Fortify Standalone Report Generator

Developer Workbook

akka-stream

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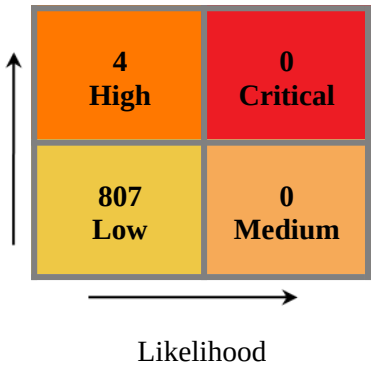
Executive Summary

This workbook is intended to provide all necessary details and information for a developer to understand and remediate the different issues discovered during the akka-stream project audit. The information contained in this workbook is targeted at project managers and developers.

This section provides an overview of the issues uncovered during analysis.

Project Name:	akka-stream
Project Version:	
SCA:	Results Present
WebInspect:	Results Not Present
WebInspect Agent:	Results Not Present
Other:	Results Not Present

Issues by Priority



Top Ten Critical Categories

This project does not contain any critical issues

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Project Description

This section provides an overview of the Fortify scan engines used for this project, as well as the project meta-information.

SCA

Date of Last Analysis:	Jun 16, 2022, 12:03 PM	**Engine Version:**	21.1.1.0009
Host Name:	Jacks-Work-MBP.local	**Certification:**	VALID
Number of Files:	187	**Lines of Code:**	28,315

Rulepack Name	Rulepack Version
Fortify Secure Coding Rules, Extended, Java	2022.1.0.0007
Fortify Secure Coding Rules, Core, Scala	2022.1.0.0007
Fortify Secure Coding Rules, Extended, JSP	2022.1.0.0007
Fortify Secure Coding Rules, Core, Android	2022.1.0.0007
Fortify Secure Coding Rules, Extended, Content	2022.1.0.0007
Fortify Secure Coding Rules, Extended, Configuration	2022.1.0.0007
Fortify Secure Coding Rules, Core, Annotations	2022.1.0.0007
Fortify Secure Coding Rules, Community, Cloud	2022.1.0.0007
Fortify Secure Coding Rules, Core, Universal	2022.1.0.0007
Fortify Secure Coding Rules, Core, Java	2022.1.0.0007
Fortify Secure Coding Rules, Community, Universal	2022.1.0.0007

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Issue Breakdown by Fortify Categories

The following table depicts a summary of all issues grouped vertically by Fortify Category. For each category, the total number of issues is shown by Fortify Priority Order, including information about the number of audited issues.

Category	Fortify Priority (audited/total)				Total Issues
	Critical	High	Medium	Low	
Code Correctness: Constructor Invokes Overridable Function	0	0	0	0 / 694	0 / 694
Code Correctness: Erroneous String Compare	0	0	0	0 / 8	0 / 8
Code Correctness: Non-Static Inner Class Implements Serializable	0	0	0	0 / 87	0 / 87
Dead Code: Expression is Always false	0	0	0	0 / 1	0 / 1
Dead Code: Expression is Always true	0	0	0	0 / 2	0 / 2
Insecure Randomness	0	0 / 2	0	0	0 / 2
J2EE Bad Practices: Sockets	0	0	0	0 / 6	0 / 6
J2EE Bad Practices: Threads	0	0	0	0 / 2	0 / 2
Null Dereference	0	0 / 2	0	0	0 / 2
Object Model Violation: Just one of equals() and hashCode() Defined	0	0	0	0 / 2	0 / 2
Poor Error Handling: Overly Broad Catch	0	0	0	0 / 2	0 / 2
Poor Error Handling: Throw Inside Finally	0	0	0	0 / 3	0 / 3

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Results Outline

Code Correctness: Constructor Invokes Overridable Function (694 issues)

Abstract

A constructor of the class calls a function that can be overridden.

Explanation

When a constructor calls an overridable function, it may allow an attacker to access the `this` reference prior to the object being fully initialized, which can in turn lead to a vulnerability. **Example 1:** The following calls a method that can be overridden.

```
...
class User {
  private String username;
  private boolean valid;
  public User(String username, String password){
    this.username = username;
    this.valid = validateUser(username, password);
  }
  public boolean validateUser(String username, String password){
    //validate user is real and can authenticate
    ...
  }
  public final boolean isValid(){
    return valid;
  }
}
```

Since the function `validateUser` and the class are not `final`, it means that they can be overridden, and then initializing a variable to the subclass that overrides this function would allow bypassing of the `validateUser` functionality. For example:

```
...
class Attacker extends User{
  public Attacker(String username, String password){
    super(username, password);
  }
  public boolean validateUser(String username, String password){
    return true;
  }
}
...
class MainClass{
  public static void main(String[] args){
    User hacker = new Attacker("Evil", "Hacker");
    if (hacker.isValid()){
      System.out.println("Attack successful!");
    }else{
      System.out.println("Attack failed");
    }
  }
}
```

The code in `Example 1` prints "Attack successful!", since the `Attacker` class overrides the `validateUser()` function that is called from the constructor of the superclass `User`, and Java will first look in the subclass for functions called from the constructor.

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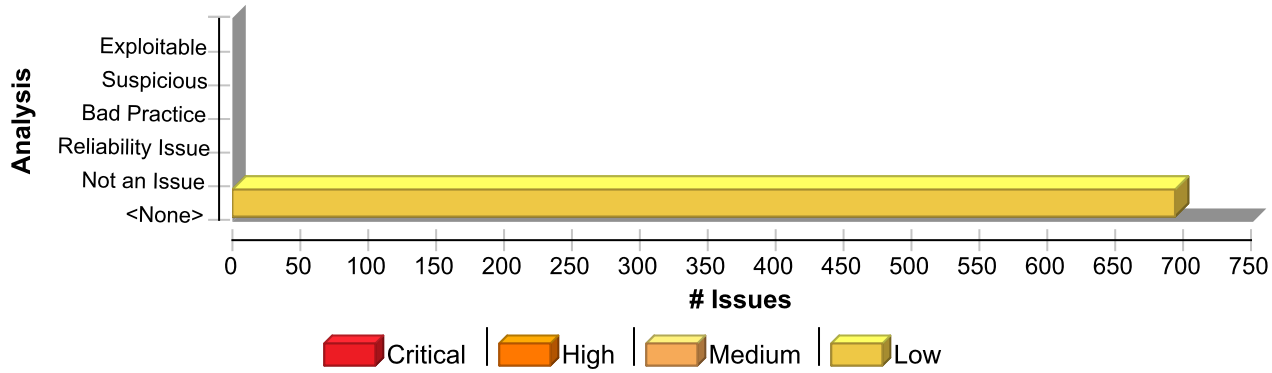
Recommendation
Constructors should not call functions that can be overridden, either by specifying them as `final`, or specifying the class as `final`. Alternatively if this code is only ever needed in the constructor, the `private` access specifier can be used, or the logic could be placed directly into the constructor of the superclass. **Example 2:** The following makes the class `final` to prevent the function from being overridden elsewhere.

```
...
final class User {
  private String username;
  private boolean valid;
  public User(String username, String password){
    this.username = username;
    this.valid = validateUser(username, password);
  }
  private boolean validateUser(String username, String password){
    //validate user is real and can authenticate
    ...
  }
  public final boolean isValid(){
    return valid;
  }
}
```

This example specifies the class as `final`, so that it cannot be subclassed, and changes the `validateUser()` function to `private`, since it is not needed elsewhere in this application. This is programming defensively, since at a later date it may be decided that the `User` class needs to be subclassed, which would result in this vulnerability reappearing if the `validateUser()` function was not set to `private`.

