Subreport: log_com.simiacryptus.lang.ref.ReferenceCountingBase **markdown** html pdf

Test Modules

Network Diagram

This is a network apply the following layout:

Code from [StandardLayerTests.java:397](#) executed in 2.09 seconds (0.000 gc):

```
return Graphviz.fromGraph((Graph) TestUtil.toGraph((DAGNetwork) smallLayer))
    .height(400).width(600).render(Format.PNG).toImage();
```

Logging:

```
Could not initialize guru.nidi.graphviz.engine.GraphvizCmdLineEngine
guru.nidi.graphviz.engine.GraphvizException: dot.exe command not found
Starting V8 runtime...
Started V8 runtime. Initializing graphviz...
Initialized graphviz.
```

Returns:
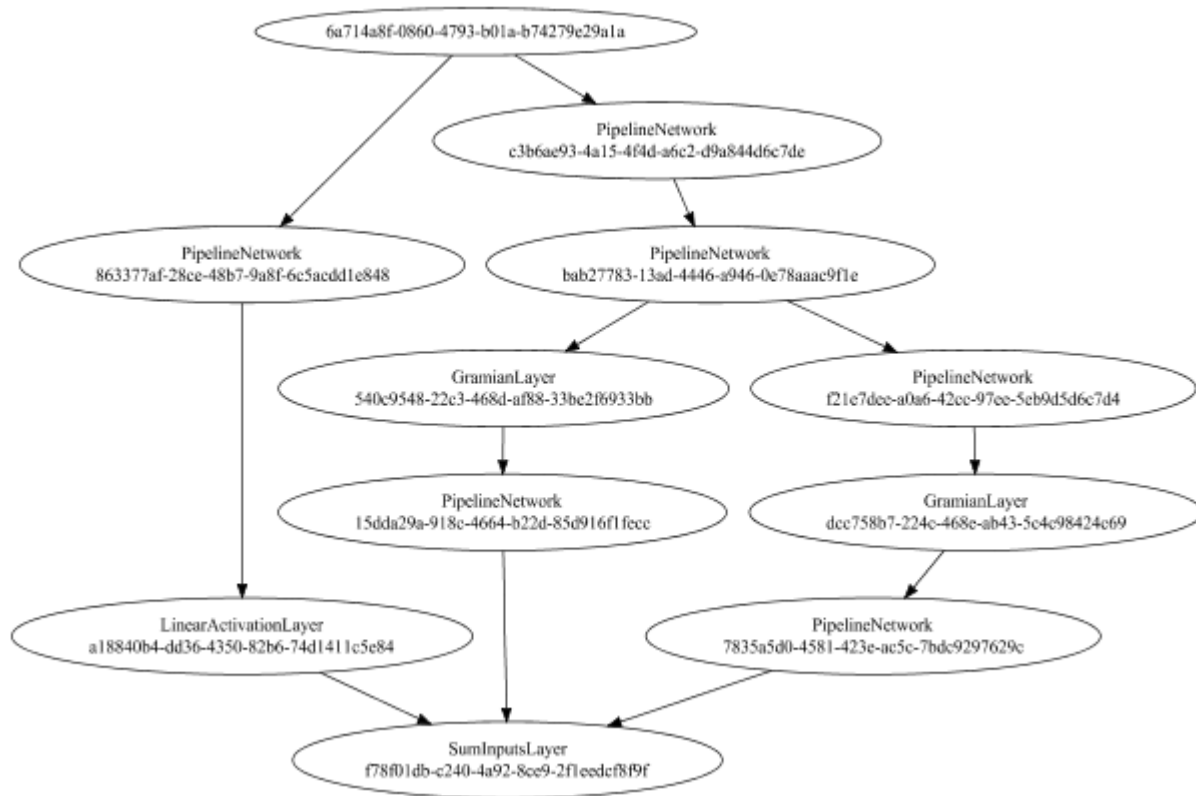
Using Seed 2159827126669353984

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester markdown html [pdf](pdf)

Subreport: BatchingTester{tolerance=0.01, batchSize=2} markdown html [pdf](pdf)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO markdown html [pdf](pdf)

Small SubTests: ImgBandBiasLayer

[[63, 42, 96]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Small SubTests: ActivationLayer

[[63, 42, 16]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Small SubTests: ImgBandBiasLayer

[[63, 42, 32]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Small SubTests: PipelineNetwork

[[125, 84, 192]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Small SubTests: PoolingLayer

[[125, 84, 192]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Small SubTests: ImgConcatLayer

[[63, 42, 64], [63, 42, 128], [63, 42, 32], [63, 42, 32]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Small SubTests: ImgBandBiasLayer

[[250, 167, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Small SubTests: GramianLayer

[[125, 84, 192]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Small SubTests: SimpleConvolutionLayer

[[63, 42, 96]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Small SubTests: SimpleConvolutionLayer

[[125, 84, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: ActivationLayer

[[250, 167, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: LinearActivationLayer

[[1, 1, 1]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: ImgBandBiasLayer

[[125, 84, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: ImgBandBiasLayer

[[125, 84, 192]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: PoolingLayer

[[250, 167, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: SquareActivationLayer

[[1, 1, 36864]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: SquareActivationLayer

[[1, 1, 65536]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: SumInputsLayer

[[1, 1, 1], [1, 1, 1], [1, 1, 1]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: ActivationLayer

[[63, 42, 96]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: ActivationLayer

[[63, 42, 32]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: ValueLayer

[]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: GramianLayer

[[63, 42, 256]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: PipelineNetwork

[[1, 1, 36864]]

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Small SubTests: PipelineNetwork

[[1, 1, 65536]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: SquareActivationLayer

[[500, 333, 3]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: SumInputsLayer

[[500, 333, 3], [500, 333, 3]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Small SubTests: ActivationLayer

[[125, 84, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Small SubTests: ActivationLayer

[[125, 84, 192]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Small SubTests: ImgBandBiasLayer

[[63, 42, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Small SubTests: ImgBandBiasLayer

[[63, 42, 128]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Small SubTests: PipelineNetwork

[[500, 333, 3]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Small SubTests: AvgReducerLayer

[[1, 1, 36864]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html [pdf](pdf)

Small SubTests: AvgReducerLayer

[[1, 1, 65536]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: SimpleConvolutionLayer

[[63, 42, 192]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: PoolingLayer

[[63, 42, 192]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: ImgBandBiasLayer

[[63, 42, 16]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: ActivationLayer

[[63, 42, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest

Small SubTests: ActivationLayer

[[63, 42, 128]]

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Small SubTests: SimpleConvolutionLayer

