter> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 28: ImageProcessTest\_gray\_to\_gray\_nearest\_transform

Execute the test command:

./run\_test.out cv/image\_process/gray\_to\_gray\_nearest\_transorm

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/gray\_to\_gray\_nearest\_transorm.cv/image\_process/gray\_to\_gray\_nearest\_transorm cost time: 42.051 ms√√√ all <cv/image\_process/gray\_to\_gray\_nearest\_transorm> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 29: ImageProcessTest\_gray\_to\_rgba

Execute the test command:

./run\_test.out cv/image\_process/gray\_to\_rgba

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/gray\_to\_rgba.cv/image\_process/gray\_to\_rgba cost time: 0.079 ms√√√ all <cv/image\_process/gray\_to\_rgba> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 30: ImageProcessTest\_rgb\_to\_bgr

Execute the test command:

./run\_test.out cv/image\_process/rgb\_to\_bgr

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/rgb\_to\_bgr.cv/image\_process/rgb\_to\_bgr cost time: 0.078 ms√√√ all <cv/image\_process/rgb\_to\_bgr> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 31: ImageProcessTest\_rgb\_to\_gray

Execute the test command:

./run\_test.out cv/image\_process/rgb\_to\_gray

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/rgb\_to\_gray.cv/image\_process/rgb\_to\_gray cost time: 0.078 ms√√√ all <cv/image\_process/rgb\_to\_gray> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 32: ImageProcessTest\_rgba\_to\_bgr

Execute the test command:

./run\_test.out cv/image\_process/rgba\_to\_bgr

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/rgba\_to\_bgra.running cv/image\_process/rgba\_to\_bgr.cv/image\_process/rgba\_to\_bgr cost time: 0.006 mscv/image\_process/rgba\_to\_bgra cost time: 0.077 ms√√√ all <cv/image\_process/rgba\_to\_bgr> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test case 33: ImageProcessTest\_rgba\_to\_bgra

Execute the test command:

./run\_test.out cv/image\_process/rgba\_to\_bgra

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/rgba\_to\_bgra.cv/image\_process/rgba\_to\_bgra cost time: 0.077 ms√√√ all <cv/image\_process/rgba\_to\_bgra> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 34: ImageProcessTest\_rgba\_to\_gray

Execute the test command:

./run\_test.out cv/image\_process/rgba\_to\_gray

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/rgba\_to\_gray.running cv/image\_process/rgba\_to\_gray\_bilinear\_transorm.running cv/image\_process/rgba\_to\_gray\_nearest\_transorm.cv/image\_process/rgba\_to\_gray cost time: 0.102 mscv/image\_process/rgba\_to\_gray\_bilinear\_transorm cost time: 74.842 mscv/image\_process/rgba\_to\_gray\_nearest\_transorm cost time: 98.598 ms√√√ all <cv/image\_process/rgba\_to\_gray> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":3,"skipped":0}

1. Test case 35: ImageProcessTest\_rgba\_to\_gray\_bilinear\_transform

Execute the test command:

./run\_test.out cv/image\_process/rgba\_to\_gray\_bilinear\_transorm

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/rgba\_to\_gray\_bilinear\_transorm.cv/image\_process/rgba\_to\_gray\_bilinear\_transorm cost time: 53.276 ms√√√ all <cv/image\_process/rgba\_to\_gray\_bilinear\_transorm> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 36: ImageProcessTest\_rgba\_to\_gray\_nearest\_transform

Execute the test command:

./run\_test.out cv/image\_process/rgba\_to\_gray\_nearest\_transorm

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/rgba\_to\_gray\_nearest\_transorm.cv/image\_process/rgba\_to\_gray\_nearest\_transorm cost time: 62.464 ms√√√ all <cv/image\_process/rgba\_to\_gray\_nearest\_transorm> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 37: ImageProcessTest\_yuv\_blitter

Execute the test command:

./run\_test.out cv/image\_process/yuv\_blitter

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/image\_process/yuv\_blitter.cv/image\_process/yuv\_blitter cost time: 1532.948 ms√√√ all <cv/image\_process/yuv\_blitter> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 38: MatrixTest\_scale

Execute the test command:

./run\_test.out cv/matrix/scale

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running cv/matrix/scale.cv/matrix/scale cost time: 0.021 ms√√√ all <cv/matrix/scale> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 39: BackendTest\_copy\_buffer\_cpu

Execute the test command:

./run\_test.out engine/backend/copy\_buffer\_cpu

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running engine/backend/copy\_buffer\_cpu.Test 0 Backend for 0

========= check NC4HW4\_2\_NC4HW4\_IntType result ! =========

========= check NC4HW4\_2\_NC4HW4\_IntType result ! =========

========= check NC4HW4\_2\_NC4HW4\_IntType result ! =========

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========= check NC4HW4\_2\_NC4HW4\_IntType result ! =========

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========= check nhwc\_2\_NC4HW4\_2\_nhwc\_inttype result ! =========

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========= check NC4HW4\_2\_NC4HW4\_IntType result ! =========

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========= check nhwc\_2\_NC4HW4\_2\_nhwc\_inttype result ! =========engine/backend/copy\_buffer\_cpu cost time: 94.955 ms√√√ all <engine/backend/copy\_buffer\_cpu> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 40: BackendTest\_copy\_buffer\_float

Execute the test command:

./run\_test.out engine/backend/copy\_buffer\_float

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running engine/backend/copy\_buffer\_float.Test 0 Backend for 0res=1 in run, 672

========= check nchwTonhwc result ! =========res=1 in run, 674

========= check nhwc\_2\_NC4HW4\_2\_nhwc\_float result ! =========NC4HW4 -> nhwc !res=1 in run, 676res=1 in run, 678res=1 in run, 680res=1 in run, 682Test 0 Backend for 1res=1 in run, 672

========= check nchwTonhwc result ! =========res=1 in run, 674

========= check nhwc\_2\_NC4HW4\_2\_nhwc\_float result ! =========NC4HW4 -> nhwc !res=1 in run, 676res=1 in run, 678res=1 in run, 680res=1 in run, 682Test 0 Backend for 2res=1 in run, 672

========= check nchwTonhwc result ! =========res=1 in run, 674

========= check nhwc\_2\_NC4HW4\_2\_nhwc\_float result ! =========NC4HW4 -> nhwc !res=1 in run, 676res=1 in run, 678res=1 in run, 680res=1 in run, 682engine/backend/copy\_buffer\_float cost time: 28.160 ms√√√ all <engine/backend/copy\_buffer\_float> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 41: BackendTest\_copy\_buffer\_uint8

Execute the test command:

./run\_test.out engine/backend/copy\_buffer\_uint8

Test results:

The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running engine/backend/copy\_buffer\_uint8.Test 0 Backend

========= check NHWC result ! =========Error for bn:1, 1 -> 0Error for 0 bnengine/backend/copy\_buffer\_uint8 cost time: 3.851 msError: engine/backend/copy\_buffer\_uint8TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":1,"passed":0,"skipped":0}

1. Test Case 42: AllAnyTest\_AllAny

Execute the test command:

./run\_test.out expr/AllAny

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/AllAny.expr/AllAny cost time: 1.153 ms√√√ all <expr/AllAny> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 43: ModuleTest\_ConstMemoryReplaceTest

Execute the test command:

./run\_test.out expr/ConstMemoryReplaceTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running expr/ConstMemoryReplaceTest.expr/ConstMemoryReplaceTest cost time: 5.501 ms√√√ all <expr/ConstMemoryReplaceTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 44: ExecutorResetTest\_ExecutorCallBackTest

Execute the test command:

./run\_test.out expr/ExecutorCallBackTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/ExecutorCallBackTest.expr/ExecutorCallBackTest cost time: 0.550 ms√√√ all <expr/ExecutorCallBackTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 45: ExecutorResetTest\_ExecutorConfigTest

Execute the test command:

./run\_test.out expr/ExecutorConfigTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running expr/ExecutorConfigTest.expr/ExecutorConfigTest cost time: 3.698 ms√√√ all <expr/ExecutorConfigTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 46: ExecutorResetTest\_ExecutorReset

Execute the test command:

./run\_test.out expr/ExecutorReset

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/ExecutorReset.expr/ExecutorReset cost time: 7.242 ms√√√ all <expr/ExecutorReset> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 47: ExecutorScopeMultiThreadTest\_ExecutorScopeMultiThread

Execute the test command:

./run\_test.out expr/ExecutorScopeMultiThread

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running expr/ExecutorScopeMultiThread.expr/ExecutorScopeMultiThread cost time: 2.150 ms√√√ all <expr/ExecutorScopeMultiThread> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 48:ExprResizeTest\_ExprResize

Execute the test command:

./run\_test.out expr/ExprResize

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/ExprResizeCompute.running expr/ExprResize.expr/ExprResize cost time: 0.681 msexpr/ExprResizeCompute cost time: 14.086 ms√√√ all <expr/ExprResize> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 49:ExprResizeComputeTest\_ExprResizeCompute

Execute the test command:

./run\_test.out expr/ExprResizeCompute

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/ExprResizeCompute.expr/ExprResizeCompute cost time: 13.713 ms√√√ all <expr/ExprResizeCompute> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 50: ExtraTest\_Extra

Execute the test command:

./run\_test.out expr/Extra

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/Extra.expr/Extra cost time: 0.312 ms√√√ all <expr/Extra> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 51: GatherTest\_Gather

Execute the test command:

./run\_test.out expr/Gather

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/Gather.Can't open file:.tempcacheLoad Cache file error.running expr/GatherNdRecomputeTest.expr/Gather cost time: 1.728 msexpr/GatherNdRecomputeTest cost time: 0.304 ms√√√ all <expr/Gather> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 52: GatherTest\_GatherNdRecomputeTest

Execute the test command:

./run\_test.out expr/GatherNdRecomputeTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/GatherNdRecomputeTest.expr/GatherNdRecomputeTest cost time: 1.009 ms√√√ all <expr/GatherNdRecomputeTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 53: ModuleTest\_LoopTest

Execute the test command:

./run\_test.out expr/LoopTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/LoopTest.expr/LoopTest cost time: 1.806 ms√√√ all <expr/LoopTest> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 54: MatMulTest\_MatMul

Execute the test command:

./run\_test.out expr/MatMul

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/MatMul.expr/MatMul cost time: 2.326 ms√√√ all <expr/MatMul> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 55:MatrixBandTest\_MatrixBand

Execute the test command:

./run\_test.out expr/MatrixBand

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/MatrixBand.expr/MatrixBand cost time: 0.762 ms√√√ all <expr/MatrixBand> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 56: ModuleTest\_MemoryUsageTest

Execute the test command:

./run\_test.out expr/MemeoryUsageTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/MemeoryUsageTest.memory=f 56.735886 in operator(), 867memory=f 24.000000 in operator(), 867memory=f 7.667969 in operator(), 867memory=f 11.444092 in operator(), 867memory=f 15.258789 in operator(), 867expr/MemeoryUsageTest cost time: 802.141 ms√√√ all <expr/MemeoryUsageTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 57: ModuleTest\_ModuleClone

Execute the test command:

./run\_test.out expr/ModuleClone

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/ModuleClone.expr/ModuleClone cost time: 1994.698 ms√√√ all <expr/ModuleClone> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 58: ModuleTest\_ModuleReleaseTest

Execute the test command:

./run\_test.out expr/ModuleReleaseTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/ModuleReleaseTest.memory=f 0.000000 in run, 440memory=f 67.546303 in run, 453memory=f 0.000000 in run, 456expr/ModuleReleaseTest cost time: 324.085 ms√√√ all <expr/ModuleReleaseTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 59: ModuleTest\_ModuleTest

Execute the test command:

./run\_test.out expr/ModuleTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/ModuleTestSpeed.Thread 1 avg cost: 791.401062 msThread 4 avg cost: 334.214905 msexpr/ModuleTest cost time: 3783.901 msexpr/ModuleTestSpeed cost time: 11730.886 ms√√√ all <expr/ModuleTest> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 60: ModuleTest\_ModuleTestSpeed

Execute the test command:

./run\_test.out expr/ModuleTestSpeed

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/ModuleTestSpeed.Thread 1 avg cost: 876.757751 msThread 4 avg cost: 268.756226 msexpr/ModuleTestSpeed cost time: 12057.785 ms√√√ all <expr/ModuleTestSpeed> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 61: ModuleTest\_MultiThreadOneSessionTest

Execute the test command:

./run\_test.out expr/MultiThreadOneSessionTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running expr/MultiThreadOneSessionTest.expr/MultiThreadOneSessionTest cost time: 2000.198 ms√√√ all <expr/MultiThreadOneSessionTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 62: ModuleTest\_MutlThreadConstReplaceTest

Execute the test command:

./run\_test.out expr/MutlThreadConstReplaceTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/MutlThreadConstReplaceTest.Summer: 9.901237, 9.901237, 9.901237, 9.901237,expr/MutlThreadConstReplaceTest cost time: 56.760 ms√√√ all <expr/MutlThreadConstReplaceTest> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 63: PaddingTest\_Padding

Execute the test command:

./run\_test.out expr/Padding

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/Padding.expr/Padding cost time: 1.208 ms√√√ all <expr/Padding> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 64: ReplaceTest\_Precompute

Execute the test command:

./run\_test.out expr/Precompute

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/Precompute.running expr/PrecomputeDynamic.expr/Precompute cost time: 0.817 msexpr/PrecomputeDynamic cost time: 0.649 ms√√√ all <expr/Precompute> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 65: ReplaceTest\_PrecomputeDynamic

Execute the test command:

./run\_test.out expr/PrecomputeDynamic

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/PrecomputeDynamic.expr/PrecomputeDynamic cost time: 1.086 ms√√√ all <expr/PrecomputeDynamic> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 66: RasterOutputTest\_RasterOutput

Execute the test command:

./run\_test.out expr/RasterOutput

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/RasterOutput.expr/RasterOutput cost time: 13.895 ms√√√ all <expr/RasterOutput> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 67: ModuleTest\_RefTest

Execute the test command:

./run\_test.out expr/RefTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/RefTest.expr/RefTest cost time: 0.816 ms√√√ all <expr/RefTest> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 68:ReplaceTest\_Replace

Execute the test command:

./run\_test.out expr/Replace

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/Replace.expr/Replace cost time: 0.752 ms√√√ all <expr/Replace> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 69: ModuleTest\_ResizeOptimizationTest

Execute the test command:

./run\_test.out expr/ResizeOptimizationTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/ResizeOptimizationTest.summer=f 7.829024 in operator(), 1125summer=f 9.333494 in operator(), 1125summer=f 544.495117 in operator(), 1125summer=f 7.829024 in operator(), 1125summer=f 9.333494 in operator(), 1125summer=f 544.495117 in operator(), 1125Fix: 34 - Total: 63, rate = 0.539683summer=f 7.829024 in operator(), 1125summer=f 9.333494 in operator(), 1125summer=f 544.495117 in operator(), 1125expr/ResizeOptimizationTest cost time: 1335.429 ms√√√ all <expr/ResizeOptimizationTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 70:ReverseSequenceTest\_ReverseSequence

Execute the test command:

./run\_test.out expr/ReverseSequence

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/ReverseSequence.expr/ReverseSequence cost time: 0.797 ms√√√ all <expr/ReverseSequence> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 71: ModuleTest\_SessionCircleTest

Execute the test command:

./run\_test.out expr/SessionCircleTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/SessionCircleTest.loop: 1, 0.500000 -> 19.221680, 5.000000 -> 1922.167969loop: 0, 0.500000 -> 0.500000, 5.000000 -> 50.000000expr/SessionCircleTest cost time: 7.362 ms√√√ all <expr/SessionCircleTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 72: ModuleTest\_SessionTest

Execute the test command:

./run\_test.out expr/SessionTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/SessionTest.\_run, 721, cost time: 3467.069092 ms\_run, 730, cost time: 1073.075073 msThe ThreadPool has been used to MNN\_THREAD\_POOL\_MAX\_TASKS, can't use thread pooloperator(), 747, cost time: 3051.474121 msoperator(), 747, cost time: 3100.280029 msoperator(), 747, cost time: 3987.992188 msoperator(), 747, cost time: 4745.401367 ms\_run, 774, cost time: 1675.474121 ms\_run, 774, cost time: 1102.236084 ms\_run, 774, cost time: 1360.517090 ms\_run, 721, cost time: 3270.357178 ms\_run, 730, cost time: 1741.806030 msThe ThreadPool has been used to MNN\_THREAD\_POOL\_MAX\_TASKS, can't use thread pooloperator(), 747, cost time: 3384.026123 msoperator(), 747, cost time: 3388.312256 msoperator(), 747, cost time: 4365.556152 msoperator(), 747, cost time: 4925.795410 ms\_run, 774, cost time: 1446.010010 ms\_run, 774, cost time: 1743.782104 ms\_run, 774, cost time: 1750.773071 msexpr/SessionTest cost time: 37622.105 ms√√√ all <expr/SessionTest> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 73: ModuleTest\_SpecialSessionTest

Execute the test command:

./run\_test.out expr/SpecialSessionTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/SpecialSessionTest.expr/SpecialSessionTest cost time: 0.787 ms√√√ all <expr/SpecialSessionTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 74: ModuleTest\_WinogradMemoryTest

Execute the test command:

./run\_test.out expr/WinogradMemoryTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/WinogradMemoryTest.level=0,3: 36.739704Mb, 56.739704Mbexpr/WinogradMemoryTest cost time: 855.383 ms√√√ all <expr/WinogradMemoryTest> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 75:ZeroShapeTest\_zeroshape

Execute the test command:

./run\_test.out expr/zeroshape

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/zeroshaperesize.running expr/zeroshape.running expr/zeroshape2.running expr/zeroshape3.running expr/zeroshape4.expr/zeroshape cost time: 0.022 msexpr/zeroshape2 cost time: 0.015 msexpr/zeroshape3 cost time: 0.228 msexpr/zeroshape4 cost time: 0.021 msexpr/zeroshaperesize cost time: 0.488 ms√√√ all <expr/zeroshape> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":5,"skipped":0}

1. Test Case 76:ZeroShapeTest\_zeroshape2

Execute the test command:

./run\_test.out expr/zeroshape2

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/zeroshape2.expr/zeroshape2 cost time: 0.212 ms√√√ all <expr/zeroshape2> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 77:ZeroShapeTest\_zeroshape3

Execute the test command:

./run\_test.out expr/zeroshape3

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/zeroshape3.expr/zeroshape3 cost time: 0.628 ms√√√ all <expr/zeroshape3> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 78:ZeroShapeTest\_zeroshape4

Execute the test command:

./run\_test.out expr/zeroshape4

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/zeroshape4.expr/zeroshape4 cost time: 0.205 ms√√√ all <expr/zeroshape4> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 79:ZeroShapeTest\_zeroshaperesize

Execute the test command:

./run\_test.out expr/zeroshaperesize

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running expr/zeroshaperesize.expr/zeroshaperesize cost time: 0.458 ms√√√ all <expr/zeroshaperesize> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 80: BinaryGradTest\_binary

Execute the test command:

./run\_test.out grad/binary

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running grad/binary.grad/binary cost time: 3.055 ms√√√ all <grad/binary> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 81: GridSampleGradTest\_grid\_sample

Execute the test command:

./run\_test.out grad/grid\_sample

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running grad/grid\_sample.grad/grid\_sample cost time: 3.902 ms√√√ all <grad/grid\_sample> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 82:InterpGradTest\_interp

Execute the test command:

./run\_test.out grad/interp

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running grad/interp.1: Interp type 4 output test failed, expected: 0.672100, but got: 0.434300!2: Interp type 4 output test failed, expected: 0.672100, but got: 0.434300!3: Interp type 4 output test failed, expected: 0.945600, but got: 0.644400!4: Interp type 4 output test failed, expected: 0.945600, but got: 0.644400!5: Interp type 4 output test failed, expected: 0.945600, but got: 0.644400!6: Interp type 4 output test failed, expected: 0.443900, but got: 0.932900!7: Interp type 4 output test failed, expected: 0.443900, but got: 0.932900!8: Interp type 4 output test failed, expected: 0.693300, but got: 0.018000!9: Interp type 4 output test failed, expected: 0.693300, but got: 0.018000!10: Interp type 4 output test failed, expected: 0.693300, but got: 0.018000!11: Interp type 4 output test failed, expected: 0.290300, but got: 0.415900!12: Interp type 4 output test failed, expected: 0.290300, but got: 0.415900!13: Interp type 4 output test failed, expected: 0.181200, but got: 0.589000!14: Interp type 4 output test failed, expected: 0.181200, but got: 0.589000!15: Interp type 4 output test failed, expected: 0.181200, but got: 0.589000!16: 0.033500, but got: 0.999700!17: Interp type 4 output test failed, expected: 0.033500, but got: 0.999700!18: Interp type 4 output test failed, expected: 0.537900, but got: 0.983600!19: 0.537900, but got: 0.983600!20: Interp type 4 output test failed, expected: 0.537900, but got: 0.983600!21: Interp type 4 output test failed, expected: 0.482400, but got: 0.998200!22: Interp type 4 output test failed, expected: 0.482400, but got: 0.998200!23: Interp type 4 output test failed, expected: 0.288900, but got: 0.838600!24: Interp type 4 output test failed, expected: 0.288900, but got: 0.838600!25: Interp type 4 output test failed, expected: 0.288900, but got: 0.838600!26: Interp type 4 output test failed, expected: 0.691200, but got: 0.267800! 27: Interp type 4 output test failed, expected: 0.691200, but got: 0.267800! 28: Interp type 4 output test failed, expected: 0.705500, but got: 0.938900! 0.705500, but got: 0.938900!30: Interp type 4 output test failed, expected: 0.705500, but got: 0.938900!1: Interp type 3 alignCorners false output test failed, expected: 0.502900, but got: 0.872178!2: Interp type 3 alignCorners false output test failed, expected: 0.528600, but got: 0.777851!3: Interp type 3 alignCorners false output test failed, expected: 0.601000, but got: 0.845025!4: Interp type 3 alignCorners false output test failed, expected: 0.645700, but got: 0.878178!5: Interp type 3 alignCorners false output test failed, expected: 0.591400, but got: 0.801406!6: Interp type 3 alignCorners false output test failed, expected: 0.481400, but got: 0.669687!7: Interp type 3 alignCorners false output test failed, expected: 0.397100, but got: 0.568559!8: Interp type 3 alignCorners false output test failed, expected: 0.561500, but got: 0.687899!9: Interp type 3 alignCorners false output test failed, expected: 0.689000, but got: 0.808445!10: Interp type 3 alignCorners false output test failed, expected: 0.816500, but got: 0.928990!11: Interp type 3 alignCorners false output test failed, expected: 0.875100, but got: 0.984432!12: Interp type 3 alignCorners false output test failed, expected: 0.667100, but got: 0.563321!13: Interp type 3 alignCorners false output test failed, expected: 0.619500, but got: 0.300227!14: Interp type 3 alignCorners false output test failed, expected: 0.471400, but got: 0.479092!15: Interp type 3 alignCorners false output test failed, expected: 0.397400, but got: 0.615901!16: Interp type 3 alignCorners false output test failed, expected: 0.563800, but got: 0.565074!17: Interp type 3 alignCorners false output test failed, expected: 0.850900, but got: 0.387808!18: Interp type 3 alignCorners false output test failed, expected: 1.071300, but got: 0.251967!19: Interp type 3 alignCorners false output test failed, expected: 0.565900, but got: 0.446495!20: Interp type 3 alignCorners false output test failed, expected: 0.345900, but got: 0.522916!21: Interp type 3 alignCorners false output test failed, expected: 0.125900, but got: 0.599338!22: Interp type 3 alignCorners false output test failed, expected: 0.024700, but got: 0.634487!23: Interp type 3 alignCorners false output test failed, expected: 0.251200, but got: 0.316140!24: Interp type 3 alignCorners false output test failed, expected: 0.259400, but got: 0.672632!25: Interp type 3 alignCorners false output test failed, expected: 0.270500, but got: 0.433084!26: Interp type 3 alignCorners false output test failed, expected: 0.292800, but got: 0.233025!27: Interp type 3 alignCorners false output test failed, expected: 0.333800, but got: 0.247818!28: Interp type 3 alignCorners false output test failed, expected: 0.372600, but got: 0.425054!29: Interp type 3 alignCorners false output test failed, expected: 0.402600, but got: 0.560696!30: Interp type 3 alignCorners false output test failed, expected: 0.371600, but got: 0.287643!31: Interp type 3 alignCorners false output test failed, expected: 0.633400, but got: 0.306284!32: Interp type 3 alignCorners false output test failed, expected: 0.895200, but got: 0.324926!33: Interp type 3 alignCorners false output test failed, expected: 1.015700, but got: 0.333500!34: Interp type 3 alignCorners false output test failed, expected: 0.383200, but got: 0.402007!35: Interp type 3 alignCorners false output test failed, expected: 0.306100, but got: 0.623450!36: Interp type 3 alignCorners false output test failed, expected: 0.064500, but got: 0.467191!37: Interp type 3 alignCorners false output test failed, expected: -0.054400, but got: 0.381843!38: Interp type 3 alignCorners false output test failed, expected: 0.223200, but got: 0.534385!39: Interp type 3 alignCorners false output test failed, expected: 0.698600, but got: 0.811374!40: Interp type 3 alignCorners false output test failed, expected: 1.063700, but got: 1.023990!41: Interp type 3 alignCorners false output test failed, expected: 0.450800, but got: 0.067522!42: Interp type 3 alignCorners false output test failed, expected: 0.597900, but got: 0.286324!43: Interp type 3 alignCorners false output test failed, expected: 0.745000, but got: 0.505126!44: Interp type 3 alignCorners false output test failed, expected: 0.812600, but got: 0.605760!45: Interp type 3 alignCorners false output test failed, expected: 0.240900, but got: 0.374095!46: Interp type 3 alignCorners false output test failed, expected: 0.282900, but got: 0.637902!47: Interp type 3 alignCorners false output test failed, expected: 0.337400, but got: 0.454909!48: Interp type 3 alignCorners false output test failed, expected: 0.453200, but got: 0.336745!49: Interp type 3 alignCorners false output test failed, expected: 0.672700, but got: 0.457746!50: Interp type 3 alignCorners false output test failed, expected: 0.884100, but got: 0.717029!51: Interp type 3 alignCorners false output test failed, expected: 1.046900, but got: 0.915948!52: Interp type 3 alignCorners false output test failed, expected: 0.348000, but got: 0.379576!53: Interp type 3 alignCorners false output test failed, expected: 0.580900, but got: 0.375991!54: Interp type 3 alignCorners false output test failed, expected: 0.813900, but got: 0.372405!55: Interp type 3 alignCorners false output test failed, expected: 0.921000, but got: 0.370756!56: Interp type 3 alignCorners false output test failed, expected: 0.094700, but got: 0.699690!57: Interp type 3 alignCorners false output test failed, expected: 0.201100, but got: 0.713375!58: Interp type 3 alignCorners false output test failed, expected: 0.468200, but got: 0.703455!59: Interp type 3 alignCorners false output test failed, expected: 0.675800, but got: 0.699554!60: Interp type 3 alignCorners false output test failed, expected: 0.610400, but got: 0.714038!61: Interp type 3 alignCorners false output test failed, expected: 0.357500, but got: 0.737043!62: Interp type 3 alignCorners false output test failed, expected: 0.163700, but got: 0.754710!63: Interp type 3 alignCorners false output test failed, expected: 0.238500, but got: 0.619051!64: Interp type 3 alignCorners false output test failed, expected: 0.551000, but got: 0.671801!65: Interp type 3 alignCorners false output test failed, expected: 0.863600, but got: 0.724550!66: Interp type 3 alignCorners false output test failed, expected: 1.007300, but got: 0.748812!0: Interp type 3 alignCorners false grad test failed, expected: 2.660200, but got: 1.336299!1: Interp type 3 alignCorners false grad test failed, expected: 4.375000, but got: 4.045738!2: Interp type 3 alignCorners false grad test failed, expected: 2.022200, but got: 1.498980!3: Interp type 3 alignCorners false grad test failed, expected: 2.882700, but got: 1.829742!4: Interp type 3 alignCorners false grad test failed, expected: 3.607700, but got: 6.629037!5: Interp type 3 alignCorners false grad test failed, expected: 2.900300, but got: 3.108286!6: Interp type 3 alignCorners false grad test failed, expected: 2.920700, but got: 1.035571!7: Interp type 3 alignCorners false grad test failed, expected: 2.872100, but got: 2.970349!8: Interp type 3 alignCorners false grad test failed, expected: 2.004400, but got: 1.040197!9: Interp type 3 alignCorners false grad test failed, expected: 3.263700, but got: 2.506496!10: Interp type 3 alignCorners false grad test failed, expected: 3.314800, but got: 6.209277!11: Interp type 3 alignCorners false grad test failed, expected: 1.590700, but got: 2.204496!12: Interp type 3 alignCorners false grad test failed, expected: 2.941700, but got: 1.248637!13: Interp type 3 alignCorners false grad test failed, expected: 3.641400, but got: 3.438754!14: Interp type 3 alignCorners false grad test failed, expected: 1.657200, but got: 1.414953!15: Interp type 3 alignCorners false grad test failed, expected: 3.349500, but got: 2.449485!16: Interp type 3 alignCorners false grad test failed, expected: 3.431800, but got: 6.571462!17: 1.876595!18: Interp type 3 alignCorners false grad test failed, expected: 1.864600, but got: 0.548785!19: Interp type 3 alignCorners false grad test failed, expected: 1.895300, but got: 2.091099!20: Interp type 3 alignCorners false grad test failed, expected: 2.567900, but got: 1.477586!21: Interp type 3 alignCorners false grad test failed, expected: 3.728400, but got: 2.914155!22: Interp type 3 alignCorners false grad test failed, expected: 3.988500, but got: 6.205279!23: Interp type 3 alignCorners false grad test failed, expected: 1.233600, but got: 2.041382!24: Interp type 3 alignCorners false grad test failed, expected: 2.978100, but got: 1.369470!25: Interp type 3 alignCorners false grad test failed, expected: 3.327500, but got: 3.578638!26: Interp type 3 alignCorners false grad test failed, expected: 2.559400, but got: 1.606964!27: Interp type 3 alignCorners false grad test failed, expected: 4.253500, but got: 3.221913!28: Interp type 3 alignCorners false grad test failed, expected: 2.762500, but got: 5.501769!29: Interp type 3 alignCorners false grad test failed, expected: 2.344600, but got: 2.946831!30: Interp type 3 alignCorners false grad test failed, expected: 3.275500, but got: 1.700133!31: Interp type 3 alignCorners false grad test failed, expected: 3.285700, but got: 2.712580!32: Interp type 3 alignCorners false grad test failed, expected: 3.065700, but got: 2.027863!33: Interp type 3 alignCorners false grad test failed, expected: 4.629200, but got: 3.765956!34: Interp type 3 alignCorners false grad test failed, expected: 3.690000, but got: 7.025137!35: Interp type 3 alignCorners false grad test failed, expected: 1.891100, but got: 2.605513!grad/interp cost time: 25.210 ms√√√ all <grad/interp> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 83:MatrixBandPartGradTest\_matrix\_band\_part