Issue Summary



Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Code Correctness: Constructor Invokes Overridable Function	694	0	0	694
Total	**694**	**0**	**0**	**694**

Code Correctness: Constructor Invokes Overridable Function	**Low**
Package: akka.stream	
src/main/scala/akka/stream/ActorMaterializer.scala, line 463 (Code Correctness: Constructor Invokes Overridable Function)	**Low**
Issue Details	

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream

src/main/scala/akka/stream/ActorMaterializer.scala, line 463 (Code Correctness: Constructor Invokes Overridable Function) — Low

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: requirePowerOfTwo
Enclosing Method: ActorMaterializerSettings()
File: src/main/scala/akka/stream/ActorMaterializer.scala:463
Taint Flags:

```
460 require(initialInputBufferSize > 0, "initialInputBufferSize must be > 0")
461 require(syncProcessingLimit > 0, "syncProcessingLimit must be > 0")
462
463 requirePowerOfTwo(maxInputBufferSize, "maxInputBufferSize")
464 require(
465 initialInputBufferSize <= maxInputBufferSize,
466 s"initialInputBufferSize($initialInputBufferSize) must be <= maxInputBufferSize($maxInputBufferSize)")
```

src/main/scala/akka/stream/Supervision.scala, line 91 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: restartingDecider
Enclosing Method: Supervision()
File: src/main/scala/akka/stream/Supervision.scala:91
Taint Flags:

```
88 /**
89 * Java API: Decider function that returns [[#restart]] for all exceptions.
90 */
91 val getRestartingDecider: japi.Function[Throwable, Directive] = restartingDecider
92
93 }
94
```

src/main/scala/akka/stream/Attributes.scala, line 656 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream

src/main/scala/akka/stream/Attributes.scala, line 656 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Sink Details

Sink: FunctionCall: apply
Enclosing Method: Attributes()
File: src/main/scala/akka/stream/Attributes.scala:656
Taint Flags:

```
653
654 val none: Attributes = Attributes()
655
656 val asyncBoundary: Attributes = Attributes(AsyncBoundary)
657
658 /**
659 * Specifies the name of the operation.
```

src/main/scala/akka/stream/SystemMaterializer.scala, line 56 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: materializerSettings
Enclosing Method: SystemMaterializer()
File: src/main/scala/akka/stream/SystemMaterializer.scala:56
Taint Flags:

```
53 system.settings.config.getDuration("akka.stream.materializer.creation-timeout").asScala
54
55 @InternalApi @nowarn("msg=deprecated")
56 private val materializerGuardian = system.systemActorOf(
57 MaterializerGuardian
58 .props(systemMaterializerPromise, materializerSettings)
59 // #28037 run on internal dispatcher to make sure default dispatcher starvation doesn't stop materializer creation
```

src/main/scala/akka/stream/SystemMaterializer.scala, line 56 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: systemMaterializerPromise
Enclosing Method: SystemMaterializer()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream

src/main/scala/akka/stream/SystemMaterializer.scala, line 56 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/SystemMaterializer.scala:56
Taint Flags:

```
53 system.settings.config.getDuration("akka.stream.materializer.creation-timeout").asScala
54
55 @InternalApi @nowarn("msg=deprecated")
56 private val materializerGuardian = system.systemActorOf(
57 MaterializerGuardian
58 .props(systemMaterializerPromise, materializerSettings)
59 // #28037 run on internal dispatcher to make sure default dispatcher starvation doesn't stop materializer creation
```

src/main/scala/akka/stream/SystemMaterializer.scala, line 88 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: systemMaterializerPromise
Enclosing Method: SystemMaterializer()
File: src/main/scala/akka/stream/SystemMaterializer.scala:88
Taint Flags:

```
85 Await.result(started, materializerTimeout.duration).materializer
86 }
87
88 val materializer: Materializer = {
89 // block on async creation to make it effectively final
90 Await.result(systemMaterializerPromise.future, materializerTimeout.duration)
91 }
```

src/main/scala/akka/stream/SystemMaterializer.scala, line 88 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: materializerTimeout
Enclosing Method: SystemMaterializer()
File: src/main/scala/akka/stream/SystemMaterializer.scala:88
Taint Flags:

```
85 Await.result(started, materializerTimeout.duration).materializer
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream

src/main/scala/akka/stream/SystemMaterializer.scala, line 88 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
86 }
87
88 val materializer: Materializer = {
89 // block on async creation to make it effectively final
90 Await.result(systemMaterializerPromise.future, materializerTimeout.duration)
91 }
```

src/main/scala/akka/stream/Supervision.scala, line 78 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: resumingDecider
Enclosing Method: Supervision()
File: src/main/scala/akka/stream/Supervision.scala:78
Taint Flags:

```
75 /**
76 * Java API: Decider function that returns [[#resume]] for all exceptions.
77 */
78 val getResumingDecider: japi.Function[Throwable, Directive] = resumingDecider
79
80 /**
81 * Scala API: [[Decider]] that returns [[Restart]] for all exceptions.
```

src/main/scala/akka/stream/Attributes.scala, line 654 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: apply$default$1
Enclosing Method: Attributes()
File: src/main/scala/akka/stream/Attributes.scala:654
Taint Flags:

```
651 def apply(attribute: Attribute): Attributes =
652 apply(attribute :: Nil)
653
654 val none: Attributes = Attributes()
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream

src/main/scala/akka/stream/Attributes.scala, line 654 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
655
656  val asyncBoundary: Attributes = Attributes(AsyncBoundary)
657
```

src/main/scala/akka/stream/Supervision.scala, line 65 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: stoppingDecider
Enclosing Method: Supervision()
File: src/main/scala/akka/stream/Supervision.scala:65
Taint Flags:

```
62  /**
63  * Java API: Decider function that returns [[#stop]] for all exceptions.
64  */
65  val getStoppingDecider: japi.Function[Throwable, Directive] = stoppingDecider
66
67  /**
68  * Scala API: [[Decider]] that returns [[Resume]] for all exceptions.
```

Package: akka.stream.impl

src/main/scala/akka/stream/impl/Unfold.scala, line 47 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: UnfoldAsync()
File: src/main/scala/akka/stream/impl/Unfold.scala:47
Taint Flags:

```
44 @InternalApi private[akka] final class UnfoldAsync[S, E](s: S, f: S => Future[Option[(S, E)]])
45  extends GraphStage[SourceShape[E]] {
46  val out: Outlet[E] = Outlet("UnfoldAsync.out")
47  override val shape: SourceShape[E] = SourceShape(out)
48  override def initialAttributes: Attributes = DefaultAttributes.unfoldAsync
49  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/Unfold.scala, line 47 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
50  new GraphStageLogic(shape) with OutHandler {
```

src/main/scala/akka/stream/impl/LazySource.scala, line 29 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: LazySource()
File: src/main/scala/akka/stream/impl/LazySource.scala:29
Taint Flags:

```
26 @InternalApi private[akka] final class LazySource[T, M](sourceFactory: () => Source[T, M])
27  extends GraphStageWithMaterializedValue[SourceShape[T], Future[M]] {
28  val out = Outlet[T]("LazySource.out")
29  override val shape = SourceShape(out)
30
31  override protected def initialAttributes = DefaultAttributes.lazySource and SourceLocation.forLambda(sourceFactory)
32
```

src/main/scala/akka/stream/impl/ActorProcessor.scala, line 180 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: waitingExposedPublisher
Enclosing Method: SimpleOutputs()
File: src/main/scala/akka/stream/impl/ActorProcessor.scala:180
Taint Flags:

```
177  override def demandCount: Long = downstreamDemand
178
179  override def subreceive = _subreceive
180  private val _subreceive = new SubReceive(waitingExposedPublisher)
181
182  def isSubscribed = subscriber ne null
183
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/Unfold.scala, line 23 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: Unfold()
File: src/main/scala/akka/stream/impl/Unfold.scala:23
Taint Flags:

```
20 */
21 @InternalApi private[akka] final class Unfold[S, E](s: S, f: S => Option[(S, E)]) extends GraphStage[SourceShape[E]] {
22 val out: Outlet[E] = Outlet("Unfold.out")
23 override val shape: SourceShape[E] = SourceShape(out)
24 override def initialAttributes: Attributes = DefaultAttributes.unfold
25 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
26 new GraphStageLogic(shape) with OutHandler {
```

src/main/scala/akka/stream/impl/MaybeSource.scala, line 23 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: MaybeSource()
File: src/main/scala/akka/stream/impl/MaybeSource.scala:23
Taint Flags:

```
20 @InternalApi private[akka] object MaybeSource
21 extends GraphStageWithMaterializedValue[SourceShape[AnyRef], Promise[Option[AnyRef]]] {
22 val out = Outlet[AnyRef]("MaybeSource.out")
23 override val shape = SourceShape(out)
24
25 override protected def initialAttributes = DefaultAttributes.maybeSource
26
```

src/main/scala/akka/stream/impl/ActorPublisher.scala, line 26 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/ActorPublisher.scala, line 26 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: NormalShutdownReason
Enclosing Method: ActorPublisher()
File: src/main/scala/akka/stream/impl/ActorPublisher.scala:26
Taint Flags:

```
23 val NormalShutdownReasonMessage = "Cannot subscribe to shut-down Publisher"
24 class NormalShutdownException extends IllegalStateException(NormalShutdownReasonMessage) with NoStackTrace
25 val NormalShutdownReason: Throwable = new NormalShutdownException
26 val SomeNormalShutdownReason: Some[Throwable] = Some(NormalShutdownReason)
27
28 def apply[T](impl: ActorRef): ActorPublisher[T] = {
29 val a = new ActorPublisher[T](impl)
```

src/main/scala/akka/stream/impl/MaterializerGuardian.scala, line 51 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$MaterializerGuardian$$startMaterializer
Enclosing Method: MaterializerGuardian()
File: src/main/scala/akka/stream/impl/MaterializerGuardian.scala:51
Taint Flags:

```
48 private val defaultAttributes = materializerSettings.toAttributes
49 private val defaultNamePrefix = "flow"
50
51 private val systemMaterializer = startMaterializer(defaultNamePrefix, None)
52 systemMaterializerPromise.success(systemMaterializer)
53
54 override def receive: Receive = {
```

src/main/scala/akka/stream/impl/EmptySource.scala, line 17 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: EmptySource()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/EmptySource.scala, line 17 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/impl/EmptySource.scala:17
Taint Flags:

```
14 */
15 @InternalApi private[akka] object EmptySource extends GraphStage[SourceShape[Nothing]] {
16 val out = Outlet[Nothing]("EmptySource.out")
17 override val shape = SourceShape(out)
18
19 override protected def initialAttributes = DefaultAttributes.emptySource
20
```

src/main/scala/akka/stream/impl/SetupStage.scala, line 28 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$SetupFlowStage$$in
Enclosing Method: SetupFlowStage()
File: src/main/scala/akka/stream/impl/SetupStage.scala:28
Taint Flags:

```
25
26 private val in = Inlet[T]("SetupFlowStage.in")
27 private val out = Outlet[U]("SetupFlowStage.out")
28 override val shape = FlowShape(in, out)
29
30 override protected def initialAttributes: Attributes = Attributes.name("setup") and SourceLocation.forLambda(factory)
31
```

src/main/scala/akka/stream/impl/Unfold.scala, line 89 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: UnfoldAsyncJava()
File: src/main/scala/akka/stream/impl/Unfold.scala:89
Taint Flags:

```
86 f: function.Function[S, CompletionStage[Optional[Pair[S, E]]]])
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/Unfold.scala, line 89 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
87  extends GraphStage[SourceShape[E]] {
88  val out: Outlet[E] = Outlet("UnfoldAsync.out")
89  override val shape: SourceShape[E] = SourceShape(out)
90  override def initialAttributes: Attributes = DefaultAttributes.unfoldAsync
91  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
92  new GraphStageLogic(shape) with OutHandler {
```

src/main/scala/akka/stream/impl/RetryFlowCoordinator.scala, line 50 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$RetryFlowCoordinator$$externalIn
Enclosing Method: RetryFlowCoordinator()
File: src/main/scala/akka/stream/impl/RetryFlowCoordinator.scala:50
Taint Flags:

```
47  private val internalIn = Inlet[Out]("RetryFlow.internalIn")
48
49  override val shape: BidiShape[In, In, Out, Out] =
50  BidiShape(externalIn, internalOut, internalIn, externalOut)
51
52  override def createLogic(attributes: Attributes): GraphStageLogic = new TimerGraphStageLogic(shape) {
53
```

src/main/scala/akka/stream/impl/FailedSource.scala, line 17 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: FailedSource()
File: src/main/scala/akka/stream/impl/FailedSource.scala:17
Taint Flags:

```
14  */
15  @InternalApi private[akka] final class FailedSource[T](failure: Throwable) extends GraphStage[SourceShape[T]] {
16  val out = Outlet[T]("FailedSource.out")
17  override val shape = SourceShape(out)
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/FailedSource.scala, line 17 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
18
19 override protected def initialAttributes: Attributes = DefaultAttributes.failedSource
20
```

src/main/scala/akka/stream/impl/SingleConcat.scala, line 29 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: SingleConcat()
File: src/main/scala/akka/stream/impl/SingleConcat.scala:29
Taint Flags:

```
26 val in = Inlet[E]("SingleConcat.in")
27 val out = Outlet[E]("SingleConcat.out")
28
29 override val shape: FlowShape[E, E] = FlowShape(in, out)
30
31 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
32 new GraphStageLogic(shape) with InHandler with OutHandler {
```

src/main/scala/akka/stream/impl/MaterializerGuardian.scala, line 51 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$MaterializerGuardian$$defaultNamePrefix
Enclosing Method: MaterializerGuardian()
File: src/main/scala/akka/stream/impl/MaterializerGuardian.scala:51
Taint Flags:

```
48 private val defaultAttributes = materializerSettings.toAttributes
49 private val defaultNamePrefix = "flow"
50
51 private val systemMaterializer = startMaterializer(defaultNamePrefix, None)
52 systemMaterializerPromise.success(systemMaterializer)
53
54 override def receive: Receive = {
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/FanoutProcessor.scala, line 126 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: timeoutMode
Enclosing Method: FanoutProcessorImpl()
File: src/main/scala/akka/stream/impl/FanoutProcessor.scala:126
Taint Flags:

```
123 @InternalApi private[akka] class FanoutProcessorImpl(attributes: Attributes) extends ActorProcessorImpl(attributes) {
124
125 val StreamSubscriptionTimeout(timeout, timeoutMode) = attributes.mandatoryAttribute[StreamSubscriptionTimeout]
126 val timeoutTimer = if (timeoutMode != StreamSubscriptionTimeoutTerminationMode.noop) {
127 import context.dispatcher
128 OptionVal.Some(context.system.scheduler.scheduleOnce(timeout, self, ActorProcessorImpl.SubscriptionTimeout))
129 } else OptionVal.None
```

src/main/scala/akka/stream/impl/StreamLayout.scala, line 537 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: outPort
Enclosing Method: ProcessorModule()
File: src/main/scala/akka/stream/impl/StreamLayout.scala:537
Taint Flags:

```
534 extends StreamLayout.AtomicModule[FlowShape[In, Out], Mat] {
535 val inPort = Inlet[In]("ProcessorModule.in")
536 val outPort = Outlet[Out]("ProcessorModule.out")
537 override val shape = new FlowShape(inPort, outPort)
538
539 override def withAttributes(attributes: Attributes) = copy(attributes = attributes)
540 override def toString: String = f"ProcessorModule [${System.identityHashCode(this)}%08x]"
```

src/main/scala/akka/stream/impl/JavaStreamSource.scala, line 17 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/JavaStreamSource.scala, line 17 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: out
Enclosing Method: JavaStreamSource()
File: src/main/scala/akka/stream/impl/JavaStreamSource.scala:17
Taint Flags:

```
14 extends GraphStage[SourceShape[T]] {
15
16 val out: Outlet[T] = Outlet("JavaStreamSource")
17 override val shape: SourceShape[T] = SourceShape(out)
18
19 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
20 new GraphStageLogic(shape) with OutHandler {
```