[[500, 333, 3]]

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Small SubTests: ImgBandBiasLayer

[[1, 1, 36864]]

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Small SubTests: ImgBandBiasLayer

[[1, 1, 65536]]

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Small SubTests: NthPowerActivationLayer

[[1, 1, 1]]

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Small SubTests: SimpleConvolutionLayer

[[63, 42, 16]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html pdf

Small SubTests: AvgReducerLayer

[[500, 333, 3]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html pdf

Small SubTests: LRNLayer

[[125, 84, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html pdf

Small SubTests: LRNLayer

[[125, 84, 192]]

Subreport: com.simiacryptus.mindseye.test.unit.SerializationTest markdown html pdf

Large SubTests: ImgBandBiasLayer

[[63, 42, 96]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester markdown html pdf

Subreport: markdown html pdf

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO markdown html pdf

Large SubTests: ActivationLayer

[[63, 42, 16]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ImgBandBiasLayer

[[63, 42, 32]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: PipelineNetwork

[[125, 84, 192]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: PoolingLayer

[[125, 84, 192]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ImgConcatLayer

[[63, 42, 64], [63, 42, 128], [63, 42, 32], [63, 42, 32]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ImgBandBiasLayer

[[250, 167, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: GramianLayer

[[125, 84, 192]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: SimpleConvolutionLayer

[[63, 42, 96]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: SimpleConvolutionLayer

[[125, 84, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ActivationLayer

[[250, 167, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: LinearActivationLayer

[[1, 1, 1]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ImgBandBiasLayer

[[125, 84, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ImgBandBiasLayer

[[125, 84, 192]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: PoolingLayer

[[250, 167, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: SquareActivationLayer

[[1, 1, 36864]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: SquareActivationLayer

[[1, 1, 65536]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: SumInputsLayer

[[1, 1, 1], [1, 1, 1], [1, 1, 1]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ActivationLayer

[[63, 42, 96]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ActivationLayer

[[63, 42, 32]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ValueLayer

[]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: GramianLayer

[[63, 42, 256]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester markdown html [pdf](pdf)

Subreport: markdown html [pdf](pdf)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO markdown html [pdf](pdf)

Large SubTests: PipelineNetwork

[[1, 1, 36864]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester markdown html [pdf](pdf)

Subreport: markdown html [pdf](pdf)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO markdown html [pdf](pdf)

Large SubTests: PipelineNetwork

[[1, 1, 65536]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester markdown html [pdf](pdf)

Subreport: markdown html [pdf](pdf)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO markdown html [pdf](pdf)

Large SubTests: SquareActivationLayer

[[500, 333, 3]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester markdown html [pdf](pdf)

Subreport: markdown html [pdf](pdf)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO markdown html [pdf](pdf)

Large SubTests: SumInputsLayer

[[500, 333, 3], [500, 333, 3]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester markdown html [pdf](pdf)

Subreport: markdown html [pdf](pdf)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO markdown html [pdf](pdf)

Large SubTests: ActivationLayer

[[125, 84, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ActivationLayer

[[125, 84, 192]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ImgBandBiasLayer

[[63, 42, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ImgBandBiasLayer

[[63, 42, 128]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: PipelineNetwork

[[500, 333, 3]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: AvgReducerLayer

[[1, 1, 36864]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: AvgReducerLayer

[[1, 1, 65536]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: SimpleConvolutionLayer

[[63, 42, 192]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ImgBandBiasLayer

[[63, 42, 16]]

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Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: PoolingLayer

[[63, 42, 192]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ActivationLayer

[[63, 42, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ActivationLayer

[[63, 42, 128]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

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Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: SimpleConvolutionLayer

[[500, 333, 3]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

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Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ImgBandBiasLayer

[[1, 1, 36864]]

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Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: ImgBandBiasLayer

[[1, 1, 65536]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester [markdown](#) [html](#) [pdf](#)

Subreport: [markdown](#) [html](#) [pdf](#)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO [markdown](#) [html](#) [pdf](#)

Large SubTests: NthPowerActivationLayer

[[1, 1, 1]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester markdown html [pdf](pdf)

Subreport: markdown html [pdf](pdf)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO markdown html [pdf](pdf)

Large SubTests: SimpleConvolutionLayer

[[63, 42, 16]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester markdown html [pdf](pdf)

Subreport: markdown html [pdf](pdf)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO markdown html [pdf](pdf)

Large SubTests: AvgReducerLayer

[[500, 333, 3]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester markdown html [pdf](pdf)

Subreport: markdown html [pdf](pdf)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO markdown html [pdf](pdf)

Large SubTests: LRNLayer

[[125, 84, 64]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester markdown html [pdf](pdf)

Subreport: markdown html [pdf](pdf)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO markdown html [pdf](pdf)

Large SubTests: LRNLayer

[[125, 84, 192]]

Subreport: com.simiacryptus.mindseye.test.unit.PerformanceTester markdown html [pdf](pdf)

Subreport: markdown html [pdf](pdf)

Subreport: com.simiacryptus.mindseye.test.unit.ReferenceIO markdown html [pdf](pdf)

Code from StandardLayerTests.java:443 executed in 0.07 seconds (0.067 gc):

```
    throwException(exceptions);
```