Execute the test command:

./run\_test.out grad/matrix\_band\_part

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running grad/matrix\_band\_part.grad/matrix\_band\_part cost time: 0.549 ms√√√ all <grad/matrix\_band\_part> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 84: PReLUGradTest\_prelu

Execute the test command:

./run\_test.out grad/prelu

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running grad/prelu.grad/prelu cost time: 0.831 ms√√√ all <grad/prelu> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 85:ReduceGradTest\_reduce

Execute the test command:

./run\_test.out grad/reduce

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running grad/reduce.grad/reduce cost time: 1.987 ms√√√ all <grad/reduce> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 86: ReLUGradTest\_relu

Execute the test command:

./run\_test.out grad/relu

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running grad/relu6.running grad/relu.grad/relu cost time: 0.234 msgrad/relu6 cost time: 0.897 ms√√√ all <grad/relu> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test case 87: ReLU6GradTest\_relu6

Execute the test command:

./run\_test.out grad/relu6

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running grad/relu6.grad/relu6 cost time: 0.943 ms√√√ all <grad/relu6> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 88:RoiAlignGradTest\_roi\_align

Execute the test command:

./run\_test.out grad/roi\_align

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running grad/roi\_align.grad/roi\_align cost time: 1.628 ms√√√ all <grad/roi\_align> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 89:RoiPoolGradTest\_roi\_pool

Execute the test command:

./run\_test.out grad/roi\_pool

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running grad/roi\_pool.grad/roi\_pool cost time: 0.907 ms√√√ all <grad/roi\_pool> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 90: ScaleGradTest\_scale

Execute the test command:

./run\_test.out grad/scale

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running grad/scale.grad/scale cost time: 0.602 ms√√√ all <grad/scale> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 91: SeluGradTest\_selu

Execute the test command:

./run\_test.out grad/selu

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running grad/selu.grad/selu cost time: 0.820 ms√√√ all <grad/selu> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 92: TopKV2GradTest\_topkv2

Execute the test command:

./run\_test.out grad/topkv2

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running grad/topkv2.grad/topkv2 cost time: 0.822 ms√√√ all <grad/topkv2> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 93: UnaryGradTest\_unary

Execute the test command:

./run\_test.out grad/unary

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running grad/unary.grad/unary cost time: 5.034 ms√√√ all <grad/unary> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 94: MobileNetTest\_caffe\_1

Execute the test command:

./run\_test.out model/mobilenet/1/caffe

Test results:

The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running model/mobilenet/1/caffe.Can't Find type=1 backend, use 0 instead msrun cost 532.869000 msrun cost 520.578000 msrun cost 518.814000 msrun cost 519.428000 msrun cost 528.594000 msrun cost 522.623000 msrun cost 519.434000 msrun cost 519.710000 msrun cost 519.637000 msrun cost 528.893000 msrun cost 522.532000 msrun cost 518.879000 msrun cost 519.832000 msrun cost 519.764000 msrun cost 519.945000 msrun cost 520.299000 msrun cost 534.736000 ms10: 0.000000 != 0.001560run\_test.out: /home/zm/mnn/test/model/MobileNetTest.cpp:122: MobileNetTest::run(int)::<lambda(MNNForwardType)>: Assertion `TensorUtils::compareTensors(hostTensor.get(), expect.get(), tolerance, true)' failed.Aborted (core dumped)

1. Test case 95: MobileNetTest\_caffe\_2

Execute the test command:

./run\_test.out model/mobilenet/2/caffe

Test results:

The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running model/mobilenet/2/caffe.Can't Find type=1 backend, use 0 instead msrun cost 438.801000 msrun cost 452.268000 msrun cost 437.459000 msrun cost 438.501000 msrun cost 439.065000 msrun cost 446.014000 msrun cost 443.554000 msrun cost 437.102000 msrun cost 437.970000 msrun cost 437.705000 msrun cost 437.850000 msrun cost 445.528000 msrun cost 442.007000 msrun cost 437.727000 msrun cost 438.296000 msrun cost 437.412000 msrun cost 437.560000 ms21: 0.000000 != 0.002197run\_test.out: /home/zm/mnn/test/model/MobileNetTest.cpp:122: MobileNetTest::run(int)::<lambda(MNNForwardType)>: Assertion `TensorUtils::compareTensors(hostTensor.get(), expect.get(), tolerance, true)' failed.Aborted (core dumped)

1. Test case 96: MobileNetTest\_tflite

Execute the test command:

./run\_test.out model/mobilenet/2/tflite

Test results:

The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running model/mobilenet/2/tflite.Can't Find type=1 backend, use 0 instead msrun cost 313.159000 msrun cost 313.494000 msrun cost 322.730000 msrun cost 315.591000 msrun cost 316.646000 msrun cost 318.829000 msrun cost 318.780000 msrun cost 319.179000 msrun cost 322.001000 msrun cost 319.401000 msrun cost 313.720000 msrun cost 315.189000 msrun cost 323.693000 msrun cost 313.913000 msrun cost 313.215000 msrun cost 313.491000 msrun cost 321.632000 ms22: 0.000034 != 0.006850run\_test.out: /home/zm/mnn/test/model/MobileNetTest.cpp:122: MobileNetTest::run(int)::<lambda(MNNForwardType)>: Assertion `TensorUtils::compareTensors(hostTensor.get(), expect.get(), tolerance, true)' failed.Aborted (core dumped)

1. Test case 97: MobileNetTest\_tflite\_qnt

Execute the test command:

./run\_test.out model/mobilenet/2/tflite\_qnt

Test results:

The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running model/mobilenet/2/tflite\_qnt.Can't Find type=1 backend, use 0 insteadCan't Find type=1 backend, use 0 insteadrun cost 486.584000 msrun cost 484.507000 msrun cost 484.336000 msrun cost 487.969000 msrun cost 505.600000 msrun cost 485.153000 msrun cost 484.809000 msrun cost 485.188000 msrun cost 507.102000 msrun cost 484.836000 msrun cost 487.537000 msrun cost 485.282000 msrun cost 484.558000 msrun cost 484.404000 msrun cost 488.905000 msrun cost 484.291000 msrun cost 484.576000 msrun cost 484.213000 msrun cost 484.486000 msrun cost 484.015000 ms2: 59.000000 != 70.000000run\_test.out: /home/zm/mnn/test/model/MobileNetTest.cpp:122: MobileNetTest::run(int)::<lambda(MNNForwardType)>: Assertion `TensorUtils::compareTensors(hostTensor.get(), expect.get(), tolerance, true)' failed.Aborted (core dumped)

1. Test Case 98: SqueezeNetTest\_1.0

Execute the test command:

./run\_test.out model/squeezenet/1.0

Test results:

The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running model/squeezenet/1.0.The ThreadPool has been used to MNN\_THREAD\_POOL\_MAX\_TASKS, can't use thread poolmodel/squeezenet/1.0 cost time: 1991.545 ms√√√ all <model/squeezenet/1.0> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 99: SqueezeNetTest\_1.1

Execute the test command:

./run\_test.out model/squeezenet/1.1

Test results:

The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running model/squeezenet/1.1.The ThreadPool has been used to MNN\_THREAD\_POOL\_MAX\_TASKS, can't use thread pool533: 0.026039 != 0.022005run\_test.out: /home/zm/mnn/test/model/SqueezeNetTest.cpp:87: SqueezeNetTest::run(int)::<lambda(MNNForwardType)>: Assertion `TensorUtils::compareTensors(output, expect.get(), tolerance, true)' failed.Aborted (core dumped)

1. Test Case 100: ExtractTest\_Extract

Execute the test command:

./run\_test.out nn/Extract

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running nn/Extract.nn/Extract cost time: 0.932 ms√√√ all <nn/Extract> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 101: Pool3DTest\_AvePool3d

Execute the test command:

./run\_test.out op/AvePool3d

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/AvePool3d.op/AvePool3d cost time: 0.697 ms√√√ all <op/AvePool3d> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 102: BatchMatMulTest\_BatchMatMul

Execute the test command:

./run\_test.out op/BatchMatMul

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/BatchMatMul.op/BatchMatMul cost time: 1684.848 ms√√√ all <op/BatchMatMul> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 103: BroadcastToTest\_BinaryBroadcastTest

Execute the test command:

./run\_test.out op/BinaryBroadcastTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/BinaryBroadcastTest.op/BinaryBroadcastTest cost time: 1.287 ms√√√ all <op/BinaryBroadcastTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 104: BroadcastToTest\_BroadcastToTest

Execute the test command:

./run\_test.out op/BroadcastToTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/BroadcastToTest.op/BroadcastToTest cost time: 0.829 ms√√√ all <op/BroadcastToTest> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 105: Conv2DBackPropFilterTest\_Conv2DBackPropFilter

Execute the test command:

./run\_test.out op/Conv2DBackPropFilter

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/Conv2DBackPropFilter.running op/Conv2DBackPropFilterDW.op/Conv2DBackPropFilter cost time: 0.622 msop/Conv2DBackPropFilterDW cost time: 0.812 ms√√√ all <op/Conv2DBackPropFilter> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test case 106: Conv2DBackPropFilterTest\_Conv2DBackPropFilterDW

Execute the test command:

./run\_test.out op/Conv2DBackPropFilterDW

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/Conv2DBackPropFilterDW.op/Conv2DBackPropFilterDW cost time: 1.311 ms√√√ all <op/Conv2DBackPropFilterDW> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 107: Conv2DBackPropTest\_Conv2DBackPropTest

Execute the test command:

./run\_test.out op/Conv2DBackPropTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/Conv2DBackPropTest.op/Conv2DBackPropTest cost time: 0.634 ms√√√ all <op/Conv2DBackPropTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 108: ConvInt8Test\_depthwise

Execute the test command:

./run\_test.out op/ConvInt8/depthwise

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/ConvInt8/depthwise.Test strides=1strides=2op/ConvInt8/depthwise cost time: 16.819 ms√√√ all <op/ConvInt8/depthwise> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 109: ConvInt8Test\_im2col\_gemm

Execute the test command:

./run\_test.out op/ConvInt8/im2col\_gemm

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/ConvInt8/im2col\_gemm.op/ConvInt8/im2col\_gemm cost time: 3927.705 ms√√√ all <op/ConvInt8/im2col\_gemm> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 110: ConvInt8Test\_im2col\_spmm

Execute the test command:

./run\_test.out op/ConvInt8/im2col\_spmm

Test results:

The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running op/ConvInt8/im2col\_spmm.op/ConvInt8/im2col\_spmm cost time: 1342.500 ms√√√ all <op/ConvInt8/im2col\_spmm> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 111: ConvInt8Test\_winograd\_op

Execute the test command:

./run\_test.out op/ConvInt8/winograd

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/ConvInt8/winograd.op/ConvInt8/winograd cost time: 669.847 ms√√√ all <op/ConvInt8/winograd> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 112: CosineSimilarityTest\_CosineSimilarity

Execute the test command:

./run\_test.out op/CosineSimilarity

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/CosineSimilarity.op/CosineSimilarity cost time: 0.729 ms√√√ all <op/CosineSimilarity> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 113: CropAndResizeTest\_CropAndResize

Execute the test command:

./run\_test.out op/CropAndResize

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/CropAndResize.op/CropAndResize cost time: 0.493 ms√√√ all <op/CropAndResize> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 114: DeconvolutionTest\_Deconvolution

Execute the test command:

./run\_test.out op/Deconvolution

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/Deconvolution.beigin testcase 0beigin testcase 1beigin testcase 2running op/DeconvolutionInt8.begin testcase 0begin testcase 1begin testcase 2begin testcase 3op/Deconvolution cost time: 0.850 msop/DeconvolutionInt8 cost time: 1.188 ms√√√ all <op/Deconvolution> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 115: DeconvolutionTest\_DeconvolutionInt8

Execute the test command:

./run\_test.out op/DeconvolutionInt8

Test results:

The device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running op/DeconvolutionInt8.begin testcase 0begin testcase 1begin testcase 2begin testcase 3free(): invalid pointerAborted (core dumped)

1. Test Case 116: Dilation2DTest\_cpu

Execute the test command:

./run\_test.out op/Dilation2D/cpu

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/Dilation2D/cpu.op/Dilation2D/cpu cost time: 0.898 ms√√√ all <op/Dilation2D/cpu> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 117: GatherElementsTest\_GatherElements

Execute the test command:

./run\_test.out op/GatherElements

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/GatherElements.op/GatherElements cost time: 0.754 ms√√√ all <op/GatherElements> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 118: GridSampleTest\_GridSample

Execute the test command:

./run\_test.out op/GridSample

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/GridSample.op/GridSample cost time: 560.413 ms√√√ all <op/GridSample> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 119: InnerProductTest\_InnerProduct

Execute the test command:

./run\_test.out op/InnerProduct

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/InnerProduct.op/InnerProduct cost time: 0.544 ms√√√ all <op/InnerProduct> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 120: ResizeTest\_Interp

Execute the test command:

./run\_test.out op/Interp

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/Interp.running op/InterpInt8.InterpInt8 test: Type=1InterpInt8 test: Type=2InterpInt8 test: Type=3op/Interp cost time: 0.876 msop/InterpInt8 cost time: 0.574 ms√√√ all <op/Interp> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 121: ResizeTest\_InterpInt8

Execute the test command:

./run\_test.out op/InterpInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/InterpInt8.InterpInt8 test: Type=1InterpInt8 test: Type=2InterpInt8 test: Type=3op/InterpInt8 cost time: 1.066 ms√√√ all <op/InterpInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 122: Pool3DTest\_MaxPool3d

Execute the test command:

./run\_test.out op/MaxPool3d

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/MaxPool3d.op/MaxPool3d cost time: 0.652 ms√√√ all <op/MaxPool3d> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 123: MultiConvolutionTest\_MultiConv

Execute the test command:

./run\_test.out op/MultiConv

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/MultiConv.op/MultiConv cost time: 0.821 ms√√√ all <op/MultiConv> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 124: MultiDeconvolutionTest\_MultiDeconv

Execute the test command:

./run\_test.out op/MultiDeconv

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/MultiDeconv.op/MultiDeconv cost time: 0.853 ms√√√ all <op/MultiDeconv> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 125:OneHotTest\_OneHotTest

Execute the test command:

./run\_test.out op/OneHotTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/OneHotTest.op/OneHotTest cost time: 0.579 ms√√√ all <op/OneHotTest> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 126:PermuteTest\_PermuteTest

Execute the test command:

./run\_test.out op/PermuteTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/PermuteTest.op/PermuteTest cost time: 7.199 ms√√√ all <op/PermuteTest> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 127: PoolGradTest\_PoolGrad

Execute the test command:

./run\_test.out op/PoolGrad

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/PoolGrad.op/PoolGrad cost time: 1.075 ms√√√ all <op/PoolGrad> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 128:ROIAlignTest\_ROIAlign

Execute the test command:

./run\_test.out op/ROIAlign

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/ROIAlign.op/ROIAlign cost time: 1.105 ms√√√ all <op/ROIAlign> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 129:ROIPoolingTest\_ROIPooling

Execute the test command:

./run\_test.out op/ROIPooling

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/ROIPooling.op/ROIPooling cost time: 0.793 ms√√√ all <op/ROIPooling> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 130: ScatterElementsTest\_ScatterElementsTest

Execute the test command:

./run\_test.out op/ScatterElementsTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/ScatterElementsTest.op/ScatterElementsTest cost time: 1.259 ms√√√ all <op/ScatterElementsTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 131: ScatterNdTest\_ScatterNdTest

Execute the test command:

./run\_test.out op/ScatterNdTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/ScatterNdTest.op/ScatterNdTest cost time: 1.325 ms√√√ all <op/ScatterNdTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 132:TopKV2Test\_TopKV2

Execute the test command:

./run\_test.out op/TopKV2

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/TopKV2.0 s 15 msop/TopKV2 cost time: 78.752 ms√√√ all <op/TopKV2> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 133: UnravelIndexTest\_UnravelIndexTest

Execute the test command:

./run\_test.out op/UnravelIndexTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/UnravelIndexTest.op/UnravelIndexTest cost time: 0.545 ms√√√ all <op/UnravelIndexTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 134: ArgMaxTest\_argmax

Execute the test command:

./run\_test.out op/argmax

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/argmax.op/argmax cost time: 0.679 ms√√√ all <op/argmax> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 135: ArgMaxTest\_argmin

Execute the test command:

./run\_test.out op/argmin

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/argmin.op/argmin cost time: 0.489 ms√√√ all <op/argmin> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 136: BatchToSpaceNDTest\_batch\_to\_space\_nd

Execute the test command:

./run\_test.out op/batch\_to\_space\_nd

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/batch\_to\_space\_nd.op/batch\_to\_space\_nd cost time: 0.718 ms√√√ all <op/batch\_to\_space\_nd> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 137: Conv2DBackPropTest\_bias\_grad

Execute the test command:

./run\_test.out op/bias\_grad

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/bias\_grad.op/bias\_grad cost time: 59.636 ms√√√ all <op/bias\_grad> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 138: BinaryOPTest\_AddBroast

Execute the test command:

./run\_test.out op/binary/AddBroast

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/AddBroast.op/binary/AddBroast cost time: 0.441 ms√√√ all <op/binary/AddBroast> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 139: BinaryOPTest\_add

Execute the test command:

./run\_test.out op/binary/add

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/add.running op/binary/addInt8.AddInt8 test zeropoint is zeroAddInt8 test zeropoint is not zerorunning op/binary/addC4.op/binary/add cost time: 0.433 msop/binary/addC4 cost time: 0.157 msop/binary/addInt8 cost time: 0.283 ms√√√ all <op/binary/add> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":3,"skipped":0}

1. Test Case 140: BinaryOPTest\_addC4

Execute the test command:

./run\_test.out op/binary/addC4

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/addC4.op/binary/addC4 cost time: 0.600 ms√√√ all <op/binary/addC4> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 141: BinaryOPTest\_addInt8

Execute the test command:

./run\_test.out op/binary/addInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/addInt8.AddInt8 test zeropoint is zeroAddInt8 test zeropoint is not zeroop/binary/addInt8 cost time: 0.630 ms√√√ all <op/binary/addInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 142: BinaryOPTest\_atan2

Execute the test command:

./run\_test.out op/binary/atan2

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/atan2.running op/binary/atan2Int8.op/binary/atan2 cost time: 0.512 msop/binary/atan2Int8 cost time: 0.168 ms√√√ all <op/binary/atan2> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 143: BinaryOPTest\_atan2Int8

Execute the test command:

./run\_test.out op/binary/atan2Int8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/atan2Int8.op/binary/atan2Int8 cost time: 0.533 ms√√√ all <op/binary/atan2Int8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 144: BinaryOPTest\_biasadd

Execute the test command:

./run\_test.out op/binary/biasadd

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/biasadd.op/binary/biasadd cost time: 0.474 ms√√√ all <op/binary/biasadd> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 145: BinaryOPTest\_bitwise\_and

Execute the test command:

./run\_test.out op/binary/bitwise\_and

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/bitwise\_and.op/binary/bitwise\_and cost time: 0.430 ms√√√ all <op/binary/bitwise\_and> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 146: BinaryOPTest\_bitwise\_or

Execute the test command:

./run\_test.out op/binary/bitwise\_or

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/bitwise\_or.op/binary/bitwise\_or cost time: 0.401 ms√√√ all <op/binary/bitwise\_or> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 147: BinaryOPTest\_bitwise\_xor

Execute the test command:

./run\_test.out op/binary/bitwise\_xor

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/bitwise\_xor.op/binary/bitwise\_xor cost time: 0.463 ms√√√ all <op/binary/bitwise\_xor> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 148: BinaryOPTest\_broadcastShapeTest

Execute the test command:

./run\_test.out op/binary/broadcastShapeTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/broadcastShapeTest.op/binary/broadcastShapeTest cost time: 0.515 ms√√√ all <op/binary/broadcastShapeTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 149: BinaryOPTest\_divide

Execute the test command:

./run\_test.out op/binary/divide

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/divide.running op/binary/divideInt8.DivedeInt8 test zero point is zeroDivedeInt8 test zero point is not zeroop/binary/divide cost time: 0.421 msop/binary/divideInt8 cost time: 0.260 ms√√√ all <op/binary/divide> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 150: BinaryOPTest\_divideInt8

Execute the test command:

./run\_test.out op/binary/divideInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/divideInt8.DivedeInt8 test zero point is zeroDivedeInt8 test zero point is not zeroop/binary/divideInt8 cost time: 0.616 ms√√√ all <op/binary/divideInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 151: BinaryOPTest\_equal

Execute the test command:

./run\_test.out op/binary/equal

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/equal.op/binary/equal cost time: 0.559 ms√√√ all <op/binary/equal> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 152: BinaryOPTest\_floordiv

Execute the test command:

./run\_test.out op/binary/floordiv

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/floordiv.running op/binary/floordivInt8.op/binary/floordiv cost time: 0.508 msop/binary/floordivInt8 cost time: 0.171 ms√√√ all <op/binary/floordiv> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 153: BinaryOPTest\_floordivInt8

Execute the test command:

./run\_test.out op/binary/floordivInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/floordivInt8.op/binary/floordivInt8 cost time: 0.517 ms√√√ all <op/binary/floordivInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 154: BinaryOPTest\_floormod

Execute the test command:

./run\_test.out op/binary/floormod

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/floormod.running op/binary/floormodInt8.op/binary/floormod cost time: 0.450 msop/binary/floormodInt8 cost time: 0.164 ms√√√ all <op/binary/floormod> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 155: BinaryOPTest\_floormodInt8

Execute the test command:

./run\_test.out op/binary/floormodInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/floormodInt8.op/binary/floormodInt8 cost time: 0.533 ms√√√ all <op/binary/floormodInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 156: BinaryOPTest\_fuse\_relu

Execute the test command:

./run\_test.out op/binary/fuse\_relu

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/fuse\_relu.op/binary/fuse\_relu cost time: 0.406 ms√√√ all <op/binary/fuse\_relu> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 157: BinaryOPTest\_greater

Execute the test command:

./run\_test.out op/binary/greater

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/greater.running op/binary/greaterequal.op/binary/greater cost time: 0.552 msop/binary/greaterequal cost time: 0.147 ms√√√ all <op/binary/greater> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 158: BinaryOPTest\_greaterequal

Execute the test command:

./run\_test.out op/binary/greaterequal

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/greaterequal.op/binary/greaterequal cost time: 0.565 ms√√√ all <op/binary/greaterequal> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 159: BinaryOPTest\_less

Execute the test command:

./run\_test.out op/binary/less

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/less.running op/binary/lessequal.op/binary/less cost time: 0.639 msop/binary/lessequal cost time: 0.138 ms√√√ all <op/binary/less> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 160: BinaryOPTest\_lessequal

Execute the test command:

./run\_test.out op/binary/lessequal

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/lessequal.op/binary/lessequal cost time: 0.540 ms√√√ all <op/binary/lessequal> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 161: BinaryOPTest\_logicalor

Execute the test command:

./run\_test.out op/binary/logicalor

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/logicalor.op/binary/logicalor cost time: 0.481 ms√√√ all <op/binary/logicalor> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 162: BinaryOPTest\_maximum

Execute the test command:

./run\_test.out op/binary/maximum

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/maximum.running op/binary/maximumInt8.MaximumInt8 test zeropoint is zeroMaximumInt8 test zeropoint is not zeroop/binary/maximum cost time: 0.403 msop/binary/maximumInt8 cost time: 0.267 ms√√√ all <op/binary/maximum> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 163: BinaryOPTest\_maximumInt8

Execute the test command:

./run\_test.out op/binary/maximumInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/maximumInt8.MaximumInt8 test zeropoint is zeroMaximumInt8 test zeropoint is not zeroop/binary/maximumInt8 cost time: 0.580 ms√√√ all <op/binary/maximumInt8> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 164: BinaryOPTest\_minimum

Execute the test command:

./run\_test.out op/binary/minimum

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/minimum.running op/binary/minimumInt8.op/binary/minimum cost time: 0.410 msop/binary/minimumInt8 cost time: 0.255 ms√√√ all <op/binary/minimum> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 165: BinaryOPTest\_minimumInt8

Execute the test command:

./run\_test.out op/binary/minimumInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/minimumInt8.op/binary/minimumInt8 cost time: 0.592 ms√√√ all <op/binary/minimumInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 166: BinaryOPTest\_mod\_float

Execute the test command:

./run\_test.out op/binary/mod\_float

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/mod\_float.op/binary/mod\_float cost time: 0.552 ms√√√ all <op/binary/mod\_float> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 167: BinaryOPTest\_mod\_int