src/main/scala/akka/stream/impl/SingleConcat.scala, line 29 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: SingleConcat()
File: src/main/scala/akka/stream/impl/SingleConcat.scala:29
Taint Flags:

```
26 val in = Inlet[E]("SingleConcat.in")
27 val out = Outlet[E]("SingleConcat.out")
28
29 override val shape: FlowShape[E, E] = FlowShape(in, out)
30
31 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
32 new GraphStageLogic(shape) with InHandler with OutHandler {
```

src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala, line 193 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: baseName
Enclosing Method: StreamSupervisor()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala, line 193 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala:193
Taint Flags:

```
190 .withDeploy(Deploy.local)
191 .withDispatcher(attributes.mandatoryAttribute[ActorAttributes.Dispatcher].dispatcher)
192 private[stream] val baseName = "StreamSupervisor"
193 private val actorName = SeqActorName(baseName)
194 def nextName(): String = actorName.next()
195
196 final case class Materialize(props: Props, name: String)
```

src/main/scala/akka/stream/impl/Sinks.scala, line 241 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: SeqStage()
File: src/main/scala/akka/stream/impl/Sinks.scala:241
Taint Flags:

```
238
239 override def toString: String = "SeqStage"
240
241 override val shape: SinkShape[T] = SinkShape.of(in)
242
243 override protected def initialAttributes: Attributes = DefaultAttributes.seqSink
244
```

src/main/scala/akka/stream/impl/Throttle.scala, line 47 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: effectiveMaximumBurst
Enclosing Method: Throttle()
File: src/main/scala/akka/stream/impl/Throttle.scala:47
Taint Flags:

```
44 val effectiveMaximumBurst: Long =
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/Throttle.scala, line 47 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
45 if (maximumBurst == Throttle.AutomaticMaximumBurst) math.max(1, ((100 * 1000 * 1000) / nanosBetweenTokens))
46 else maximumBurst
47 require(!(mode == ThrottleMode.Enforcing && effectiveMaximumBurst < 0), "maximumBurst must be > 0 in Enforcing mode")
48
49 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
50 new TimerGraphStageLogic(shape) with InHandler with OutHandler {
```

src/main/scala/akka/stream/impl/TraversalBuilder.scala, line 622 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: apply$default$8
Enclosing Method: LinearTraversalBuilder()
File: src/main/scala/akka/stream/impl/TraversalBuilder.scala:622
Taint Flags:

```
619
620 // TODO: Remove
621 private val cachedEmptyLinear =
622 LinearTraversalBuilder(OptionVal.None, OptionVal.None, 0, 0, PushNotUsed, OptionVal.None, Attributes.none)
623
624 private[this] final val wireBackward: Array[Int] = Array(-1)
625 private[this] final val noWire: Array[Int] = Array()
```

src/main/scala/akka/stream/impl/RetryFlowCoordinator.scala, line 50 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$RetryFlowCoordinator$$externalOut
Enclosing Method: RetryFlowCoordinator()
File: src/main/scala/akka/stream/impl/RetryFlowCoordinator.scala:50
Taint Flags:

```
47 private val internalIn = Inlet[Out]("RetryFlow.internalIn")
48
49 override val shape: BidiShape[In, In, Out, Out] =
50 BidiShape(externalIn, internalOut, internalIn, externalOut)
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/RetryFlowCoordinator.scala, line 50 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
51
52 override def createLogic(attributes: Attributes): GraphStageLogic = new TimerGraphStageLogic(shape) {
53
```

src/main/scala/akka/stream/impl/BoundedSourceQueue.scala, line 36 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: BoundedSourceQueueStage()
File: src/main/scala/akka/stream/impl/BoundedSourceQueue.scala:36
Taint Flags:

```
33 require(bufferSize > 0, "BoundedSourceQueueStage.bufferSize must be > 0")
34
35 val out = Outlet[T]("BoundedSourceQueueStage.out")
36 val shape = SourceShape(out)
37
38 override def createLogicAndMaterializedValue(
39 inheritedAttributes: Attributes): (GraphStageLogic, BoundedSourceQueue[T]) = {
```

src/main/scala/akka/stream/impl/Sinks.scala, line 298 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: QueueSink()
File: src/main/scala/akka/stream/impl/Sinks.scala:298
Taint Flags:

```
295
296 val in = Inlet[T]("queueSink.in")
297 override def initialAttributes = DefaultAttributes.queueSink
298 override val shape: SinkShape[T] = SinkShape.of(in)
299
300 override def toString: String = "QueueSink"
301
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/ActorRefBackpressureSource.scala, line 31 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: ActorRefBackpressureSource()
File: src/main/scala/akka/stream/impl/ActorRefBackpressureSource.scala:31
Taint Flags:

```
28
29 val out: Outlet[T] = Outlet[T]("actorRefSource.out")
30
31 override val shape: SourceShape[T] = SourceShape.of(out)
32 override def initialAttributes: Attributes = DefaultAttributes.actorRefWithBackpressureSource
33
34 def createLogicAndMaterializedValue(inheritedAttributes: Attributes): (GraphStageLogic, ActorRef) =
```

src/main/scala/akka/stream/impl/ActorRefSource.scala, line 31 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: ActorRefSource()
File: src/main/scala/akka/stream/impl/ActorRefSource.scala:31
Taint Flags:

```
28
29 val out: Outlet[T] = Outlet[T]("actorRefSource.out")
30
31 override val shape: SourceShape[T] = SourceShape.of(out)
32
33 def createLogicAndMaterializedValue(inheritedAttributes: Attributes): (GraphStageLogic, ActorRef) =
34 throw new IllegalStateException("Not supported")
```

src/main/scala/akka/stream/impl/Sinks.scala, line 153 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/Sinks.scala, line 153 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: in
Enclosing Method: TakeLastStage()
File: src/main/scala/akka/stream/impl/Sinks.scala:153
Taint Flags:

```
150
151 val in: Inlet[T] = Inlet("takeLast.in")
152
153 override val shape: SinkShape[T] = SinkShape.of(in)
154
155 override def createLogicAndMaterializedValue(inheritedAttributes: Attributes) = {
156 val p: Promise[immutable.Seq[T]] = Promise()
```

src/main/scala/akka/stream/impl/UnfoldResourceSource.scala, line 25 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: UnfoldResourceSource()
File: src/main/scala/akka/stream/impl/UnfoldResourceSource.scala:25
Taint Flags:

```
22 close: (S) => Unit)
23 extends GraphStage[SourceShape[T]] {
24 val out = Outlet[T]("UnfoldResourceSource.out")
25 override val shape = SourceShape(out)
26 override def initialAttributes: Attributes = DefaultAttributes.unfoldResourceSource
27
28 def createLogic(inheritedAttributes: Attributes) = new GraphStageLogic(shape) with OutHandler {
```

src/main/scala/akka/stream/impl/RetryFlowCoordinator.scala, line 50 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$RetryFlowCoordinator$$internalOut
Enclosing Method: RetryFlowCoordinator()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/RetryFlowCoordinator.scala, line 50 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/impl/RetryFlowCoordinator.scala:50
Taint Flags:

```
47 private val internalIn = Inlet[Out]("RetryFlow.internalIn")
48
49 override val shape: BidiShape[In, In, Out, Out] =
50 BidiShape(externalIn, internalOut, internalIn, externalOut)
51
52 override def createLogic(attributes: Attributes): GraphStageLogic = new TimerGraphStageLogic(shape) {
53
```

src/main/scala/akka/stream/impl/SetupStage.scala, line 28 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$SetupFlowStage$$out
Enclosing Method: SetupFlowStage()
File: src/main/scala/akka/stream/impl/SetupStage.scala:28
Taint Flags:

```
25
26 private val in = Inlet[T]("SetupFlowStage.in")
27 private val out = Outlet[U]("SetupFlowStage.out")
28 override val shape = FlowShape(in, out)
29
30 override protected def initialAttributes: Attributes = Attributes.name("setup") and SourceLocation.forLambda(factory)
31
```

src/main/scala/akka/stream/impl/QueueSource.scala, line 41 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: QueueSource()
File: src/main/scala/akka/stream/impl/QueueSource.scala:41
Taint Flags:

```
38 require(maxConcurrentOffers > 0, "Max concurrent offers must be greater than 0")
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/QueueSource.scala, line 41 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
39
40  val out = Outlet[T]("queueSource.out")
41  override val shape: SourceShape[T] = SourceShape.of(out)
42
43  override def createLogicAndMaterializedValue(inheritedAttributes: Attributes) = {
44  val completion = Promise[Done]()
```

src/main/scala/akka/stream/impl/Sinks.scala, line 516 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: LazySink()
File: src/main/scala/akka/stream/impl/Sinks.scala:516
Taint Flags:

```
513  extends GraphStageWithMaterializedValue[SinkShape[T], Future[M]] {
514  val in = Inlet[T]("lazySink.in")
515  override def initialAttributes = DefaultAttributes.lazySink and SourceLocation.forLambda(sinkFactory)
516  override val shape: SinkShape[T] = SinkShape.of(in)
517
518  override def toString: String = "LazySink"
519
```

src/main/scala/akka/stream/impl/SetupStage.scala, line 71 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$SetupSourceStage$$out
Enclosing Method: SetupSourceStage()
File: src/main/scala/akka/stream/impl/SetupStage.scala:71
Taint Flags:

```
68  extends GraphStageWithMaterializedValue[SourceShape[T], Future[M]] {
69
70  private val out = Outlet[T]("SetupSourceStage.out")
71  override val shape = SourceShape(out)
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/SetupStage.scala, line 71 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
72
73  override protected def initialAttributes: Attributes = Attributes.name("setup") and SourceLocation.forLambda(factory)
74
```

src/main/scala/akka/stream/impl/FanoutProcessor.scala, line 126 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: timeout
Enclosing Method: FanoutProcessorImpl()
File: src/main/scala/akka/stream/impl/FanoutProcessor.scala:126
Taint Flags:

```
123 @InternalApi private[akka] class FanoutProcessorImpl(attributes: Attributes) extends ActorProcessorImpl(attributes) {
124
125  val StreamSubscriptionTimeout(timeout, timeoutMode) = attributes.mandatoryAttribute[StreamSubscriptionTimeout]
126  val timeoutTimer = if (timeoutMode != StreamSubscriptionTimeoutTerminationMode.noop) {
127  import context.dispatcher
128  OptionVal.Some(context.system.scheduler.scheduleOnce(timeout, self, ActorProcessorImpl.SubscriptionTimeout))
129  } else OptionVal.None
```

src/main/scala/akka/stream/impl/RetryFlowCoordinator.scala, line 50 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$RetryFlowCoordinator$$internalIn
Enclosing Method: RetryFlowCoordinator()
File: src/main/scala/akka/stream/impl/RetryFlowCoordinator.scala:50
Taint Flags:

```
47  private val internalIn = Inlet[Out]("RetryFlow.internalIn")
48
49  override val shape: BidiShape[In, In, Out, Out] =
50  BidiShape(externalIn, internalOut, internalIn, externalOut)
51
52  override def createLogic(attributes: Attributes): GraphStageLogic = new TimerGraphStageLogic(shape) {
53
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/Throttle.scala, line 45 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$Throttle$$nanosBetweenTokens
Enclosing Method: Throttle()
File: src/main/scala/akka/stream/impl/Throttle.scala:45
Taint Flags:

```
42 // 100 ms is a realistic minimum between tokens, otherwise the maximumBurst is adjusted
43 // to be able to support higher rates
44 val effectiveMaximumBurst: Long =
45 if (maximumBurst == Throttle.AutomaticMaximumBurst) math.max(1, ((100 * 1000 * 1000) / nanosBetweenTokens))
46 else maximumBurst
47 require(!(mode == ThrottleMode.Enforcing && effectiveMaximumBurst < 0), "maximumBurst must be > 0 in Enforcing mode")
48
```

src/main/scala/akka/stream/impl/Sinks.scala, line 199 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: HeadOptionStage()
File: src/main/scala/akka/stream/impl/Sinks.scala:199
Taint Flags:

```
196
197 val in: Inlet[T] = Inlet("headOption.in")
198
199 override val shape: SinkShape[T] = SinkShape.of(in)
200
201 override def createLogicAndMaterializedValue(inheritedAttributes: Attributes) = {
202 val p: Promise[Option[T]] = Promise()
```

src/main/scala/akka/stream/impl/StreamLayout.scala, line 537 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/StreamLayout.scala, line 537 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: inPort
Enclosing Method: ProcessorModule()
File: src/main/scala/akka/stream/impl/StreamLayout.scala:537
Taint Flags:

```
534 extends StreamLayout.AtomicModule[FlowShape[In, Out], Mat] {
535 val inPort = Inlet[In]("ProcessorModule.in")
536 val outPort = Outlet[Out]("ProcessorModule.out")
537 override val shape = new FlowShape(inPort, outPort)
538
539 override def withAttributes(attributes: Attributes) = copy(attributes = attributes)
540 override def toString: String = f"ProcessorModule [${System.identityHashCode(this)}%08x]"
```

src/main/scala/akka/stream/impl/UnfoldResourceSourceAsync.scala, line 28 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: UnfoldResourceSourceAsync()
File: src/main/scala/akka/stream/impl/UnfoldResourceSourceAsync.scala:28
Taint Flags:

```
25 close: (S) => Future[Done])
26 extends GraphStage[SourceShape[T]] {
27 val out = Outlet[T]("UnfoldResourceSourceAsync.out")
28 override val shape = SourceShape(out)
29 override def initialAttributes: Attributes = DefaultAttributes.unfoldResourceSourceAsync
30
31 def createLogic(inheritedAttributes: Attributes) = new GraphStageLogic(shape) with OutHandler {
```

src/main/scala/akka/stream/impl/MaterializerGuardian.scala, line 52 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: systemMaterializer
Enclosing Method: MaterializerGuardian()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/MaterializerGuardian.scala, line 52 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/impl/MaterializerGuardian.scala:52
Taint Flags:

```
49 private val defaultNamePrefix = "flow"
50
51 private val systemMaterializer = startMaterializer(defaultNamePrefix, None)
52 systemMaterializerPromise.success(systemMaterializer)
53
54 override def receive: Receive = {
55 case StartMaterializer =>
```

src/main/scala/akka/stream/impl/ActorRefBackpressureSinkStage.scala, line 29 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: ActorRefBackpressureSinkStage()
File: src/main/scala/akka/stream/impl/ActorRefBackpressureSinkStage.scala:29
Taint Flags:

```
26 extends GraphStage[SinkShape[In]] {
27 val in: Inlet[In] = Inlet[In]("ActorRefBackpressureSink.in")
28 override def initialAttributes: Attributes = DefaultAttributes.actorRefWithBackpressureSink
29 override val shape: SinkShape[In] = SinkShape(in)
30
31 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
32 new GraphStageLogic(shape) with InHandler {
```

src/main/scala/akka/stream/impl/PhasedFusingActorMaterializer.scala, line 189 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: nextIslandName
Enclosing Method: IslandTracking()
File: src/main/scala/akka/stream/impl/PhasedFusingActorMaterializer.scala:189
Taint Flags:

```
186 private var forwardWires: java.util.ArrayList[ForwardWire] = _
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/PhasedFusingActorMaterializer.scala, line 189 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
187 private var islandStateStack: java.util.ArrayList[SavedIslandData] = _
188
189 private var currentPhase: PhaseIsland[Any] = defaultPhase.apply(settings, attributes, materializer, nextIslandName())
190
191 @InternalApi private[akka] def getCurrentPhase: PhaseIsland[Any] = currentPhase
192 @InternalApi private[akka] def getCurrentOffset: Int = currentGlobalOffset
```

src/main/scala/akka/stream/impl/TraversalBuilder.scala, line 622 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: apply$default$9
Enclosing Method: LinearTraversalBuilder()
File: src/main/scala/akka/stream/impl/TraversalBuilder.scala:622
Taint Flags:

```
619
620 // TODO: Remove
621 private val cachedEmptyLinear =
622 LinearTraversalBuilder(OptionVal.None, OptionVal.None, 0, 0, PushNotUsed, OptionVal.None, Attributes.none)
623
624 private[this] final val wireBackward: Array[Int] = Array(-1)
625 private[this] final val noWire: Array[Int] = Array()
```