Logging:

```
LayerBase: PipelineNetwork/bcf4da20-0bc0-4f3e-8e31-c3887cf8619b
Error
com.simiacryptus.mindseye.test.unit.TestError: Error in PerformanceTester{batches=2,
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.lambda$bigTests$16
        at java.util.stream.ForEachOps$ForEachOp$OfRef.accept(ForEachOps.java:184)
        at java.util.stream.ReferencePipeline$2$1.accept(ReferencePipeline.java:175)
        at java.util.Spliterators$ArraySpliterator.forEachRemaining(Spliterators.java
        at java.util.stream.AbstractPipeline.copyInto(AbstractPipeline.java:481)
        at java.util.stream.AbstractPipeline.wrapAndCopyInto(AbstractPipeline.java:4'
        at java.util.stream.ForEachOps$ForEachOp.evaluateSequential(ForEachOps.java:1
        at java.util.stream.ForEachOps$ForEachOp$OfRef.evaluateSequential(ForEachOps
        at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:234)
        at java.util.stream.ReferencePipeline.forEach(ReferencePipeline.java:418)
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.bigTests(StandardLa
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.standardTests(Stand
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.run(StandardLayerTe
        at com.simiacryptus.notebook.MarkdownNotebookOutput.lambda$null$6(MarkdownNot
        at com.simiacryptus.lang.TimedResult.time(TimedResult.java:91)
        at com.simiacryptus.notebook.MarkdownNotebookOutput.lambda$wrapFrontmatter$7(
        at com.simiacryptus.notebook.NotebookOutput.lambda$concat$0(NotebookOutput.ja
        at com.simiacryptus.mindseye.test.NotebookReportBase.run(NotebookReportBase.
        at com.simiacryptus.mindseye.layers.java.LayerTestBase.test(LayerTestBase.jav
        at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java
        at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorIn
        at java.lang.reflect.Method.invoke(Method.java:498)
        at org.junit.runners.model.FrameworkMethod$1.runReflectiveCall(FrameworkMetho
        at org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable
        at org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod
        at org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.
        at org.junit.internal.runners.statements.FailOnTimeout$CallableStatement.cal
        at org.junit.internal.runners.statements.FailOnTimeout$CallableStatement.cal
        at java.util.concurrent.FutureTask.run(FutureTask.java:266)
        at java.lang.Thread.run(Thread.java:748)
Caused by: java.lang.RuntimeException: java.lang.RuntimeException: java.lang.RuntimeF
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.lambda$bigTests$16
        ... 30 common frames omitted
Caused by: java.lang.RuntimeException: java.lang.RuntimeException: java.lang.RuntimeF
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:106)
        at com.simiacryptus.mindseye.network.InnerNode.get(InnerNode.java:37)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:37)
        at com.simiacryptus.mindseye.network.InnerNode.lambda$eval$2(InnerNode.java:9
        at java.util.stream.ReferencePipeline$3$1.accept(ReferencePipeline.java:193)
        at java.util.Spliterators$ArraySpliterator.forEachRemaining(Spliterators.java
        at java.util.stream.AbstractPipeline.copyInto(AbstractPipeline.java:481)
        at java.util.stream.AbstractPipeline.wrapAndCopyInto(AbstractPipeline.java:4'
        at java.util.stream.Nodes$SizedCollectorTask.compute(Nodes.java:1878)
        at java.util.concurrent.CountedCompleter.exec(CountedCompleter.java:731)
        at java.util.concurrent.ForkJoinTask.doExec(ForkJoinTask.java:289)
        at java.util.concurrent.ForkJoinTask.doInvoke(ForkJoinTask.java:401)
        at java.util.concurrent.ForkJoinTask.invoke(ForkJoinTask.java:734)
        at java.util.stream.Nodes.collect(Nodes.java:325)
        at java.util.stream.ReferencePipeline.evaluateToNode(ReferencePipeline.java:1
        at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:540)
        at java.util.stream.AbstractPipeline.evaluateToArrayNode(AbstractPipeline.jav
        at java.util.stream.ReferencePipeline.toArray(ReferencePipeline.java:438)
        at com.simiacryptus.mindseye.network.InnerNode.eval(InnerNode.java:99)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:93)
        at com.simiacryptus.mindseye.network.InnerNode.get(InnerNode.java:37)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:37)
        at com.simiacryptus.mindseye.network.InnerNode.lambda$eval$2(InnerNode.java:9
        at java.util.stream.ReferencePipeline$3$1.accept(ReferencePipeline.java:193)
        at java.util.Spliterators$ArraySpliterator.forEachRemaining(Spliterators.java
        at java.util.stream.AbstractPipeline.copyInto(AbstractPipeline.java:481)
        at java.util.stream.AbstractPipeline.wrapAndCopyInto(AbstractPipeline.java:4'
```