Execute the test command:

./run\_test.out op/binary/mod\_int

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/mod\_int.op/binary/mod\_int cost time: 0.429 ms√√√ all <op/binary/mod\_int> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 168: BinaryOPTest\_multiply

Execute the test command:

./run\_test.out op/binary/multiply

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/multiply.running op/binary/multiplyInt8.MultiplyInt8 test zeropoint is zeroMultiplyInt8 test zeropoint is not zeroop/binary/multiply cost time: 0.411 msop/binary/multiplyInt8 cost time: 0.286 ms√√√ all <op/binary/multiply> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 169: BinaryOPTest\_multiplyInt8

Execute the test command:

./run\_test.out op/binary/multiplyInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/multiplyInt8.MultiplyInt8 test zeropoint is zeroMultiplyInt8 test zeropoint is not zeroop/binary/multiplyInt8 cost time: 0.611 ms√√√ all <op/binary/multiplyInt8> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 170: BinaryOPTest\_notqual

Execute the test command:

./run\_test.out op/binary/notqual

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/notqual.op/binary/notqual cost time: 0.545 ms√√√ all <op/binary/notqual> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 171: BinaryOPTest\_pow

Execute the test command:

./run\_test.out op/binary/pow

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/pow.running op/binary/powInt8.op/binary/pow cost time: 0.536 msop/binary/powInt8 cost time: 0.195 ms√√√ all <op/binary/pow> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 172: BinaryOPTest\_powInt8

Execute the test command:

./run\_test.out op/binary/powInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/powInt8.op/binary/powInt8 cost time: 0.568 ms√√√ all <op/binary/powInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 173: BinaryOPTest\_sqdInt8

Execute the test command:

./run\_test.out op/binary/sqdInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/sqdInt8.SqdInt8 test zeropoint is zeroSqdInt8 test zeropoint is not zeroop/binary/sqdInt8 cost time: 0.625 ms√√√ all <op/binary/sqdInt8> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 174:BinaryOPTest\_squaredifference

Execute the test command:

./run\_test.out op/binary/squareddifference

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/squareddifference.op/binary/squareddifference cost time: 0.422 ms√√√ all <op/binary/squareddifference> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 175: BinaryOPTest\_subtract

Execute the test command:

./run\_test.out op/binary/subtract

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/subtract.running op/binary/subtractBroastTest.running op/binary/subtractInt8.SubtractInt8 test zeropoint is zeroSubtractInt8 test zeropoint is not zeroop/binary/subtract cost time: 0.483 msop/binary/subtractBroastTest cost time: 0.782 msop/binary/subtractInt8 cost time: 0.277 ms√√√ all <op/binary/subtract> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":3,"skipped":0}

1. Test Case 176: BinaryOPTest\_subtractBroastTest

Execute the test command:

./run\_test.out op/binary/subtractBroastTest

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/subtractBroastTest.op/binary/subtractBroastTest cost time: 1.083 ms√√√ all <op/binary/subtractBroastTest> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 177: BinaryOPTest\_subtractInt8

Execute the test command:

./run\_test.out op/binary/subtractInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/binary/subtractInt8.SubtractInt8 test zeropoint is zeroSubtractInt8 test zeropoint is not zeroop/binary/subtractInt8 cost time: 0.602 ms√√√ all <op/binary/subtractInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 178:RasterTest\_blitc4

Execute the test command:

./run\_test.out op/blitc4

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/blitc4.op/blitc4 cost time: 1.739 ms√√√ all <op/blitc4> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 179: CastTest\_cast

Execute the test command:

./run\_test.out op/cast

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/cast.op/cast cost time: 0.742 ms√√√ all <op/cast> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 180: ChannelShuffleTest\_channel\_shuffle

Execute the test command:

./run\_test.out op/channel\_shuffle

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/channel\_shuffle.op/channel\_shuffle cost time: 0.549 ms√√√ all <op/channel\_shuffle> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 181: ReLU6Test\_clamp

Execute the test command:

./run\_test.out op/clamp

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/clamp.op/clamp cost time: 0.382 ms√√√ all <op/clamp> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 182:Im2ColTest\_col2im

Execute the test command:

./run\_test.out op/col2im

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/col2im.op/col2im cost time: 0.548 ms√√√ all <op/col2im> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 183: ConcatTest\_concat

Execute the test command:

./run\_test.out op/concat

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/concat.op/concat cost time: 0.531 ms√√√ all <op/concat> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 184: ConvertTest\_convert

Execute the test command:

./run\_test.out op/convert

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/convert.op/convert cost time: 0.474 ms√√√ all <op/convert> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 185: ConvolutionTest\_conv2d

Execute the test command:

./run\_test.out op/convolution/conv2d

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/convolution/conv2d.op/convolution/conv2d cost time: 10645.861 ms√√√ all <op/convolution/conv2d> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 186: Convolution3DTest\_conv3d

Execute the test command:

./run\_test.out op/convolution/conv3d

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/convolution/conv3d.op/convolution/conv3d cost time: 7020.008 ms√√√ all <op/convolution/conv3d> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 187: ConvolutionTest\_conv\_group

Execute the test command:

./run\_test.out op/convolution/conv\_group

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/convolution/conv\_group.op/convolution/conv\_group cost time: 0.661 ms√√√ all <op/convolution/conv\_group> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 188: ConvolutionTest\_depthwise\_conv

Execute the test command:

./run\_test.out op/convolution/depthwise\_conv

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/convolution/depthwise\_conv.op/convolution/depthwise\_conv cost time: 15471.277 ms√√√ all <op/convolution/depthwise\_conv> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 189: ConvolutionTest\_sparse\_conv2d

Execute the test command:

./run\_test.out op/convolution/sparse\_conv2d

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/convolution/sparse\_conv2d.op/convolution/sparse\_conv2d cost time: 3409.214 ms√√√ all <op/convolution/sparse\_conv2d> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 190: ConvolutionTest\_weighti8i4conv2d

Execute the test command:

./run\_test.out op/convolution/weighti8i4conv2d

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/convolution/weighti8i4conv2d.op/convolution/weighti8i4conv2d cost time: 13063.774 ms√√√ all <op/convolution/weighti8i4conv2d> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 191: CropTest\_crop

Execute the test command:

./run\_test.out op/crop

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/crop.op/crop cost time: 12.788 ms√√√ all <op/crop> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 192: CumTest\_cumprod

Execute the test command:

./run\_test.out op/cumprod

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/cumprod.op/cumprod cost time: 0.683 ms√√√ all <op/cumprod> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 193: CumTest\_cumsum

Execute the test command:

./run\_test.out op/cumsum

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/cumsum.op/cumsum cost time: 0.672 ms√√√ all <op/cumsum> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 194: DepthToSpaceTest\_depthtospace

Execute the test command:

./run\_test.out op/depthtospace

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/depthtospace.op/depthtospace cost time: 0.557 ms√√√ all <op/depthtospace> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 195:EluTest\_elu

Execute the test command:

./run\_test.out op/elu

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/elu.op/elu cost time: 0.512 ms√√√ all <op/elu> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 196: ExpandDimsTest\_expand\_dims

Execute the test command:

./run\_test.out op/expand\_dims

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/expand\_dims.op/expand\_dims cost time: 0.419 ms√√√ all <op/expand\_dims> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 197: FillTest\_fill

Execute the test command:

./run\_test.out op/fill

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/fill.op/fill cost time: 0.433 ms√√√ all <op/fill> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 198: GatherTest\_gather

Execute the test command:

./run\_test.out op/gather

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/gather\_nd.running op/gather.running op/gatherv2.op/gather cost time: 0.268 msop/gather\_nd cost time: 1.387 msop/gatherv2 cost time: 0.073 ms√√√ all <op/gather> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":3,"skipped":0}

1. Test Case 199: GatherTest\_gather\_nd

Execute the test command:

./run\_test.out op/gather\_nd

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/gather\_nd.op/gather\_nd cost time: 1.422 ms√√√ all <op/gather\_nd> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 200: GatherV2Test\_gatherv2

Execute the test command:

./run\_test.out op/gatherv2

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/gatherv2.op/gatherv2 cost time: 0.455 ms√√√ all <op/gatherv2> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 201:HistogramTest\_histogram

Execute the test command:

./run\_test.out op/histogram

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/histogram.op/histogram cost time: 0.710 ms√√√ all <op/histogram> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 202:Im2ColTest\_im2col

Execute the test command:

./run\_test.out op/im2col

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/im2col.op/im2col cost time: 0.445 ms√√√ all <op/im2col> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 203: LayerNormTest\_layernorm

Execute the test command:

./run\_test.out op/layernorm

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/layernorm.op/layernorm cost time: 1.225 ms√√√ all <op/layernorm> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 204:LinSpaceTest\_linspace

Execute the test command:

./run\_test.out op/linspace

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/linspace.op/linspace cost time: 0.417 ms√√√ all <op/linspace> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 205: HybridConvSpeedTest\_DenseConv

Execute the test command:

./run\_test.out op/lowMemory/DenseConv

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/lowMemory/DenseConv.op/lowMemory/DenseConv cost time: 202817.109 ms√√√ all <op/lowMemory/DenseConv> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 206:HybridConvSpeedTest\_HybridConv

Execute the test command:

./run\_test.out op/lowMemory/HybridConv

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/lowMemory/HybridConv.op/lowMemory/HybridConv cost time: 63942.715 ms√√√ all <op/lowMemory/HybridConv> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 207: MatMulTest\_matmul

Execute the test command:

./run\_test.out op/matmul

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/matmul.running op/matmulBConst.op/matmul cost time: 2462.195 msop/matmulBConst cost time: 487.530 ms√√√ all <op/matmul> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test case 208: MatMulTest\_matmulBConst

Execute the test command:

./run\_test.out op/matmulBConst

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/matmulBConst.op/matmulBConst cost time: 478.272 ms√√√ all <op/matmulBConst> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 209: MomentsTest\_moments

Execute the test command:

./run\_test.out op/moments

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/moments.op/moments cost time: 0.613 ms√√√ all <op/moments> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 210: NormalizeTest\_normalize

Execute the test command:

./run\_test.out op/normalize

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/normalize.op/normalize cost time: 0.689 ms√√√ all <op/normalize> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 211: PadTest\_pad

Execute the test command:

./run\_test.out op/pad

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/pad.op/pad cost time: 0.500 ms√√√ all <op/pad> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 212: PReLUTest\_prelu

Execute the test command:

./run\_test.out op/prelu

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/prelu.running op/preluInt8.op/prelu cost time: 0.529 msop/preluInt8 cost time: 0.206 ms√√√ all <op/prelu> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test case 213: PReLUTest\_preluInt8

Execute the test command:

./run\_test.out op/preluInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/preluInt8.op/preluInt8 cost time: 0.629 ms√√√ all <op/preluInt8> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 214: RandomUniformTest\_randomuniform

Execute the test command:

./run\_test.out op/randomuniform

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/randomuniform.op/randomuniform cost time: 0.463 ms√√√ all <op/randomuniform> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 215: RangeTest\_range

Execute the test command:

./run\_test.out op/range

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/range.op/range cost time: 0.512 ms√√√ all <op/range> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 216:RankTest\_rank

Execute the test command:

./run\_test.out op/rank

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/rank.op/rank cost time: 0.386 ms√√√ all <op/rank> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 217: RasterTest\_raster

Execute the test command:

./run\_test.out op/raster

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/raster.op/raster cost time: 0.917 ms√√√ all <op/raster> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 218: ReductionTest\_reduce\_max

Execute the test command:

./run\_test.out op/reduction/reduce\_max

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/reduction/reduce\_max.op/reduction/reduce\_max cost time: 0.465 ms√√√ all <op/reduction/reduce\_max> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 219: ReductionTest\_reduce\_mean

Execute the test command:

./run\_test.out op/reduction/reduce\_mean

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/reduction/reduce\_mean.op/reduction/reduce\_mean cost time: 0.457 ms√√√ all <op/reduction/reduce\_mean> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 220: ReductionTest\_reduce\_min

Execute the test command:

./run\_test.out op/reduction/reduce\_min

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/reduction/reduce\_min.op/reduction/reduce\_min cost time: 0.464 ms√√√ all <op/reduction/reduce\_min> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 221: ReductionTest\_reduce\_prod

Execute the test command:

./run\_test.out op/reduction/reduce\_prod

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/reduction/reduce\_prod.op/reduction/reduce\_prod cost time: 0.437 ms√√√ all <op/reduction/reduce\_prod> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 222: ReductionTest\_reduce\_sum

Execute the test command:

./run\_test.out op/reduction/reduce\_sum

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/reduction/reduce\_sum.running op/reduction/reduce\_sum\_multi.op/reduction/reduce\_sum cost time: 0.478 msop/reduction/reduce\_sum\_multi cost time: 0.167 ms√√√ all <op/reduction/reduce\_sum> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 223: ReductionTest\_reduce\_sum\_multi

Execute the test command:

./run\_test.out op/reduction/reduce\_sum\_multi

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/reduction/reduce\_sum\_multi.op/reduction/reduce\_sum\_multi cost time: 0.502 ms√√√ all <op/reduction/reduce\_sum\_multi> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 224: ReLUTest\_relu

Execute the test command:

./run\_test.out op/relu

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/relu6.running op/relu.op/relu cost time: 0.062 msop/relu6 cost time: 0.400 ms√√√ all <op/relu> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test case 225: ReLU6Test\_relu6

Execute the test command:

./run\_test.out op/relu6

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/relu6.op/relu6 cost time: 0.401 ms√√√ all <op/relu6> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 226: ReshapeTest\_nc4hw4

Execute the test command:

./run\_test.out op/reshape/nc4hw4

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/reshape/nc4hw4.op/reshape/nc4hw4 cost time: 0.514 ms√√√ all <op/reshape/nc4hw4> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 227: ReshapeTest\_nchw

Execute the test command:

./run\_test.out op/reshape/nchw

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/reshape/nchw.op/reshape/nchw cost time: 0.446 ms√√√ all <op/reshape/nchw> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 228:ReshapeTest\_nhwc