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        at java.util.stream.Nodes$SizedCollectorTask.compute(Nodes.java:1878)
        at java.util.concurrent.CountedCompleter.exec(CountedCompleter.java:731)
        at java.util.concurrent.ForkJoinTask.doExec(ForkJoinTask.java:289)
        at java.util.concurrent.ForkJoinTask.doInvoke(ForkJoinTask.java:401)
        at java.util.concurrent.ForkJoinTask.invoke(ForkJoinTask.java:734)
        at java.util.stream.Nodes.collect(Nodes.java:325)
        at java.util.stream.ReferencePipeline.evaluateToNode(ReferencePipeline.java:1
        at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:540)
        at java.util.stream.AbstractPipeline.evaluateToArrayNode(AbstractPipeline.jav
        at java.util.stream.ReferencePipeline.toArray(ReferencePipeline.java:438)
        at com.simiacryptus.mindseye.network.InnerNode.eval(InnerNode.java:99)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:93)
        at com.simiacryptus.mindseye.network.InnerNode.get(InnerNode.java:37)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:37)
        at com.simiacryptus.mindseye.network.DAGNetwork.eval(DAGNetwork.java:319)
        at com.simiacryptus.mindseye.test.unit.PerformanceTester.lambda$testPerforman
        at com.simiacryptus.lang.TimedResult.time(TimedResult.java:69)
        at com.simiacryptus.mindseye.test.unit.PerformanceTester.testPerformance(Perf
        at com.simiacryptus.mindseye.test.unit.PerformanceTester.lambda$test$1(Perfor
        at java.util.stream.IntPipeline$4$1.accept(IntPipeline.java:250)
        at java.util.stream.Streams$RangeIntSpliterator.forEachRemaining(Streams.java
        at java.util.Spliterator$OfInt.forEachRemaining(Spliterator.java:693)
        at java.util.stream.AbstractPipeline.copyInto(AbstractPipeline.java:481)
        at java.util.stream.AbstractPipeline.wrapAndCopyInto(AbstractPipeline.java:4
        at java.util.stream.ReduceOps$ReduceOp.evaluateSequential(ReduceOps.java:708)
        at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:234)
        at java.util.stream.ReferencePipeline.collect(ReferencePipeline.java:499)
        at com.simiacryptus.mindseye.test.unit.PerformanceTester.test(PerformanceTest
        at com.simiacryptus.mindseye.test.unit.PerformanceTester.lambda$test$4(Perfor
        at com.simiacryptus.notebook.NotebookOutput.lambda$run$1(NotebookOutput.java
        at com.simiacryptus.notebook.MarkdownNotebookOutput.lambda$eval$18(MarkdownNo
        at com.simiacryptus.util.test.SysOutInterceptor.withOutput(SysOutInterceptor.
        at com.simiacryptus.notebook.MarkdownNotebookOutput.eval(MarkdownNotebookOutp
        at com.simiacryptus.notebook.NotebookOutput.run(NotebookOutput.java:60)
        at com.simiacryptus.mindseye.test.unit.PerformanceTester.test(PerformanceTest
        at com.simiacryptus.mindseye.test.unit.PerformanceTester.test(PerformanceTest
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.lambda$null$15(Stan
        at com.simiacryptus.notebook.MarkdownNotebookOutput.subreport(MarkdownNoteboo
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.lambda$bigTests$16(
        ... 30 common frames omitted
Caused by: java.lang.RuntimeException: java.lang.RuntimeException: java.lang.Assertic
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:106)
        at com.simiacryptus.mindseye.network.InnerNode.get(InnerNode.java:37)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:37)
        at com.simiacryptus.mindseye.network.InnerNode.lambda$eval$2(InnerNode.java:9
        at java.util.stream.ReferencePipeline$3$1.accept(ReferencePipeline.java:193)
        at java.util.Spliterators$ArraySpliterator.forEachRemaining(Spliterators.java
        at java.util.stream.AbstractPipeline.copyInto(AbstractPipeline.java:481)
        at java.util.stream.AbstractPipeline.wrapAndCopyInto(AbstractPipeline.java:4
        at java.util.stream.Nodes$SizedCollectorTask.compute(Nodes.java:1878)
        at java.util.concurrent.CountedCompleter.exec(CountedCompleter.java:731)
        at java.util.concurrent.ForkJoinTask.doExec(ForkJoinTask.java:289)
        at java.util.concurrent.ForkJoinTask.doInvoke(ForkJoinTask.java:401)
        at java.util.concurrent.ForkJoinTask.invoke(ForkJoinTask.java:734)
        at java.util.stream.Nodes.collect(Nodes.java:325)
        at java.util.stream.ReferencePipeline.evaluateToNode(ReferencePipeline.java:1
        at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:540)
        at java.util.stream.AbstractPipeline.evaluateToArrayNode(AbstractPipeline.jav
        at java.util.stream.ReferencePipeline.toArray(ReferencePipeline.java:438)
        at com.simiacryptus.mindseye.network.InnerNode.eval(InnerNode.java:99)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:93)
        at com.simiacryptus.mindseye.network.InnerNode.get(InnerNode.java:37)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:37)
        at com.simiacryptus.mindseye.network.DAGNetwork.eval(DAGNetwork.java:319)
        at com.simiacryptus.mindseye.lang.Layer.evalAndFree(Layer.java:232)
        at com.simiacryptus.mindseye.layers.MonitoringWrapperLayer.lambda$evalAndFree
        at com.simiacryptus.lang.TimedResult.time(TimedResult.java:69)
        at com.simiacryptus.mindseye.layers.MonitoringWrapperLayer.evalAndFree(Monito
```

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        at com.simiacryptus.mindseye.network.InnerNode.eval(InnerNode.java:101)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:93)
        ... 95 common frames omitted
Caused by: java.lang.RuntimeException: java.lang.AssertionError
        at com.simiacryptus.mindseye.lang.cudnn.CudnnHandle.lambda$wrap$3(CudnnHandle
        at com.simiacryptus.mindseye.lang.cudnn.CudaSystem.lambda$run$19(CudaSystem.
        at com.simiacryptus.lang.ResourcePool.apply(ResourcePool.java:144)
        at com.simiacryptus.lang.ResourcePool.apply(ResourcePool.java:116)
        at com.simiacryptus.mindseye.lang.cudnn.CudaSystem.run(CudaSystem.java:1115)
        at com.simiacryptus.mindseye.layers.cudnn.SumInputsLayer.lambda$evalAndFree$
        at java.util.stream.ReduceOps$2ReducingSink.accept(ReduceOps.java:123)
        at java.util.stream.ReduceOps$2ReducingSink.combine(ReduceOps.java:135)
        at java.util.stream.ReduceOps$2ReducingSink.combine(ReduceOps.java:107)
        at java.util.stream.ReduceOps$ReduceTask.onCompletion(ReduceOps.java:754)
        at java.util.concurrent.CountedCompleter.tryComplete(CountedCompleter.java:5
        at java.util.stream.AbstractTask.compute(AbstractTask.java:317)
        at java.util.concurrent.CountedCompleter.exec(CountedCompleter.java:731)
        at java.util.concurrent.ForkJoinTask.doExec(ForkJoinTask.java:289)
        at java.util.concurrent.ForkJoinTask.doInvoke(ForkJoinTask.java:401)
        at java.util.concurrent.ForkJoinTask.invoke(ForkJoinTask.java:734)
        at java.util.stream.ReduceOps$ReduceOp.evaluateParallel(ReduceOps.java:714)
        at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:233)
        at java.util.stream.ReferencePipeline.reduce(ReferencePipeline.java:479)
        at com.simiacryptus.mindseye.layers.cudnn.SumInputsLayer.evalAndFree(SumInput
        at com.simiacryptus.mindseye.layers.MonitoringWrapperLayer.lambda$evalAndFree
        at com.simiacryptus.lang.TimedResult.time(TimedResult.java:69)
        at com.simiacryptus.mindseye.layers.MonitoringWrapperLayer.evalAndFree(Monito
        at com.simiacryptus.mindseye.network.InnerNode.eval(InnerNode.java:101)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:93)
        ... 123 common frames omitted
Caused by: java.lang.AssertionError: null
        at com.simiacryptus.mindseye.lang.cudnn.CudnnHandle.addAndFree(CudnnHandle.ja
        at com.simiacryptus.mindseye.layers.cudnn.SumInputsLayer.lambda$null$1(SumInp
        at com.simiacryptus.mindseye.lang.cudnn.CudaSystem.lambda$null$18(CudaSystem.
        at com.simiacryptus.mindseye.lang.cudnn.CudnnHandle.lambda$null$2(CudnnHandle
        at java.util.concurrent.FutureTask.run(FutureTask.java:266)
        at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:
        at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java
        ... 1 common frames omitted
LayerBase: PipelineNetwork/bcf4da20-0bc0-4f3e-8e31-c3887cf8619b
Error
com.simiacryptus.mindseye.test.unit.TestError: Error in BatchingTester{tolerance=0.0
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.lambda$bigTests$16
        at java.util.stream.ForEachOps$ForEachOp$OfRef.accept(ForEachOps.java:184)
        at java.util.stream.ReferencePipeline$2$1.accept(ReferencePipeline.java:175)
        at java.util.Spliterators$ArraySpliterator.forEachRemaining(Spliterators.java
        at java.util.stream.AbstractPipeline.copyInto(AbstractPipeline.java:481)
        at java.util.stream.AbstractPipeline.wrapAndCopyInto(AbstractPipeline.java:4
        at java.util.stream.ForEachOps$ForEachOp.evaluateSequential(ForEachOps.java:
        at java.util.stream.ForEachOps$ForEachOp$OfRef.evaluateSequential(ForEachOps.
        at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:234)
        at java.util.stream.ReferencePipeline.forEach(ReferencePipeline.java:418)
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.bigTests(StandardLa
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.standardTests(Stand
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.run(StandardLayerTe
        at com.simiacryptus.notebook.MarkdownNotebookOutput.lambda$null$6(MarkdownNot
        at com.simiacryptus.lang.TimedResult.time(TimedResult.java:91)
        at com.simiacryptus.notebook.MarkdownNotebookOutput.lambda$wrapFrontmatter$7
        at com.simiacryptus.notebook.NotebookOutput.lambda$concat$0(NotebookOutput.ja
        at com.simiacryptus.mindseye.test.NotebookReportBase.run(NotebookReportBase.
        at com.simiacryptus.mindseye.layers.java.LayerTestBase.test(LayerTestBase.jav
        at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java
        at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorIr
        at java.lang.reflect.Method.invoke(Method.java:498)
        at org.junit.runners.model.FrameworkMethod$1.runReflectiveCall(FrameworkMetho
        at org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable
        at org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod.
```

```
            at org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.j
            at org.junit.internal.runners.statements.FailOnTimeout$CallableStatement.call
            at org.junit.internal.runners.statements.FailOnTimeout$CallableStatement.call
            at java.util.concurrent.FutureTask.run(FutureTask.java:266)
            at java.lang.Thread.run(Thread.java:748)
    Caused by: java.lang.RuntimeException: java.lang.RuntimeException: java.lang.RuntimeF
            at com.simiacryptus.mindseye.test.unit.StandardLayerTests.lambda$bigTests$16(
            ... 30 common frames omitted
    Caused by: java.lang.RuntimeException: java.lang.RuntimeException: java.lang.RuntimeF
            at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:106)
            at com.simiacryptus.mindseye.network.InnerNode.get(InnerNode.java:37)
            at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:37)
            at com.simiacryptus.mindseye.network.InnerNode.lambda$eval$2(InnerNode.java:9
            at java.util.stream.ReferencePipeline$3$1.accept(ReferencePipeline.java:193)
            at java.util.Spliterators$ArraySpliterator.forEachRemaining(Spliterators.java
            at java.util.stream.AbstractPipeline.copyInto(AbstractPipeline.java:481)
            at java.util.stream.AbstractPipeline.wrapAndCopyInto(AbstractPipeline.java:4'
            at java.util.stream.Nodes$SizedCollectorTask.compute(Nodes.java:1878)
            at java.util.concurrent.CountedCompleter.exec(CountedCompleter.java:731)
            at java.util.concurrent.ForkJoinTask.doExec(ForkJoinTask.java:289)
            at java.util.concurrent.ForkJoinTask.doInvoke(ForkJoinTask.java:401)
            at java.util.concurrent.ForkJoinTask.invoke(ForkJoinTask.java:734)
            at java.util.stream.Nodes.collect(Nodes.java:325)
            at java.util.stream.ReferencePipeline.evaluateToNode(ReferencePipeline.java:1
            at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:540)
            at java.util.stream.AbstractPipeline.evaluateToArrayNode(AbstractPipeline.jav
            at java.util.stream.ReferencePipeline.toArray(ReferencePipeline.java:438)
            at com.simiacryptus.mindseye.network.InnerNode.eval(InnerNode.java:99)
            at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:93)
            at com.simiacryptus.mindseye.network.InnerNode.get(InnerNode.java:37)
            at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:37)
            at com.simiacryptus.mindseye.network.InnerNode.lambda$eval$2(InnerNode.java:9
            at java.util.stream.ReferencePipeline$3$1.accept(ReferencePipeline.java:193)
            at java.util.Spliterators$ArraySpliterator.forEachRemaining(Spliterators.java
            at java.util.stream.AbstractPipeline.copyInto(AbstractPipeline.java:481)
            at java.util.stream.AbstractPipeline.wrapAndCopyInto(AbstractPipeline.java:4'
            at java.util.stream.Nodes$SizedCollectorTask.compute(Nodes.java:1878)
            at java.util.concurrent.CountedCompleter.exec(CountedCompleter.java:731)
            at java.util.concurrent.ForkJoinTask.doExec(ForkJoinTask.java:289)
            at java.util.concurrent.ForkJoinTask.doInvoke(ForkJoinTask.java:401)
            at java.util.concurrent.ForkJoinTask.invoke(ForkJoinTask.java:734)
            at java.util.stream.Nodes.collect(Nodes.java:325)
            at java.util.stream.ReferencePipeline.evaluateToNode(ReferencePipeline.java:1
            at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:540)