Execute the test command:

./run\_test.out op/reshape/nhwc

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/reshape/nhwc.op/reshape/nhwc cost time: 0.430 ms√√√ all <op/reshape/nhwc> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 229: ResizeTest\_resize

Execute the test command:

./run\_test.out op/resize

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/resize.op/resize cost time: 0.607 ms√√√ all <op/resize> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 230: ReverseTest\_reverse

Execute the test command:

./run\_test.out op/reverse

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/reverse.op/reverse cost time: 0.812 ms√√√ all <op/reverse> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 231: SequenceGRUTest\_SequenceGRU

Execute the test command:

./run\_test.out op/rnn/SequenceGRU

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/rnn/SequenceGRU.op/rnn/SequenceGRU cost time: 6.733 ms√√√ all <op/rnn/SequenceGRU> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 232: ScaleTest\_scale

Execute the test command:

./run\_test.out op/scale

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/scale.running op/scaleInt8.op/scale cost time: 0.576 msop/scaleInt8 cost time: 0.187 ms√√√ all <op/scale> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 233: ScaleTest\_scaleInt8

Execute the test command:

./run\_test.out op/scaleInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/scaleInt8.op/scaleInt8 cost time: 0.610 ms√√√ all <op/scaleInt8> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 234: SelectTest\_select

Execute the test command:

./run\_test.out op/select

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/select.op/select cost time: 1.369 ms√√√ all <op/select> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 235: SeLUTest\_selu

Execute the test command:

./run\_test.out op/selu

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/selu.op/selu cost time: 0.941 ms√√√ all <op/selu> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 236: SetDiff1DTest\_setdiff1d

Execute the test command:

./run\_test.out op/setdiff1d

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/setdiff1d.op/setdiff1d cost time: 0.412 ms√√√ all <op/setdiff1d> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 237: ShapeTest\_shape

Execute the test command:

./run\_test.out op/shape

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/shape.op/shape cost time: 0.361 ms√√√ all <op/shape> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 238: SizeTest\_size

Execute the test command:

./run\_test.out op/size

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/size.op/size cost time: 0.471 ms√√√ all <op/size> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 239: SoftmaxTest\_softmax

Execute the test command:

./run\_test.out op/softmax

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/softmax.running op/softmaxInt8.op/softmax cost time: 63.487 msop/softmaxInt8 cost time: 0.416 ms√√√ all <op/softmax> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test case 240: SoftmaxTest\_softmaxInt8

Execute the test command:

./run\_test.out op/softmaxInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/softmaxInt8.op/softmaxInt8 cost time: 0.784 ms√√√ all <op/softmaxInt8> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 241:SoftplusTest\_softplus

Execute the test command:

./run\_test.out op/softplus

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/softplus.op/softplus cost time: 0.505 ms√√√ all <op/softplus> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 242:SoftsignTest\_softsign

Execute the test command:

./run\_test.out op/softsign

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/softsign.op/softsign cost time: 0.547 ms√√√ all <op/softsign> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 243: SortTest\_sort

Execute the test command:

./run\_test.out op/sort

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/sort.op/sort cost time: 1.108 ms√√√ all <op/sort> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 244: SpaceToBatchNDTest\_space\_to\_batch\_nd

Execute the test command:

./run\_test.out op/space\_to\_batch\_nd

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/space\_to\_batch\_nd.op/space\_to\_batch\_nd cost time: 0.653 ms√√√ all <op/space\_to\_batch\_nd> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 245: SpaceToDepthTest\_spacetodepth

Execute the test command:

./run\_test.out op/spacetodepth

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/spacetodepth.op/spacetodepth cost time: 0.539 ms√√√ all <op/spacetodepth> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 246:SplitTest\_split

Execute the test command:

./run\_test.out op/split

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/split.running op/splitc4.op/split cost time: 0.472 msop/splitc4 cost time: 0.473 ms√√√ all <op/split> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 247:StridedSliceTest\_splitc4

Execute the test command:

./run\_test.out op/splitc4

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/splitc4.op/splitc4 cost time: 0.804 ms√√√ all <op/splitc4> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 248: SqueezeTest\_squeeze

Execute the test command:

./run\_test.out op/squeeze

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/squeeze.Cannot Squeeze dim[1], 1 is expected, 2 is got. input shape: \*\*Tensor shape\*\*: 2, 2,op/squeeze cost time: 0.450 ms√√√ all <op/squeeze> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 249: StackTest\_stack

Execute the test command:

./run\_test.out op/stack

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/stack.op/stack cost time: 0.447 ms√√√ all <op/stack> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 250: StridedSliceTest\_stridedslice

Execute the test command:

./run\_test.out op/stridedslice

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/stridedslice.op/stridedslice cost time: 1.190 ms√√√ all <op/stridedslice> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 251: SvdTest\_svd

Execute the test command:

./run\_test.out op/svd

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/svd.run, 37, cost time: 0.169000 msrun, 136, cost time: 0.054000 msop/svd cost time: 0.529 ms√√√ all <op/svd> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 252:TanHTest\_tanh

Execute the test command:

./run\_test.out op/tanh

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/tanh.op/tanh cost time: 0.428 ms√√√ all <op/tanh> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 253: ThresholdTest\_threshold

Execute the test command:

./run\_test.out op/threshold

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/threshold.op/threshold cost time: 0.493 ms√√√ all <op/threshold> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 254: TileTest\_tile

Execute the test command:

./run\_test.out op/tile

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/tile.op/tile cost time: 0.628 ms√√√ all <op/tile> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 255: TransposeTest\_transpose

Execute the test command:

./run\_test.out op/transpose

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/transpose.op/transpose cost time: 0.406 ms√√√ all <op/transpose> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 256: UnaryTest\_abs

Execute the test command:

./run\_test.out op/unary/abs

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/abs.running op/unary/absInt8.op/unary/abs cost time: 0.458 msop/unary/absInt8 cost time: 0.129 ms√√√ all <op/unary/abs> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 257: UnaryTest\_absInt8

Execute the test command:

./run\_test.out op/unary/absInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/absInt8.op/unary/absInt8 cost time: 0.484 ms√√√ all <op/unary/absInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 258: UnaryTest\_acos

Execute the test command:

./run\_test.out op/unary/acos

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/acos.running op/unary/acosh.running op/unary/acosInt8.running op/unary/acoshInt8.op/unary/acos cost time: 0.439 msop/unary/acosInt8 cost time: 0.050 msop/unary/acosh cost time: 0.089 msop/unary/acoshInt8 cost time: 0.178 ms√√√ all <op/unary/acos> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":4,"skipped":0}

1. Test Case 259: UnaryTest\_acosInt8

Execute the test command:

./run\_test.out op/unary/acosInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/acosInt8.op/unary/acosInt8 cost time: 0.494 ms√√√ all <op/unary/acosInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 260: UnaryTest\_acosh

Execute the test command:

./run\_test.out op/unary/acosh

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/acosh.running op/unary/acoshInt8.op/unary/acosh cost time: 0.461 msop/unary/acoshInt8 cost time: 0.183 ms√√√ all <op/unary/acosh> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 261: UnaryTest\_acoshInt8

Execute the test command:

./run\_test.out op/unary/acoshInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/acoshInt8.op/unary/acoshInt8 cost time: 0.571 ms√√√ all <op/unary/acoshInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 262: UnaryTest\_asin

Execute the test command:

./run\_test.out op/unary/asin

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/asin.running op/unary/asinh.running op/unary/asinInt8.running op/unary/asinhInt8.op/unary/asin cost time: 0.435 msop/unary/asinInt8 cost time: 0.052 msop/unary/asinh cost time: 0.094 msop/unary/asinhInt8 cost time: 0.216 ms√√√ all <op/unary/asin> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":4,"skipped":0}

1. Test Case 263: UnaryTest\_asinInt8

Execute the test command:

./run\_test.out op/unary/asinInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/asinInt8.op/unary/asinInt8 cost time: 0.426 ms√√√ all <op/unary/asinInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 264: UnaryTest\_asinh

Execute the test command:

./run\_test.out op/unary/asinh

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/asinh.running op/unary/asinhInt8.op/unary/asinh cost time: 0.508 msop/unary/asinhInt8 cost time: 0.200 ms√√√ all <op/unary/asinh> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 265: UnaryTest\_asinhInt8

Execute the test command:

./run\_test.out op/unary/asinhInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/asinhInt8.op/unary/asinhInt8 cost time: 0.610 ms√√√ all <op/unary/asinhInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 266: UnaryTest\_atan

Execute the test command:

./run\_test.out op/unary/atan

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/atan.running op/unary/atanh.running op/unary/atanInt8.running op/unary/atanhInt8.op/unary/atan cost time: 0.466 msop/unary/atanInt8 cost time: 0.199 msop/unary/atanh cost time: 0.083 msop/unary/atanhInt8 cost time: 0.134 ms√√√ all <op/unary/atan> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":4,"skipped":0}

1. Test Case 267: UnaryTest\_atanInt8

Execute the test command:

./run\_test.out op/unary/atanInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/atanInt8.op/unary/atanInt8 cost time: 0.520 ms√√√ all <op/unary/atanInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 268: UnaryTest\_atanh

Execute the test command:

./run\_test.out op/unary/atanh

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/atanh.running op/unary/atanhInt8.op/unary/atanh cost time: 0.437 msop/unary/atanhInt8 cost time: 0.217 ms√√√ all <op/unary/atanh> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 269: UnaryTest\_atanhInt8

Execute the test command:

./run\_test.out op/unary/atanhInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/atanhInt8.op/unary/atanhInt8 cost time: 0.596 ms√√√ all <op/unary/atanhInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 270: UnaryTest\_ceil

Execute the test command:

./run\_test.out op/unary/ceil

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/ceil.op/unary/ceil cost time: 0.424 ms√√√ all <op/unary/ceil> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 271:UnaryTest\_cos

Execute the test command:

./run\_test.out op/unary/cos

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/cos.running op/unary/cosh.running op/unary/cosInt8.running op/unary/coshInt8.op/unary/cos cost time: 0.432 msop/unary/cosInt8 cost time: 0.199 msop/unary/cosh cost time: 0.083 msop/unary/coshInt8 cost time: 0.132 ms√√√ all <op/unary/cos> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":4,"skipped":0}

1. Test Case 272: UnaryTest\_cosInt8

Execute the test command:

./run\_test.out op/unary/cosInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/cosInt8.op/unary/cosInt8 cost time: 0.541 ms√√√ all <op/unary/cosInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 273: UnaryTest\_cosh

Execute the test command:

./run\_test.out op/unary/cosh

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/cosh.running op/unary/coshInt8.op/unary/cosh cost time: 0.415 msop/unary/coshInt8 cost time: 0.196 ms√√√ all <op/unary/cosh> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 274: UnaryTest\_coshInt8

Execute the test command:

./run\_test.out op/unary/coshInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/coshInt8.op/unary/coshInt8 cost time: 0.537 ms√√√ all <op/unary/coshInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 275: UnaryTest\_erf

Execute the test command:

./run\_test.out op/unary/erf

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/erf.running op/unary/erfc.running op/unary/erfinv.running op/unary/erfInt8.running op/unary/erfcInt8.running op/unary/erfinvInt8.op/unary/erf cost time: 0.447 msop/unary/erfInt8 cost time: 0.214 msop/unary/erfc cost time: 0.067 msop/unary/erfcInt8 cost time: 0.295 msop/unary/erfinv cost time: 0.056 msop/unary/erfinvInt8 cost time: 0.103 ms√√√ all <op/unary/erf> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":6,"skipped":0}

1. Test Case 276: UnaryTest\_erfInt8

Execute the test command:

./run\_test.out op/unary/erfInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/erfInt8.op/unary/erfInt8 cost time: 0.557 ms√√√ all <op/unary/erfInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 277: UnaryTest\_erfc

Execute the test command:

./run\_test.out op/unary/erfc

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/erfc.running op/unary/erfcInt8.op/unary/erfc cost time: 0.430 msop/unary/erfcInt8 cost time: 0.199 ms√√√ all <op/unary/erfc> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 278: UnaryTest\_erfcInt8

Execute the test command:

./run\_test.out op/unary/erfcInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/erfcInt8.op/unary/erfcInt8 cost time: 0.605 ms√√√ all <op/unary/erfcInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 279: UnaryTest\_erfinv

Execute the test command:

./run\_test.out op/unary/erfinv

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/erfinv.running op/unary/erfinvInt8.op/unary/erfinv cost time: 0.445 msop/unary/erfinvInt8 cost time: 0.188 ms√√√ all <op/unary/erfinv> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 280: UnaryTest\_erfinvInt8

Execute the test command:

./run\_test.out op/unary/erfinvInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/erfinvInt8.op/unary/erfinvInt8 cost time: 0.572 ms√√√ all <op/unary/erfinvInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 281: UnaryTest\_exp

Execute the test command:

./run\_test.out op/unary/exp

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/exp.running op/unary/expm1.running op/unary/expInt8.running op/unary/expm1Int8.op/unary/exp cost time: 0.391 msop/unary/expInt8 cost time: 0.223 msop/unary/expm1 cost time: 0.059 msop/unary/expm1Int8 cost time: 0.052 ms√√√ all <op/unary/exp> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":4,"skipped":0}

1. Test Case 282: UnaryTest\_expInt8

Execute the test command:

./run\_test.out op/unary/expInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/expInt8.op/unary/expInt8 cost time: 0.559 ms√√√ all <op/unary/expInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 283:UnaryTest\_expm1

Execute the test command:

./run\_test.out op/unary/expm1

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/expm1.running op/unary/expm1Int8.op/unary/expm1 cost time: 0.434 msop/unary/expm1Int8 cost time: 0.062 ms√√√ all <op/unary/expm1> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 284: UnaryTest\_expm1Int8

Execute the test command:

./run\_test.out op/unary/expm1Int8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/expm1Int8.op/unary/expm1Int8 cost time: 0.395 ms√√√ all <op/unary/expm1Int8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 285: UnaryTest\_floor