            at java.util.stream.AbstractPipeline.evaluateToArrayNode(AbstractPipeline.jav
            at java.util.stream.ReferencePipeline.toArray(ReferencePipeline.java:438)
            at com.simiacryptus.mindseye.network.InnerNode.eval(InnerNode.java:99)
            at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:93)
            at com.simiacryptus.mindseye.network.InnerNode.get(InnerNode.java:37)
            at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:37)
            at com.simiacryptus.mindseye.network.DAGNetwork.eval(DAGNetwork.java:319)
            at com.simiacryptus.mindseye.test.SimpleListEval.call(SimpleListEval.java:13;
            at com.simiacryptus.mindseye.test.SimpleListEval.run(SimpleListEval.java:98)
            at com.simiacryptus.mindseye.test.unit.BatchingTester.test(BatchingTester.jav
            at com.simiacryptus.mindseye.test.unit.BatchingTester.lambda$test$20(Batching
            at com.simiacryptus.notebook.MarkdownNotebookOutput.lambda$eval$18(MarkdownNo
            at com.simiacryptus.util.test.SysOutInterceptor.withOutput(SysOutInterceptor.
            at com.simiacryptus.notebook.MarkdownNotebookOutput.eval(MarkdownNotebookOutp
            at com.simiacryptus.notebook.NotebookOutput.eval(NotebookOutput.java:74)
            at com.simiacryptus.mindseye.test.unit.BatchingTester.test(BatchingTester.jav
            at com.simiacryptus.mindseye.test.unit.BatchingTester.test(BatchingTester.jav
            at com.simiacryptus.mindseye.test.unit.StandardLayerTests.lambda$null$15(Star
            at com.simiacryptus.notebook.MarkdownNotebookOutput.subreport(MarkdownNotebod
            at com.simiacryptus.mindseye.test.unit.StandardLayerTests.lambda$bigTests$16(
            ... 30 common frames omitted
    Caused by: java.lang.RuntimeException: java.lang.RuntimeException: java.lang.Assertid
            at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:106)
            at com.simiacryptus.mindseye.network.InnerNode.get(InnerNode.java:37)
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            at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:37)
            at com.simiacryptus.mindseye.network.InnerNode.lambda$eval$2(InnerNode.java:9
            at java.util.stream.ReferencePipeline$3$1.accept(ReferencePipeline.java:193)
            at java.util.Spliterators$ArraySpliterator.forEachRemaining(Spliterators.java
            at java.util.stream.AbstractPipeline.copyInto(AbstractPipeline.java:481)
            at java.util.stream.AbstractPipeline.wrapAndCopyInto(AbstractPipeline.java:4
            at java.util.stream.Nodes$SizedCollectorTask.compute(Nodes.java:1878)
            at java.util.concurrent.CountedCompleter.exec(CountedCompleter.java:731)
            at java.util.concurrent.ForkJoinTask.doExec(ForkJoinTask.java:289)
            at java.util.concurrent.ForkJoinTask.doInvoke(ForkJoinTask.java:401)
            at java.util.concurrent.ForkJoinTask.invoke(ForkJoinTask.java:734)
            at java.util.stream.Nodes.collect(Nodes.java:325)
            at java.util.stream.ReferencePipeline.evaluateToNode(ReferencePipeline.java:1
            at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:540)
            at java.util.stream.AbstractPipeline.evaluateToArrayNode(AbstractPipeline.jav
            at java.util.stream.ReferencePipeline.toArray(ReferencePipeline.java:438)
            at com.simiacryptus.mindseye.network.InnerNode.eval(InnerNode.java:99)
            at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:93)
            at com.simiacryptus.mindseye.network.InnerNode.get(InnerNode.java:37)
            at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:37)
            at com.simiacryptus.mindseye.network.DAGNetwork.eval(DAGNetwork.java:319)
            at com.simiacryptus.mindseye.lang.Layer.evalAndFree(Layer.java:232)
            at com.simiacryptus.mindseye.network.InnerNode.eval(InnerNode.java:101)
            at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:93)
            ... 84 common frames omitted
    Caused by: java.lang.RuntimeException: java.lang.AssertionError
            at com.simiacryptus.mindseye.lang.cudnn.CudnnHandle.lambda$wrap$3(CudnnHandle
            at com.simiacryptus.mindseye.lang.cudnn.CudaSystem.lambda$run$19(CudaSystem.j
            at com.simiacryptus.lang.ResourcePool.apply(ResourcePool.java:144)
            at com.simiacryptus.lang.ResourcePool.apply(ResourcePool.java:116)
            at com.simiacryptus.mindseye.lang.cudnn.CudaSystem.run(CudaSystem.java:1115)
            at com.simiacryptus.mindseye.layers.cudnn.SumInputsLayer.lambda$evalAndFree$2
            at java.util.stream.ReduceOps$2ReducingSink.accept(ReduceOps.java:123)
            at java.util.stream.ReduceOps$2ReducingSink.combine(ReduceOps.java:135)
            at java.util.stream.ReduceOps$2ReducingSink.combine(ReduceOps.java:107)
            at java.util.stream.ReduceOps$ReduceTask.onCompletion(ReduceOps.java:754)
            at java.util.concurrent.CountedCompleter.tryComplete(CountedCompleter.java:5
            at java.util.stream.AbstractTask.compute(AbstractTask.java:317)
            at java.util.concurrent.CountedCompleter.exec(CountedCompleter.java:731)
            at java.util.concurrent.ForkJoinTask.doExec(ForkJoinTask.java:289)
            at java.util.concurrent.ForkJoinPool.helpComplete(ForkJoinPool.java:1870)
            at java.util.concurrent.ForkJoinPool.externalHelpComplete(ForkJoinPool.java:2
            at java.util.concurrent.ForkJoinTask.externalAwaitDone(ForkJoinTask.java:324)
            at java.util.concurrent.ForkJoinTask.doInvoke(ForkJoinTask.java:405)
            at java.util.concurrent.ForkJoinTask.invoke(ForkJoinTask.java:734)
            at java.util.stream.ReduceOps$ReduceOp.evaluateParallel(ReduceOps.java:714)
            at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:233)
            at java.util.stream.ReferencePipeline.reduce(ReferencePipeline.java:479)
            at com.simiacryptus.mindseye.layers.cudnn.SumInputsLayer.evalAndFree(SumInput
            at com.simiacryptus.mindseye.network.InnerNode.eval(InnerNode.java:101)
            at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:93)
            ... 109 common frames omitted
    Caused by: java.lang.AssertionError: null
            at com.simiacryptus.mindseye.lang.cudnn.CudnnHandle.addAndFree(CudnnHandle.ja
            at com.simiacryptus.mindseye.layers.cudnn.SumInputsLayer.lambda$null$1(SumInp
            at com.simiacryptus.mindseye.lang.cudnn.CudaSystem.lambda$null$18(CudaSystem.
            at com.simiacryptus.mindseye.lang.cudnn.CudnnHandle.lambda$null$2(CudnnHandle
            at java.util.concurrent.FutureTask.run(FutureTask.java:266)
            at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:
            at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java
            ... 1 common frames omitted
```

Returns:

```
    java.lang.RuntimeException: com.simiacryptus.mindseye.test.unit.TestError: Error in F
            at com.simiacryptus.mindseye.test.unit.StandardLayerTests.throwException(Star
            at com.simiacryptus.mindseye.test.unit.StandardLayerTests.lambda$run$7(Standa
```

```
        at com.simiacryptus.notebook.NotebookOutput.lambda$run$1(NotebookOutput.java
        at com.simiacryptus.notebook.MarkdownNotebookOutput.lambda$eval$18(MarkdownNo
        at com.simiacryptus.util.test.SysOutInterceptor.withOutput(SysOutInterceptor.
        at com.simiacryptus.notebook.MarkdownNotebookOutput.eval(MarkdownNotebookOutp
        at com.simiacryptus.notebook.NotebookOutput.run(NotebookOutput.java:60)
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.run(StandardLayerTe
        at com.simiacryptus.notebook.MarkdownNotebookOutput.lambda$null$6(MarkdownNot
        at com.simiacryptus.lang.TimedResult.time(TimedResult.java:91)
        at com.simiacryptus.notebook.MarkdownNotebookOutput.lambda$wrapFrontmatter$7(
        at com.simiacryptus.notebook.NotebookOutput.lambda$concat$0(NotebookOutput.ja
        at com.simiacryptus.mindseye.test.NotebookReportBase.run(NotebookReportBase.j
        at com.simiacryptus.mindseye.layers.java.LayerTestBase.test(LayerTestBase.jav
        at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:
        at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorIm
        at java.lang.reflect.Method.invoke(Method.java:498)
        at org.junit.runners.model.FrameworkMethod$1.runReflectiveCall(FrameworkMetho
        at org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable
        at org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod.
        at org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.j
        at org.junit.internal.runners.statements.FailOnTimeout$CallableStatement.call
        at org.junit.internal.runners.statements.FailOnTimeout$CallableStatement.call
        at java.util.concurrent.FutureTask.run(FutureTask.java:266)
        at java.lang.Thread.run(Thread.java:748)
Caused by: com.simiacryptus.mindseye.test.unit.TestError: Error in PerformanceTester
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.lambda$bigTests$16(
        at java.util.stream.ForEachOps$ForEachOp$OfRef.accept(ForEachOps.java:184)
        at java.util.stream.ReferencePipeline$2$1.accept(ReferencePipeline.java:175)
        at java.util.Spliterators$ArraySpliterator.forEachRemaining(Spliterators.java
        at java.util.stream.AbstractPipeline.copyInto(AbstractPipeline.java:481)
        at java.util.stream.AbstractPipeline.wrapAndCopyInto(AbstractPipeline.java:47
        at java.util.stream.ForEachOps$ForEachOp.evaluateSequential(ForEachOps.java:1
        at java.util.stream.ForEachOps$ForEachOp$OfRef.evaluateSequential(ForEachOps.
        at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:234)
        at java.util.stream.ReferencePipeline.forEach(ReferencePipeline.java:418)
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.bigTests(StandardLa
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.standardTests(Stand
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.run(StandardLayerTe
        ... 18 more
Caused by: java.lang.RuntimeException: java.lang.RuntimeException: java.lang.RuntimeE
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.lambda$bigTests$16(
        ... 30 more
Caused by: java.lang.RuntimeException: java.lang.RuntimeException: java.lang.RuntimeE
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:106)
        at com.simiacryptus.mindseye.network.InnerNode.get(InnerNode.java:37)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:37)
        at com.simiacryptus.mindseye.network.InnerNode.lambda$eval$2(InnerNode.java:9
        at java.util.stream.ReferencePipeline$3$1.accept(ReferencePipeline.java:193)
        at java.util.Spliterators$ArraySpliterator.forEachRemaining(Spliterators.java
        at java.util.stream.AbstractPipeline.copyInto(AbstractPipeline.java:481)
        at java.util.stream.AbstractPipeline.wrapAndCopyInto(AbstractPipeline.java:47
        at java.util.stream.Nodes$SizedCollectorTask.compute(Nodes.java:1878)
        at java.util.concurrent.CountedCompleter.exec(CountedCompleter.java:731)
        at java.util.concurrent.ForkJoinTask.doExec(ForkJoinTask.java:289)
        at java.util.concurrent.ForkJoinTask.doInvoke(ForkJoinTask.java:401)
        at java.util.concurrent.ForkJoinTask.invoke(ForkJoinTask.java:734)
        at java.util.stream.Nodes.collect(Nodes.java:325)
        at java.util.stream.ReferencePipeline.evaluateToNode(ReferencePipeline.java:1
        at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:540)
        at java.util.stream.AbstractPipeline.evaluateToArrayNode(AbstractPipeline.jav
        at java.util.stream.ReferencePipeline.toArray(ReferencePipeline.java:438)
        at com.simiacryptus.mindseye.network.InnerNode.eval(InnerNode.java:99)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:93)
        at com.simiacryptus.mindseye.network.InnerNode.get(InnerNode.java:37)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:37)
        at com.simiacryptus.mindseye.network.InnerNode.lambda$eval$2(InnerNode.java:9
        at java.util.stream.ReferencePipeline$3$1.accept(ReferencePipeline.java:193)
        at java.util.Spliterators$ArraySpliterator.forEachRemaining(Spliterators.java
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        at java.util.stream.AbstractPipeline.copyInto(AbstractPipeline.java:481)
        at java.util.stream.AbstractPipeline.wrapAndCopyInto(AbstractPipeline.java:4'
        at java.util.stream.Nodes$SizedCollectorTask.compute(Nodes.java:1878)
        at java.util.concurrent.CountedCompleter.exec(CountedCompleter.java:731)
        at java.util.concurrent.ForkJoinTask.doExec(ForkJoinTask.java:289)
        at java.util.concurrent.ForkJoinTask.doInvoke(ForkJoinTask.java:401)
        at java.util.concurrent.ForkJoinTask.invoke(ForkJoinTask.java:734)
        at java.util.stream.Nodes.collect(Nodes.java:325)
        at java.util.stream.ReferencePipeline.evaluateToNode(ReferencePipeline.java:1
        at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:540)
        at java.util.stream.AbstractPipeline.evaluateToArrayNode(AbstractPipeline.jav
        at java.util.stream.ReferencePipeline.toArray(ReferencePipeline.java:438)
        at com.simiacryptus.mindseye.network.InnerNode.eval(InnerNode.java:99)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:93)
        at com.simiacryptus.mindseye.network.InnerNode.get(InnerNode.java:37)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:37)
        at com.simiacryptus.mindseye.network.DAGNetwork.eval(DAGNetwork.java:319)
        at com.simiacryptus.mindseye.test.unit.PerformanceTester.lambda$testPerforman
        at com.simiacryptus.lang.TimedResult.time(TimedResult.java:69)