Execute the test command:

./run\_test.out op/unary/floor

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/floor.op/unary/floor cost time: 0.427 ms√√√ all <op/unary/floor> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 286: UnaryTest\_gelu

Execute the test command:

./run\_test.out op/unary/gelu

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/gelu.running op/unary/gelustandard.running op/unary/geluInt8.op/unary/gelu cost time: 0.417 msop/unary/geluInt8 cost time: 0.197 msop/unary/gelustandard cost time: 0.126 ms√√√ all <op/unary/gelu> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":3,"skipped":0}

1. Test Case 287: UnaryTest\_geluInt8

Execute the test command:

./run\_test.out op/unary/geluInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/geluInt8.op/unary/geluInt8 cost time: 0.508 ms√√√ all <op/unary/geluInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 288:UnaryTest\_gelustandard

Execute the test command:

./run\_test.out op/unary/gelustandard

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/gelustandard.op/unary/gelustandard cost time: 0.513 ms√√√ all <op/unary/gelustandard> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 289: UnaryTest\_log

Execute the test command:

./run\_test.out op/unary/log

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/log.running op/unary/log1p.running op/unary/logInt8.running op/unary/log1pInt8.op/unary/log cost time: 0.448 msop/unary/log1p cost time: 0.062 msop/unary/log1pInt8 cost time: 0.093 msop/unary/logInt8 cost time: 0.205 ms√√√ all <op/unary/log> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":4,"skipped":0}

1. Test Case 290: UnaryTest\_log1p

Execute the test command:

./run\_test.out op/unary/log1p

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/log1p.running op/unary/log1pInt8.op/unary/log1p cost time: 0.432 msop/unary/log1pInt8 cost time: 0.209 ms√√√ all <op/unary/log1p> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 291: UnaryTest\_log1pInt8

Execute the test command:

./run\_test.out op/unary/log1pInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/log1pInt8.op/unary/log1pInt8 cost time: 0.590 ms√√√ all <op/unary/log1pInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 292: UnaryTest\_logInt8

Execute the test command:

./run\_test.out op/unary/logInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/logInt8.op/unary/logInt8 cost time: 0.551 ms√√√ all <op/unary/logInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 293: UnaryTest\_negative

Execute the test command:

./run\_test.out op/unary/negative

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/negative.running op/unary/negativeInt8.op/unary/negative cost time: 0.465 msop/unary/negativeInt8 cost time: 0.140 ms√√√ all <op/unary/negative> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 294: UnaryTest\_negativeInt8

Execute the test command:

./run\_test.out op/unary/negativeInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/negativeInt8.op/unary/negativeInt8 cost time: 0.500 ms√√√ all <op/unary/negativeInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 295: UnaryTest\_reciprocal

Execute the test command:

./run\_test.out op/unary/reciprocal

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/reciprocal.running op/unary/reciprocalInt8.op/unary/reciprocal cost time: 0.453 msop/unary/reciprocalInt8 cost time: 0.219 ms√√√ all <op/unary/reciprocal> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 296: UnaryTest\_reciprocalInt8

Execute the test command:

./run\_test.out op/unary/reciprocalInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/reciprocalInt8.op/unary/reciprocalInt8 cost time: 0.518 ms√√√ all <op/unary/reciprocalInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 297: UnaryTest\_round

Execute the test command:

./run\_test.out op/unary/round

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/round.op/unary/round cost time: 0.419 ms√√√ all <op/unary/round> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 298: UnaryTest\_rsqrt

Execute the test command:

./run\_test.out op/unary/rsqrt

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/rsqrt.op/unary/rsqrt cost time: 0.382 ms√√√ all <op/unary/rsqrt> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 299: UnaryTest\_sigmoid

Execute the test command:

./run\_test.out op/unary/sigmoid

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/sigmoid.running op/unary/sigmoidInt8.op/unary/sigmoid cost time: 0.434 msop/unary/sigmoidInt8 cost time: 0.187 ms√√√ all <op/unary/sigmoid> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test case 300: UnaryTest\_sigmoidInt8

Execute the test command:

./run\_test.out op/unary/sigmoidInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/sigmoidInt8.op/unary/sigmoidInt8 cost time: 0.634 ms√√√ all <op/unary/sigmoidInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 301: UnaryTest\_sign

Execute the test command:

./run\_test.out op/unary/sign

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/sign.running op/unary/signInt8.op/unary/sign cost time: 0.480 msop/unary/signInt8 cost time: 0.133 ms√√√ all <op/unary/sign> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 302: UnaryTest\_signInt8

Execute the test command:

./run\_test.out op/unary/signInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/signInt8.op/unary/signInt8 cost time: 0.490 ms√√√ all <op/unary/signInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 303: UnaryTest\_sin

Execute the test command:

./run\_test.out op/unary/sin

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/sin.running op/unary/sinh.running op/unary/sinInt8.running op/unary/sinhInt8.op/unary/sin cost time: 0.441 msop/unary/sinInt8 cost time: 0.284 msop/unary/sinh cost time: 0.081 msop/unary/sinhInt8 cost time: 0.131 ms√√√ all <op/unary/sin> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":4,"skipped":0}

1. Test Case 304: UnaryTest\_sinInt8

Execute the test command:

./run\_test.out op/unary/sinInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/sinInt8.op/unary/sinInt8 cost time: 0.568 ms√√√ all <op/unary/sinInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 305: UnaryTest\_sinh

Execute the test command:

./run\_test.out op/unary/sinh

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/sinh.running op/unary/sinhInt8.op/unary/sinh cost time: 0.439 msop/unary/sinhInt8 cost time: 0.209 ms√√√ all <op/unary/sinh> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 306: UnaryTest\_sinhInt8

Execute the test command:

./run\_test.out op/unary/sinhInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/sinhInt8.op/unary/sinhInt8 cost time: 0.540 ms√√√ all <op/unary/sinhInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 307: UnaryTest\_sqrt

Execute the test command:

./run\_test.out op/unary/sqrt

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/sqrt.running op/unary/sqrtInt8.op/unary/sqrt cost time: 0.412 msop/unary/sqrtInt8 cost time: 0.203 ms√√√ all <op/unary/sqrt> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 308: UnaryTest\_sqrtInt8

Execute the test command:

./run\_test.out op/unary/sqrtInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/sqrtInt8.op/unary/sqrtInt8 cost time: 0.517 ms√√√ all <op/unary/sqrtInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 309: UnaryTest\_square

Execute the test command:

./run\_test.out op/unary/square

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/square.running op/unary/squareInt8.op/unary/square cost time: 0.511 msop/unary/squareInt8 cost time: 0.178 ms√√√ all <op/unary/square> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 310: UnaryTest\_squareInt8

Execute the test command:

./run\_test.out op/unary/squareInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/squareInt8.op/unary/squareInt8 cost time: 0.521 ms√√√ all <op/unary/squareInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 311: UnaryTest\_tan

Execute the test command:

./run\_test.out op/unary/tan

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/tan.running op/unary/tanh.running op/unary/tanInt8.running op/unary/tanhInt8.op/unary/tan cost time: 0.431 msop/unary/tanInt8 cost time: 0.052 msop/unary/tanh cost time: 0.063 msop/unary/tanhInt8 cost time: 0.274 ms√√√ all <op/unary/tan> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":4,"skipped":0}

1. Test Case 312: UnaryTest\_tanInt8

Execute the test command:

./run\_test.out op/unary/tanInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/tanInt8.op/unary/tanInt8 cost time: 0.453 ms√√√ all <op/unary/tanInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 313: UnaryTest\_tanh

Execute the test command:

./run\_test.out op/unary/tanh

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/tanh.running op/unary/tanhInt8.op/unary/tanh cost time: 0.386 msop/unary/tanhInt8 cost time: 0.215 ms√√√ all <op/unary/tanh> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test Case 314: UnaryTest\_tanhInt8

Execute the test command:

./run\_test.out op/unary/tanhInt8

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unary/tanhInt8.op/unary/tanhInt8 cost time: 0.522 ms√√√ all <op/unary/tanhInt8> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 315: UniqueTest\_unique

Execute the test command:

./run\_test.out op/unique

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unique.op/unique cost time: 0.439 ms√√√ all <op/unique> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 316: UnstackTest\_unstack

Execute the test command:

./run\_test.out op/unstack

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/unstack.op/unstack cost time: 0.433 ms√√√ all <op/unstack> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 317: WhereTest\_where

Execute the test command:

./run\_test.out op/where

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/where.op/where cost time: 0.447 ms√√√ all <op/where> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 318:ZerosLikeTest\_zeroslike

Execute the test command:

./run\_test.out op/zeroslike

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running op/zeroslike.op/zeroslike cost time: 1.225 ms√√√ all <op/zeroslike> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 319:BinarySpeedTest\_Binary

Execute the test command:

./run\_test.out speed/Binary

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/Binary.Test Binary for 5001, 1001 x 100SubTest, 54, cost time: 715.540039 msAddTest, 67, cost time: 739.310059 msSubScalarTest, 28, cost time: 501.241028 msAddScalarTest, 41, cost time: 474.992035 msspeed/Binary cost time: 2609.926 ms√√√ all <speed/Binary> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 320: ConvInt8Test\_depthwise

Execute the test command:

./run\_test.out speed/ConvInt8/depthwise

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/ConvInt8/depthwise.Depthwise Speed Test Strides=1.DepthwiseConvInt8 Speed: input = (1x16x144x112), kernel=(16x3x3), avg time=8573.767578DepthwiseConvInt8 Speed: input = (1x16x144x112), kernel=(16x3x3), avg time=2103.665039Depthwise Speed Test Strides=2DepthwiseConvInt8 Speed: input = (1x16x144x112), kernel=(16x3x3), avg time=648.001038speed/ConvInt8/depthwise cost time: 11721.113 ms√√√ all <speed/ConvInt8/depthwise> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 321: ConvSpeedInt8Test\_im2col\_gemm

Execute the test command:

./run\_test.out speed/ConvInt8/im2col\_gemm

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/ConvInt8/im2col\_gemm.Bits=8ConvInt8 result Error: 46 -> 45ConvInt8 (im2col + gemm) kernel=(1x1) input=(1x128x28x28) output=(1x128x30x30) stride=(1x1), avg time = 20.288101ConvInt8 (im2col + gemm) kernel=(3x3) input=(1x128x28x28) output=(1x128x28x28) stride=(1x1), avg time = 147.518909ConvInt8 (im2col + gemm) kernel=(5x5) input=(1x128x28x28) output=(1x128x26x26) stride=(1x1), avg time = 351.702515ConvInt8 (im2col + gemm) kernel=(1x7) input=(1x128x28x28) output=(1x128x30x24) stride=(1x1), avg time = 105.519910ConvInt8 result Error: 104 -> 105ConvInt8 (im2col + gemm) kernel=(7x1) input=(1x128x28x28) output=(1x128x24x30) stride=(1x1), avg time = 105.939905ConvInt8 result Error: 19 -> 20ConvInt8 (im2col + gemm) kernel=(1x1) input=(1x128x412x129) output=(1x128x414x131) stride=(1x1), avg time = 1235.240820Bits=7ConvInt8 result Error: -8 -> -9ConvInt8 (im2col + gemm) kernel=(1x1) input=(1x128x28x28) output=(1x128x30x30) stride=(1x1), avg time = 20.279401ConvInt8 result Error: 41 -> 40ConvInt8 (im2col + gemm) kernel=(3x3) input=(1x128x28x28) output=(1x128x28x28) stride=(1x1), avg time = 147.702551ConvInt8 result Error: 43 -> 42ConvInt8 (im2col + gemm) kernel=(5x5) input=(1x128x28x28) output=(1x128x26x26) stride=(1x1), avg time = 351.619409ConvInt8 result Error: 74 -> 73ConvInt8 (im2col + gemm) kernel=(1x7) input=(1x128x28x28) output=(1x128x30x24) stride=(1x1), avg time = 105.983704ConvInt8 result Error: 116 -> 115ConvInt8 (im2col + gemm) kernel=(7x1) input=(1x128x28x28) output=(1x128x24x30) stride=(1x1), avg time = 105.763354ConvInt8 result Error: 63 -> 62ConvInt8 (im2col + gemm) kernel=(1x1) input=(1x128x412x129) output=(1x128x414x131) stride=(1x1), avg time = 1234.020898speed/ConvInt8/im2col\_gemm cost time: 109032.102 ms√√√ all <speed/ConvInt8/im2col\_gemm> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 322: ConvSpeedInt8Test\_multi\_instance

Execute the test command:

./run\_test.out speed/ConvInt8/multi\_instance

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/ConvInt8/multi\_instance.Run 4 instanceConvInt8 (im2col + gemm) kernel=(3x3) input=(1x32x204x215) output=(1x56x210x219) stride=(1x1), avg time = 971.819629ConvInt8 (im2col + gemm) kernel=(3x3) input=(1x32x204x215) output=(1x56x210x219) stride=(1x1), avg time = 972.296680ConvInt8 (im2col + gemm) kernel=(3x3) input=(1x32x204x215) output=(1x56x210x219) stride=(1x1), avg time = 974.314844ConvInt8 (im2col + gemm) kernel=(3x3) input=(1x32x204x215) output=(1x56x210x219) stride=(1x1), avg time = 977.861719Run 1 instanceConvInt8 (im2col + gemm) kernel=(3x3) input=(1x32x204x215) output=(1x56x210x219) stride=(1x1), avg time = 979.168262speed/ConvInt8/multi\_instance cost time: 39146.168 ms√√√ all <speed/ConvInt8/multi\_instance> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 323: ConvInt8Test\_winograd\_speed

Execute the test command:

./run\_test.out speed/ConvInt8/winograd

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/ConvInt8/winograd.ConvInt8 Winograd 3x3,alpha=4 input=(1x128x28x28) kernel=(128x128x3x3) avg time = 82.46ConvInt8 Winograd 3x3,alpha=4 input=(1x128x28x28) kernel=(128x128x3x3) avg time = 162.90ConvInt8 Winograd 3x3,alpha=4 input=(1x128x28x28) kernel=(128x128x3x3) avg time = 245.18ConvInt8 Winograd 3x3,alpha=6 input=(1x128x28x28) kernel=(128x128x3x3) avg time = 47.54ConvInt8 Winograd 3x3,alpha=6 input=(1x128x28x28) kernel=(128x128x3x3) avg time = 94.18ConvInt8 Winograd 3x3,alpha=6 input=(1x128x28x28) kernel=(128x128x3x3) avg time = 142.36speed/ConvInt8/winograd cost time: 19519.096 ms√√√ all <speed/ConvInt8/winograd> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 324:HybridConvSpeedTest\_HybridConv

Execute the test command:

./run\_test.out speed/HybridConv

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/HybridConv.Test for 8 bitsLow memory HybridConv test: input=(23x2048x1x1) output=(23x512x1x1) avg time = 30.912201Low memory HybridConv test: input=(13x2048x1x1) output=(13x512x1x1) avg time = 19.126651Low memory HybridConv test: input=(23x1496x1x1) output=(23x256x1x1) avg time = 12.089951Low memory HybridConv test: input=(13x1496x1x1) output=(13x256x1x1) avg time = 6.759800Test for 4 bitsLow memory HybridConv test: input=(23x2048x1x1) output=(23x512x1x1) avg time = 30.585602Low memory HybridConv test: input=(13x2048x1x1) output=(13x512x1x1) avg time = 18.507751Low memory HybridConv test: input=(23x1496x1x1) output=(23x256x1x1) avg time = 11.093450Low memory HybridConv test: input=(13x1496x1x1) output=(13x256x1x1) avg time = 6.119200speed/HybridConv cost time: 6019.930 ms√√√ all <speed/HybridConv> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test Case 325: ConvolutionTest\_conv2d

Execute the test command:

./run\_test.out speed/convolution/conv2d

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/convolution/conv2d.kernel=(1x1) input=(1x128x28x28) output=(1x128x30x30) stride=(1x1), avg time = 13.218950kernel=(3x3) input=(1x128x28x28) output=(1x128x28x28) stride=(1x1), avg time = 27.649200kernel=(5x5) input=(1x128x28x28) output=(1x128x26x26) stride=(1x1), avg time = 54.195752kernel=(1x7) input=(1x128x28x28) output=(1x128x30x24) stride=(1x1), avg time = 95.430603kernel=(7x1) input=(1x128x28x28) output=(1x128x24x30) stride=(1x1), avg time = 95.263153speed/convolution/conv2d cost time: 19833.186 ms√√√ all <speed/convolution/conv2d> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 326: ImageProcessSpeedTest\_I420\_to\_rgb

Execute the test command:

./run\_test.out speed/cv/image\_process/I420\_to\_rgb

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/cv/image\_process/I420\_to\_rgb.run, 1046, cost time: 356.172028 msspeed/cv/image\_process/I420\_to\_rgb cost time: 466.800 ms√√√ all <speed/cv/image\_process/I420\_to\_rgb> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 327: ImageProcessSpeedTest\_bgr\_to\_bgr

Execute the test command:

./run\_test.out speed/cv/image\_process/bgr\_to\_bgr

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/cv/image\_process/bgr\_to\_bgr.run, 376, cost time: 67.166000 msrunning speed/cv/image\_process/bgr\_to\_bgr\_blitter.run, 917, cost time: 52.545002 msspeed/cv/image\_process/bgr\_to\_bgr cost time: 104.494 msspeed/cv/image\_process/bgr\_to\_bgr\_blitter cost time: 82.420 ms√√√ all <speed/cv/image\_process/bgr\_to\_bgr> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test case 328: ImageProcessSpeedTest\_bgr\_to\_bgr\_blitter

Execute the test command:

./run\_test.out speed/cv/image\_process/bgr\_to\_bgr\_blitter

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running speed/cv/image\_process/bgr\_to\_bgr\_blitter.run, 917, cost time: 53.096001 msspeed/cv/image\_process/bgr\_to\_bgr\_blitter cost time: 88.396 ms√√√ all <speed/cv/image\_process/bgr\_to\_bgr\_blitter> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 329: ImageProcessSpeedTest\_bgr\_to\_gray

Execute the test command:

./run\_test.out speed/cv/image\_process/bgr\_to\_gray

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/cv/image\_process/bgr\_to\_gray.run, 249, cost time: 38.559002 msspeed/cv/image\_process/bgr\_to\_gray cost time: 63.031 ms√√√ all <speed/cv/image\_process/bgr\_to\_gray> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 330: ImageProcessSpeedTest\_gray\_to\_gray

Execute the test command:

./run\_test.out speed/cv/image\_process/gray\_to\_gray

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/cv/image\_process/gray\_to\_gray.run, 46, cost time: 56.199001 msrunning speed/cv/image\_process/gray\_to\_gray\_bilinear\_transorm.run, 105, cost time: 293.423004 msrunning speed/cv/image\_process/gray\_to\_gray\_nearest\_transorm.run, 163, cost time: 31.268002 msrunning speed/cv/image\_process/gray\_to\_gray\_blitter.run, 962, cost time: 29.545002 msspeed/cv/image\_process/gray\_to\_gray cost time: 75.972 msspeed/cv/image\_process/gray\_to\_gray\_bilinear\_transorm cost time: 329.994 msspeed/cv/image\_process/gray\_to\_gray\_blitter cost time: 43.930 msspeed/cv/image\_process/gray\_to\_gray\_nearest\_transorm cost time: 38.490 ms√√√ all <speed/cv/image\_process/gray\_to\_gray> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":4,"skipped":0}

1. Test case 331: ImageProcessSpeedTest\_gray\_to\_gray\_bilinear\_transform

Execute the test command:

./run\_test.out speed/cv/image\_process/gray\_to\_gray\_bilinear\_transorm

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running speed/cv/image\_process/gray\_to\_gray\_bilinear\_transorm.run, 105, cost time: 269.584015 msspeed/cv/image\_process/gray\_to\_gray\_bilinear\_transorm cost time: 305.273 ms√√√ all <speed/cv/image\_process/gray\_to\_gray\_bilinear\_transorm> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 332: ImageProcessSpeedTest\_gray\_to\_gray\_blitter

Execute the test command:

./run\_test.out speed/cv/image\_process/gray\_to\_gray\_blitter

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running speed/cv/image\_process/gray\_to\_gray\_blitter.run, 962, cost time: 35.250000 msspeed/cv/image\_process/gray\_to\_gray\_blitter cost time: 54.124 ms√√√ all <speed/cv/image\_process/gray\_to\_gray\_blitter> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 333: ImageProcessSpeedTest\_gray\_to\_gray\_nearest\_transform

Execute the test command:

./run\_test.out speed/cv/image\_process/gray\_to\_gray\_nearest\_transorm

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running speed/cv/image\_process/gray\_to\_gray\_nearest\_transorm.run, 163, cost time: 34.322002 msspeed/cv/image\_process/gray\_to\_gray\_nearest\_transorm cost time: 48.518 ms√√√ all <speed/cv/image\_process/gray\_to\_gray\_nearest\_transorm> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 334: ImageProcessSpeedTest\_gray\_to\_rgba

Execute the test command:

./run\_test.out speed/cv/image\_process/gray\_to\_rgba

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/cv/image\_process/gray\_to\_rgba.run, 207, cost time: 24.097002 msspeed/cv/image\_process/gray\_to\_rgba cost time: 41.410 ms√√√ all <speed/cv/image\_process/gray\_to\_rgba> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 335: ImageProcessSpeedTest\_nv12\_to\_rgb

Execute the test command:

./run\_test.out speed/cv/image\_process/nv12\_to\_rgb

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/cv/image\_process/nv12\_to\_rgb.run, 785, cost time: 354.704010 msspeed/cv/image\_process/nv12\_to\_rgb cost time: 469.519 ms√√√ all <speed/cv/image\_process/nv12\_to\_rgb> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 336: ImageProcessSpeedTest\_nv21\_to\_rgb

Execute the test command:

./run\_test.out speed/cv/image\_process/nv21\_to\_rgb

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/cv/image\_process/nv21\_to\_rgb.run, 703, cost time: 340.913025 msrunning speed/cv/image\_process/nv21\_to\_rgba.run, 868, cost time: 347.362030 msspeed/cv/image\_process/nv21\_to\_rgb cost time: 452.574 msspeed/cv/image\_process/nv21\_to\_rgba cost time: 457.121 ms√√√ all <speed/cv/image\_process/nv21\_to\_rgb> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test case 337: ImageProcessSpeedTest\_nv21\_to\_rgba

Execute the test command:

./run\_test.out speed/cv/image\_process/nv21\_to\_rgba

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/cv/image\_process/nv21\_to\_rgba.run, 868, cost time: 349.356018 msspeed/cv/image\_process/nv21\_to\_rgba cost time: 463.766 ms√√√ all <speed/cv/image\_process/nv21\_to\_rgba> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 338: ImageProcessSpeedTest\_rgb\_to\_bgr

Execute the test command:

./run\_test.out speed/cv/image\_process/rgb\_to\_bgr

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/cv/image\_process/rgb\_to\_bgr.run, 289, cost time: 27.743002 msspeed/cv/image\_process/rgb\_to\_bgr cost time: 51.203 ms√√√ all <speed/cv/image\_process/rgb\_to\_bgr> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 339: ImageProcessSpeedTest\_rgb\_to\_gray

Execute the test command:

./run\_test.out speed/cv/image\_process/rgb\_to\_gray

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/cv/image\_process/rgb\_to\_gray.run, 418, cost time: 38.401001 msspeed/cv/image\_process/rgb\_to\_gray cost time: 62.322 ms√√√ all <speed/cv/image\_process/rgb\_to\_gray> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 340: ImageProcessSpeedTest\_rgba\_to\_bgr

Execute the test command:

./run\_test.out speed/cv/image\_process/rgba\_to\_bgr

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/cv/image\_process/rgba\_to\_bgra.run, 333, cost time: 28.467001 msrunning speed/cv/image\_process/rgba\_to\_bgr.run, 621, cost time: 50.530003 msspeed/cv/image\_process/rgba\_to\_bgr cost time: 99.991 msspeed/cv/image\_process/rgba\_to\_bgra cost time: 55.256 ms√√√ all <speed/cv/image\_process/rgba\_to\_bgr> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":2,"skipped":0}

1. Test case 341: ImageProcessSpeedTest\_rgba\_to\_bgra

Execute the test command:

./run\_test.out speed/cv/image\_process/rgba\_to\_bgra

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/cv/image\_process/rgba\_to\_bgra.run, 333, cost time: 28.623001 msspeed/cv/image\_process/rgba\_to\_bgra cost time: 54.780 ms√√√ all <speed/cv/image\_process/rgba\_to\_bgra> tests passed.TEST\_NAME\_UNIT: unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 342: ImageProcessSpeedTest\_rgba\_to\_gray

Execute the test command:

./run\_test.out speed/cv/image\_process/rgba\_to\_gray

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/cv/image\_process/rgba\_to\_gray.run, 461, cost time: 39.693001 msrunning speed/cv/image\_process/rgba\_to\_gray\_bilinear\_transorm.run, 520, cost time: 398.592010 msrunning speed/cv/image\_process/rgba\_to\_gray\_nearest\_transorm.run, 580, cost time: 49.029003 msspeed/cv/image\_process/rgba\_to\_gray cost time: 64.596 msspeed/cv/image\_process/rgba\_to\_gray\_bilinear\_transorm cost time: 449.529 msspeed/cv/image\_process/rgba\_to\_gray\_nearest\_transorm cost time: 62.374 ms√√√ all <speed/cv/image\_process/rgba\_to\_gray> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":3,"skipped":0}

1. Test case 343: ImageProcessSpeedTest\_rgba\_to\_gray\_bilinear\_transform

Execute the test command:

./run\_test.out speed/cv/image\_process/rgba\_to\_gray\_bilinear\_transorm

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0 running speed/cv/image\_process/rgba\_to\_gray\_bilinear\_transorm.run, 520, cost time: 394.400024 msspeed/cv/image\_process/rgba\_to\_gray\_bilinear\_transorm cost time: 445.987 ms√√√ all <speed/cv/image\_process/rgba\_to\_gray\_bilinear\_transorm> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

1. Test case 344: ImageProcessSpeedTest\_rgba\_to\_gray\_nearest\_transform

Execute the test command:

./run\_test.out speed/cv/image\_process/rgba\_to\_gray\_nearest\_transorm

Test results:

the device supports: i8sdot:0, fp16:0, i8mm: 0, sve2: 0running speed/cv/image\_process/rgba\_to\_gray\_nearest\_transorm.run, 580, cost time: 53.278004 msspeed/cv/image\_process/rgba\_to\_gray\_nearest\_transorm cost time: 67.892 ms√√√ all <speed/cv/image\_process/rgba\_to\_gray\_nearest\_transorm> tests passed.TEST\_NAME\_UNIT: Unit test TEST\_CASE\_AMOUNT\_UNIT: {"blocked":0,"failed":0,"passed":1,"skipped":0}

## Script usage instructions

If you need to use the script, just put scripts/ in the working directory and continue to execute according to the document. The following is the introduction of each script file (the script already includes the perf test part):

* test.py: the main test file, providing integrity testing of all test cases and perf data collection
* benchmark.sh: responsible for benchmark integrity testing and perf data collection
* expr\_benchmark.sh: responsible for expr\_benchmark integrity testing and perf data collection
* perf.sh: completes the collection of perf data
* Supporting Documents
  + filetype\_change.py: Convert txt files into csv files to facilitate the collation of test results. It requires two parameters, txtfile (txt file name) and csvfile (csv file name)
  + get\_tets\_op.py: Get all the names and test instructions of the test cases in the test part
  + move\_testfile.sh: Move all the files needed for testing to scripts

Finally, the integrity test results will be generated in \*.txt, which can be converted into a csv file for easy operation. The perf results will be in the perf.txt file. The test is completed.