        at com.simiacryptus.mindseye.test.unit.PerformanceTester.testPerformance(Perf
        at com.simiacryptus.mindseye.test.unit.PerformanceTester.lambda$test$1(Perfor
        at java.util.stream.IntPipeline$4$1.accept(IntPipeline.java:250)
        at java.util.stream.Streams$RangeIntSpliterator.forEachRemaining(Streams.java
        at java.util.Spliterator$OfInt.forEachRemaining(Spliterator.java:693)
        at java.util.stream.AbstractPipeline.copyInto(AbstractPipeline.java:481)
        at java.util.stream.AbstractPipeline.wrapAndCopyInto(AbstractPipeline.java:4'
        at java.util.stream.ReduceOps$ReduceOp.evaluateSequential(ReduceOps.java:708)
        at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:234)
        at java.util.stream.ReferencePipeline.collect(ReferencePipeline.java:499)
        at com.simiacryptus.mindseye.test.unit.PerformanceTester.test(PerformanceTest
        at com.simiacryptus.mindseye.test.unit.PerformanceTester.lambda$test$4(Perfor
        at com.simiacryptus.notebook.NotebookOutput.lambda$run$1(NotebookOutput.java:
        at com.simiacryptus.notebook.MarkdownNotebookOutput.lambda$eval$18(MarkdownNc
        at com.simiacryptus.util.test.SysOutInterceptor.withOutput(SysOutInterceptor.
        at com.simiacryptus.notebook.MarkdownNotebookOutput.eval(MarkdownNotebookOutp
        at com.simiacryptus.notebook.NotebookOutput.run(NotebookOutput.java:60)
        at com.simiacryptus.mindseye.test.unit.PerformanceTester.test(PerformanceTest
        at com.simiacryptus.mindseye.test.unit.PerformanceTester.test(PerformanceTest
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.lambda$null$15(Stan
        at com.simiacryptus.notebook.MarkdownNotebookOutput.subreport(MarkdownNoteboo
        at com.simiacryptus.mindseye.test.unit.StandardLayerTests.lambda$bigTests$16(
        ... 30 more
Caused by: java.lang.RuntimeException: java.lang.RuntimeException: java.lang.Assertio
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:106)
        at com.simiacryptus.mindseye.network.InnerNode.get(InnerNode.java:37)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:37)
        at com.simiacryptus.mindseye.network.InnerNode.lambda$eval$2(InnerNode.java:9
        at java.util.stream.ReferencePipeline$3$1.accept(ReferencePipeline.java:193)
        at java.util.Spliterators$ArraySpliterator.forEachRemaining(Spliterators.java
        at java.util.stream.AbstractPipeline.copyInto(AbstractPipeline.java:481)
        at java.util.stream.AbstractPipeline.wrapAndCopyInto(AbstractPipeline.java:4'
        at java.util.stream.Nodes$SizedCollectorTask.compute(Nodes.java:1878)
        at java.util.concurrent.CountedCompleter.exec(CountedCompleter.java:731)
        at java.util.concurrent.ForkJoinTask.doExec(ForkJoinTask.java:289)
        at java.util.concurrent.ForkJoinTask.doInvoke(ForkJoinTask.java:401)
        at java.util.concurrent.ForkJoinTask.invoke(ForkJoinTask.java:734)
        at java.util.stream.Nodes.collect(Nodes.java:325)
        at java.util.stream.ReferencePipeline.evaluateToNode(ReferencePipeline.java:1
        at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:540)
        at java.util.stream.AbstractPipeline.evaluateToArrayNode(AbstractPipeline.jav
        at java.util.stream.ReferencePipeline.toArray(ReferencePipeline.java:438)
        at com.simiacryptus.mindseye.network.InnerNode.eval(InnerNode.java:99)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:93)
        at com.simiacryptus.mindseye.network.InnerNode.get(InnerNode.java:37)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:37)
        at com.simiacryptus.mindseye.network.DAGNetwork.eval(DAGNetwork.java:319)
        at com.simiacryptus.mindseye.lang.Layer.evalAndFree(Layer.java:232)
        at com.simiacryptus.mindseye.layers.MonitoringWrapperLayer.lambda$evalAndFree
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        at com.simiacryptus.lang.TimedResult.time(TimedResult.java:69)
        at com.simiacryptus.mindseye.layers.MonitoringWrapperLayer.evalAndFree(Monitc
        at com.simiacryptus.mindseye.network.InnerNode.eval(InnerNode.java:101)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:93)
        ... 95 more
Caused by: java.lang.RuntimeException: java.lang.AssertionError
        at com.simiacryptus.mindseye.lang.cudnn.CudnnHandle.lambda$wrap$3(CudnnHandle
        at com.simiacryptus.mindseye.lang.cudnn.CudaSystem.lambda$run$19(CudaSystem.j
        at com.simiacryptus.lang.ResourcePool.apply(ResourcePool.java:144)
        at com.simiacryptus.lang.ResourcePool.apply(ResourcePool.java:116)
        at com.simiacryptus.mindseye.lang.cudnn.CudaSystem.run(CudaSystem.java:1115)
        at com.simiacryptus.mindseye.layers.cudnn.SumInputsLayer.lambda$evalAndFree$2
        at java.util.stream.ReduceOps$2ReducingSink.accept(ReduceOps.java:123)
        at java.util.stream.ReduceOps$2ReducingSink.combine(ReduceOps.java:135)
        at java.util.stream.ReduceOps$2ReducingSink.combine(ReduceOps.java:107)
        at java.util.stream.ReduceOps$ReduceTask.onCompletion(ReduceOps.java:754)
        at java.util.concurrent.CountedCompleter.tryComplete(CountedCompleter.java:5°
        at java.util.stream.AbstractTask.compute(AbstractTask.java:317)
        at java.util.concurrent.CountedCompleter.exec(CountedCompleter.java:731)
        at java.util.concurrent.ForkJoinTask.doExec(ForkJoinTask.java:289)
        at java.util.concurrent.ForkJoinTask.doInvoke(ForkJoinTask.java:401)
        at java.util.concurrent.ForkJoinTask.invoke(ForkJoinTask.java:734)
        at java.util.stream.ReduceOps$ReduceOp.evaluateParallel(ReduceOps.java:714)
        at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:233)
        at java.util.stream.ReferencePipeline.reduce(ReferencePipeline.java:479)
        at com.simiacryptus.mindseye.layers.cudnn.SumInputsLayer.evalAndFree(SumInput
        at com.simiacryptus.mindseye.layers.MonitoringWrapperLayer.lambda$evalAndFree
        at com.simiacryptus.lang.TimedResult.time(TimedResult.java:69)
        at com.simiacryptus.mindseye.layers.MonitoringWrapperLayer.evalAndFree(Monitc
        at com.simiacryptus.mindseye.network.InnerNode.eval(InnerNode.java:101)
        at com.simiacryptus.mindseye.network.LazyResult.get(LazyResult.java:93)
        ... 123 more
Caused by: java.lang.AssertionError
        at com.simiacryptus.mindseye.lang.cudnn.CudnnHandle.addAndFree(CudnnHandle.ja
        at com.simiacryptus.mindseye.layers.cudnn.SumInputsLayer.lambda$null$1(SumInp
        at com.simiacryptus.mindseye.lang.cudnn.CudaSystem.lambda$null$18(CudaSystem.
        at com.simiacryptus.mindseye.lang.cudnn.CudnnHandle.lambda$null$2(CudnnHandle
        at java.util.concurrent.FutureTask.run(FutureTask.java:266)
        at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:
        at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java
        ... 1 more
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