src/main/scala/akka/stream/impl/FanoutProcessor.scala, line 157 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: running
Enclosing Method: FanoutProcessorImpl()
File: src/main/scala/akka/stream/impl/FanoutProcessor.scala:157
Taint Flags:

```
154
155 def afterFlush(): Unit = context.stop(self)
156
157 initialPhase(1, running)
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/FanoutProcessor.scala, line 157 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
158
159 def subTimeoutHandling: Receive = {
160 case ActorProcessorImpl.SubscriptionTimeout =>
```

src/main/scala/akka/stream/impl/PhasedFusingActorMaterializer.scala, line 65 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: DefaultPhase
Enclosing Method: PhasedFusingActorMaterializer()
File: src/main/scala/akka/stream/impl/PhasedFusingActorMaterializer.scala:65
Taint Flags:

```
62 .asInstanceOf[PhaseIsland[Any]]
63 }
64
65 val DefaultPhases: Map[IslandTag, Phase[Any]] = Map[IslandTag, Phase[Any]](
66 SinkModuleIslandTag -> new Phase[Any] {
67 override def apply(
68 settings: ActorMaterializerSettings,
```

src/main/scala/akka/stream/impl/FanoutProcessor.scala, line 138 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: primaryOutputs
Enclosing Method: FanoutProcessorImpl()
File: src/main/scala/akka/stream/impl/FanoutProcessor.scala:138
Taint Flags:

```
135 }
136 }
137
138 val running: TransferPhase = TransferPhase(primaryInputs.NeedsInput && primaryOutputs.NeedsDemand) { () =>
139 primaryOutputs.enqueueOutputElement(primaryInputs.dequeueInputElement())
140 }
141
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala, line 686 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$fusing$SubSink$$in
Enclosing Method: SubSink()
File: src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala:686
Taint Flags:

```
683 private val in = Inlet[T](s"SubSink($name).in")
684
685 override def initialAttributes = Attributes.name(s"SubSink($name)")
686 override val shape = SinkShape(in)
687
688 private val status = new AtomicReference[ /* State */ AnyRef](Uninitialized)
689
```

src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala, line 743 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$fusing$ActorGraphInterpreter$$eventLimit
Enclosing Method: ActorGraphInterpreter()
File: src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala:743
Taint Flags:

```
740
741 //this limits number of messages that can be processed synchronously during one actor receive.
742 private val eventLimit: Int = _initial.attributes.mandatoryAttribute[ActorAttributes.SyncProcessingLimit].limit
743 private var currentLimit: Int = eventLimit
744 //this is a var in order to save the allocation when no short-circuiting actually happens
745 private var shortCircuitBuffer: util.ArrayDeque[Any] = null
746
```

src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala, line 40 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala, line 40 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: akka$stream$impl$fusing$FlattenMerge$$in
Enclosing Method: FlattenMerge()
File: src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala:40
Taint Flags:

```
37 private val out = Outlet[T]("flatten.out")
38
39 override def initialAttributes = DefaultAttributes.flattenMerge
40 override val shape = FlowShape(in, out)
41
42 override def createLogic(enclosingAttributes: Attributes) =
43 new GraphStageLogic(shape) with OutHandler with InHandler {
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1187 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$fusing$Expand$$out
Enclosing Method: Expand()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:1187
Taint Flags:

```
1184
1185 override def initialAttributes = DefaultAttributes.expand and SourceLocation.forLambda(extrapolate)
1186
1187 override val shape = FlowShape(in, out)
1188
1189 override def createLogic(attr: Attributes) = new GraphStageLogic(shape) with InHandler with OutHandler {
1190 private var iterator: Iterator[Out] = Iterator.empty
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 647 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: FoldAsync()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 647 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/impl/fusing/Ops.scala:647
Taint Flags:

```
644
645 val in = Inlet[In]("FoldAsync.in")
646 val out = Outlet[Out]("FoldAsync.out")
647 val shape = FlowShape.of(in, out)
648
649 override def toString: String = "FoldAsync"
650
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 468 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: ScanAsync()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:468
Taint Flags:

```
465
466 val in = Inlet[In]("ScanAsync.in")
467 val out = Outlet[Out]("ScanAsync.out")
468 override val shape: FlowShape[In, Out] = FlowShape[In, Out](in, out)
469
470 override val initialAttributes: Attributes = Attributes.name("scanAsync") and SourceLocation.forLambda(f)
471
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 237 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: Collect()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:237
Taint Flags:

```
234 extends GraphStage[FlowShape[In, Out]] {
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 237 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
235  val in = Inlet[In]("Collect.in")
236  val out = Outlet[Out]("Collect.out")
237  override val shape = FlowShape(in, out)
238
239  override def initialAttributes: Attributes = DefaultAttributes.collect and SourceLocation.forLambda(pf)
240
```

src/main/scala/akka/stream/impl/fusing/FlatMapPrefix.scala, line 25 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: FlatMapPrefix()
File: src/main/scala/akka/stream/impl/fusing/FlatMapPrefix.scala:25
Taint Flags:

```
22
23  val in = Inlet[In]("FlatMapPrefix.in")
24  val out = Outlet[Out]("FlatMapPrefix.out")
25  override val shape: FlowShape[In, Out] = FlowShape(in, out)
26
27  override def initialAttributes: Attributes = DefaultAttributes.flatMapPrefix and SourceLocation.forLambda(f)
28
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 783 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: GroupedWeighted()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:783
Taint Flags:

```
780
781  val in = Inlet[T]("GroupedWeighted.in")
782  val out = Outlet[immutable.Seq[T]]("GroupedWeighted.out")
783  override val shape: FlowShape[T, immutable.Seq[T]] = FlowShape(in, out)
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 783 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
784
785 override def initialAttributes: Attributes = DefaultAttributes.groupedWeighted
786
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 877 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: Sliding()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:877
Taint Flags:

```
874
875 val in = Inlet[T]("Sliding.in")
876 val out = Outlet[immutable.Seq[T]]("Sliding.out")
877 override val shape: FlowShape[T, immutable.Seq[T]] = FlowShape(in, out)
878
879 override protected val initialAttributes: Attributes = DefaultAttributes.sliding
880
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 41 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: Map()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:41
Taint Flags:

```
38 @InternalApi private[akka] final case class Map[In, Out](f: In => Out) extends GraphStage[FlowShape[In, Out]] {
39 val in = Inlet[In]("Map.in")
40 val out = Outlet[Out]("Map.out")
41 override val shape = FlowShape(in, out)
42
43 override def initialAttributes: Attributes = DefaultAttributes.map and SourceLocation.forLambda(f)
44
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala, line 776 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: SubSource()
File: src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala:776
Taint Flags:

```
773
774 val out: Outlet[T] = Outlet(s"SubSource($name).out")
775 override def initialAttributes = Attributes.name(s"SubSource($name)")
776 override val shape: SourceShape[T] = SourceShape(out)
777
778 private val status = new AtomicReference[AnyRef]
779
```

src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala, line 40 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$fusing$FlattenMerge$$out
Enclosing Method: FlattenMerge()
File: src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala:40
Taint Flags:

```
37 private val out = Outlet[T]("flatten.out")
38
39 override def initialAttributes = DefaultAttributes.flattenMerge
40 override val shape = FlowShape(in, out)
41
42 override def createLogic(enclosingAttributes: Attributes) =
43 new GraphStageLogic(shape) with OutHandler with InHandler {
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1387 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1387 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: akka$stream$impl$fusing$MapAsyncUnordered$$out
Enclosing Method: MapAsyncUnordered()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:1387
Taint Flags:

```
1384
1385 override def initialAttributes = DefaultAttributes.mapAsyncUnordered and SourceLocation.forLambda(f)
1386
1387 override val shape = FlowShape(in, out)
1388
1389 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
1390 new GraphStageLogic(shape) with InHandler with OutHandler {
```

src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala, line 483 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: Split()
File: src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala:483
Taint Flags:

```
480 val in: Inlet[T] = Inlet("Split.in")
481 val out: Outlet[Source[T, NotUsed]] = Outlet("Split.out")
482
483 override val shape: FlowShape[T, Source[T, NotUsed]] = FlowShape(in, out)
484
485 private val propagateSubstreamCancel = substreamCancelStrategy match {
486 case SubstreamCancelStrategies.Propagate => true
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 877 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: Sliding()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 877 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/impl/fusing/Ops.scala:877
Taint Flags:

```
874
875 val in = Inlet[T]("Sliding.in")
876 val out = Outlet[immutable.Seq[T]]("Sliding.out")
877 override val shape: FlowShape[T, immutable.Seq[T]] = FlowShape(in, out)
878
879 override protected val initialAttributes: Attributes = DefaultAttributes.sliding
880
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 647 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: FoldAsync()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:647
Taint Flags:

```
644
645 val in = Inlet[In]("FoldAsync.in")
646 val out = Outlet[Out]("FoldAsync.out")
647 val shape = FlowShape.of(in, out)
648
649 override def toString: String = "FoldAsync"
650
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 237 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: Collect()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:237
Taint Flags:

```
234 extends GraphStage[FlowShape[In, Out]] {
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 237 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
235  val in = Inlet[In]("Collect.in")
236  val out = Outlet[Out]("Collect.out")
237  override val shape = FlowShape(in, out)
238
239  override def initialAttributes: Attributes = DefaultAttributes.collect and SourceLocation.forLambda(pf)
240
```

src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala, line 592 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shellEventLimit
Enclosing Method: GraphInterpreterShell()
File: src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala:592
Taint Flags:

```
589  val shellEventLimit = attributes.mandatoryAttribute[Attributes.InputBuffer].max * 16
590  // Limits the number of events processed by the interpreter on an abort event.
591  // TODO: Better heuristic here
592  private val abortLimit = shellEventLimit * 2
593  private var resumeScheduled = false
594
595  def isInitialized: Boolean = self != null
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1754 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: GroupedWeightedWithin()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:1754
Taint Flags:

```
1751
1752  override def initialAttributes = DefaultAttributes.groupedWeightedWithin and SourceLocation.forLambda(costFn)
1753
1754  val shape = FlowShape(in, out)
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1754 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
1755
1756  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
1757  new TimerGraphStageLogic(shape) with InHandler with OutHandler {
```

src/main/scala/akka/stream/impl/fusing/AggregateWithBoundary.scala, line 30 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: AggregateWithBoundary()
File: src/main/scala/akka/stream/impl/fusing/AggregateWithBoundary.scala:30
Taint Flags:

```
27
28  val in: Inlet[In] = Inlet[In](s"${this.getClass.getName}.in")
29  val out: Outlet[Out] = Outlet[Out](s"${this.getClass.getName}.out")
30  override val shape: FlowShape[In, Out] = FlowShape(in, out)
31
32  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
33  new TimerGraphStageLogic(shape) with InHandler with OutHandler {
```

src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala, line 264 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: GroupBy()
File: src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala:264
Taint Flags:

```
261  extends GraphStage[FlowShape[T, Source[T, NotUsed]]] {
262  val in: Inlet[T] = Inlet("GroupBy.in")
263  val out: Outlet[Source[T, NotUsed]] = Outlet("GroupBy.out")
264  override val shape: FlowShape[T, Source[T, NotUsed]] = FlowShape(in, out)
265  override def initialAttributes = DefaultAttributes.groupBy
266
267  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/FlatMapPrefix.scala, line 25 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: FlatMapPrefix()
File: src/main/scala/akka/stream/impl/fusing/FlatMapPrefix.scala:25
Taint Flags:

```
22
23 val in = Inlet[In]("FlatMapPrefix.in")
24 val out = Outlet[Out]("FlatMapPrefix.out")
25 override val shape: FlowShape[In, Out] = FlowShape(in, out)
26
27 override def initialAttributes: Attributes = DefaultAttributes.flatMapPrefix and SourceLocation.forLambda(f)
28
```

src/main/scala/akka/stream/impl/fusing/AggregateWithBoundary.scala, line 30 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: AggregateWithBoundary()
File: src/main/scala/akka/stream/impl/fusing/AggregateWithBoundary.scala:30
Taint Flags:

```
27
28 val in: Inlet[In] = Inlet[In](s"${this.getClass.getName}.in")
29 val out: Outlet[Out] = Outlet[Out](s"${this.getClass.getName}.out")
30 override val shape: FlowShape[In, Out] = FlowShape(in, out)
31
32 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
33 new TimerGraphStageLogic(shape) with InHandler with OutHandler {
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 2208 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 2208 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: in
Enclosing Method: StatefulMapConcat()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:2208
Taint Flags:

```
2205 extends GraphStage[FlowShape[In, Out]] {
2206 val in = Inlet[In]("StatefulMapConcat.in")
2207 val out = Outlet[Out]("StatefulMapConcat.out")
2208 override val shape = FlowShape(in, out)
2209
2210 override def initialAttributes: Attributes = DefaultAttributes.statefulMapConcat and SourceLocation.forLambda(f)
2211
```

src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala, line 483 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: Split()
File: src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala:483
Taint Flags:

```
480 val in: Inlet[T] = Inlet("Split.in")
481 val out: Outlet[Source[T, NotUsed]] = Outlet("Split.out")
482
483 override val shape: FlowShape[T, Source[T, NotUsed]] = FlowShape(in, out)
484
485 private val propagateSubstreamCancel = substreamCancelStrategy match {
486 case SubstreamCancelStrategies.Propagate => true
```

src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala, line 145 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: PrefixAndTail()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala, line 145 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala:145
Taint Flags:

```
142 extends GraphStage[FlowShape[T, (immutable.Seq[T], Source[T, NotUsed])]] {
143 val in: Inlet[T] = Inlet("PrefixAndTail.in")
144 val out: Outlet[(immutable.Seq[T], Source[T, NotUsed])] = Outlet("PrefixAndTail.out")
145 override val shape: FlowShape[T, (immutable.Seq[T], Source[T, NotUsed])] = FlowShape(in, out)
146
147 override def initialAttributes = DefaultAttributes.prefixAndTail
148
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1387 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$fusing$MapAsyncUnordered$$in
Enclosing Method: MapAsyncUnordered()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:1387
Taint Flags:

```
1384
1385 override def initialAttributes = DefaultAttributes.mapAsyncUnordered and SourceLocation.forLambda(f)
1386
1387 override val shape = FlowShape(in, out)
1388
1389 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
1390 new GraphStageLogic(shape) with InHandler with OutHandler {
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 588 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: Fold()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:588
Taint Flags:

```
585
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 588 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
586  val in = Inlet[In]("Fold.in")
587  val out = Outlet[Out]("Fold.out")
588  override val shape: FlowShape[In, Out] = FlowShape(in, out)
589
590  override def toString: String = "Fold"
591
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 2208 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: StatefulMapConcat()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:2208
Taint Flags:

```
2205  extends GraphStage[FlowShape[In, Out]] {
2206  val in = Inlet[In]("StatefulMapConcat.in")
2207  val out = Outlet[Out]("StatefulMapConcat.out")
2208  override val shape = FlowShape(in, out)
2209
2210  override def initialAttributes: Attributes = DefaultAttributes.statefulMapConcat and SourceLocation.forLambda(f)
2211
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 588 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: Fold()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:588
Taint Flags:

```
585
586  val in = Inlet[In]("Fold.in")
587  val out = Outlet[Out]("Fold.out")
588  override val shape: FlowShape[In, Out] = FlowShape(in, out)
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 588 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
589
590 override def toString: String = "Fold"
591
```

src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala, line 264 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: GroupBy()
File: src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala:264
Taint Flags:

```
261 extends GraphStage[FlowShape[T, Source[T, NotUsed]]] {
262 val in: Inlet[T] = Inlet("GroupBy.in")
263 val out: Outlet[Source[T, NotUsed]] = Outlet("GroupBy.out")
264 override val shape: FlowShape[T, Source[T, NotUsed]] = FlowShape(in, out)
265 override def initialAttributes = DefaultAttributes.groupBy
266
267 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1754 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: GroupedWeightedWithin()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:1754
Taint Flags:

```
1751
1752 override def initialAttributes = DefaultAttributes.groupedWeightedWithin and SourceLocation.forLambda(costFn)
1753
1754 val shape = FlowShape(in, out)
1755
1756 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
1757 new TimerGraphStageLogic(shape) with InHandler with OutHandler {
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala, line 145 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: PrefixAndTail()
File: src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala:145
Taint Flags:

```
142 extends GraphStage[FlowShape[T, (immutable.Seq[T], Source[T, NotUsed])]] {
143 val in: Inlet[T] = Inlet("PrefixAndTail.in")
144 val out: Outlet[(immutable.Seq[T], Source[T, NotUsed])] = Outlet("PrefixAndTail.out")
145 override val shape: FlowShape[T, (immutable.Seq[T], Source[T, NotUsed])] = FlowShape(in, out)
146
147 override def initialAttributes = DefaultAttributes.prefixAndTail
148
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 41 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: Map()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:41
Taint Flags:

```
38 @InternalApi private[akka] final case class Map[In, Out](f: In => Out) extends GraphStage[FlowShape[In, Out]] {
39 val in = Inlet[In]("Map.in")
40 val out = Outlet[Out]("Map.out")
41 override val shape = FlowShape(in, out)
42
43 override def initialAttributes: Attributes = DefaultAttributes.map and SourceLocation.forLambda(f)
44
```

src/main/scala/akka/stream/impl/fusing/FutureFlow.scala, line 29 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/FutureFlow.scala, line 29 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: out
Enclosing Method: FutureFlow()
File: src/main/scala/akka/stream/impl/fusing/FutureFlow.scala:29
Taint Flags:

```
26 override protected def initialAttributes: Attributes =
27 DefaultAttributes.futureFlow and SourceLocation.forLambda(futureFlow)
28
29 override val shape: FlowShape[In, Out] = FlowShape(in, out)
30
31 override def createLogicAndMaterializedValue(inheritedAttributes: Attributes): (GraphStageLogic, Future[M]) = {
32 val propagateToNestedMaterialization =
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1055 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: Batch()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:1055
Taint Flags:

```
1052 val in = Inlet[In]("Batch.in")
1053 val out = Outlet[Out]("Batch.out")
1054
1055 override val shape: FlowShape[In, Out] = FlowShape.of(in, out)
1056
1057 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
1058 new GraphStageLogic(shape) with InHandler with OutHandler {
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1055 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: Batch()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1055 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/impl/fusing/Ops.scala:1055
Taint Flags:

```
1052  val in = Inlet[In]("Batch.in")
1053  val out = Outlet[Out]("Batch.out")
1054
1055  override val shape: FlowShape[In, Out] = FlowShape.of(in, out)
1056
1057  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
1058  new GraphStageLogic(shape) with InHandler with OutHandler {
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1187 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$fusing$Expand$$in
Enclosing Method: Expand()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:1187
Taint Flags:

```
1184
1185  override def initialAttributes = DefaultAttributes.expand and SourceLocation.forLambda(extrapolate)
1186
1187  override val shape = FlowShape(in, out)
1188
1189  override def createLogic(attr: Attributes) = new GraphStageLogic(shape) with InHandler with OutHandler {
1190  private var iterator: Iterator[Out] = Iterator.empty
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 783 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: GroupedWeighted()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:783
Taint Flags:

```
780
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 783 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
781  val in = Inlet[T]("GroupedWeighted.in")
782  val out = Outlet[immutable.Seq[T]]("GroupedWeighted.out")
783  override val shape: FlowShape[T, immutable.Seq[T]] = FlowShape(in, out)
784
785  override def initialAttributes: Attributes = DefaultAttributes.groupedWeighted
786
```

src/main/scala/akka/stream/impl/fusing/FutureFlow.scala, line 29 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: FutureFlow()
File: src/main/scala/akka/stream/impl/fusing/FutureFlow.scala:29
Taint Flags:

```
26  override protected def initialAttributes: Attributes =
27  DefaultAttributes.futureFlow and SourceLocation.forLambda(futureFlow)
28
29  override val shape: FlowShape[In, Out] = FlowShape(in, out)
30
31  override def createLogicAndMaterializedValue(inheritedAttributes: Attributes): (GraphStageLogic, Future[M]) = {
32  val propagateToNestedMaterialization =
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1282 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$fusing$MapAsync$$out
Enclosing Method: MapAsync()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:1282
Taint Flags:

```
1279
1280  override def initialAttributes = DefaultAttributes.mapAsync and SourceLocation.forLambda(f)
1281
1282  override val shape = FlowShape(in, out)
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1282 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
1283
1284  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
1285  new GraphStageLogic(shape) with InHandler with OutHandler {
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 468 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: ScanAsync()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:468
Taint Flags:

```
465
466  val in = Inlet[In]("ScanAsync.in")
467  val out = Outlet[Out]("ScanAsync.out")
468  override val shape: FlowShape[In, Out] = FlowShape[In, Out](in, out)
469
470  override val initialAttributes: Attributes = Attributes.name("scanAsync") and SourceLocation.forLambda(f)
471
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1282 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$impl$fusing$MapAsync$$in
Enclosing Method: MapAsync()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:1282
Taint Flags:

```
1279
1280  override def initialAttributes = DefaultAttributes.mapAsync and SourceLocation.forLambda(f)
1281
1282  override val shape = FlowShape(in, out)
1283
1284  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
1285  new GraphStageLogic(shape) with InHandler with OutHandler {
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 166 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: lastHandshakeStatus_=
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:166
Taint Flags:

```
163 catch { case NonFatal(ex) => fail(ex, closeTransport = true); throw ex }
164
165 engine.beginHandshake()
166 lastHandshakeStatus = engine.getHandshakeStatus
167
168 var currentSession = engine.getSession
169
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 229 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: engineInboundOpen
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:229
Taint Flags:

```
226
227 // half-closed
228 val outboundHalfClosed = engineNeedsWrap && outputBunch.demandAvailableFor(TransportOut)
229 val inboundHalfClosed = transportInChoppingBlock && engineInboundOpen
230
231 val bidirectional = TransferPhase(outbound || inbound) { () =>
232 if (tracing) log.debug("bidirectional")
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 246 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 246 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: engineInboundOpen
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:246
Taint Flags:

```
243 catch { case _: SSLException => nextPhase(completedPhase) }
244 }
245
246 val awaitingClose = TransferPhase(inputBunch.inputsAvailableFor(TransportIn) && engineInboundOpen) { () =>
247 if (tracing) log.debug("awaitingClose")
248 transportInChoppingBlock.chopInto(transportInBuffer)
249 try doUnwrap(ignoreOutput = true)
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 152 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: userInBuffer
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:152
Taint Flags:

```
149 private val userInBuffer = ByteBuffer.allocate(16665 + 2048)
150
151 private val userInChoppingBlock = new ChoppingBlock(UserIn, "UserIn")
152 userInChoppingBlock.prepare(userInBuffer)
153 private val transportInChoppingBlock = new ChoppingBlock(TransportIn, "TransportIn")
154 transportInChoppingBlock.prepare(transportInBuffer)
155
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 161 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: liftedTree1
Enclosing Method: TLSActor()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 161 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/impl/io/TLSActor.scala:161
Taint Flags:

```
158
159 // The engine could also be instantiated in ActorMaterializerImpl but if creation fails
160 // during materialization it would be worse than failing later on.
161 val engine =
162 try createSSLEngine(context.system)
163 catch { case NonFatal(ex) => fail(ex, closeTransport = true); throw ex }
164
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 154 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: transportInBuffer
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:154
Taint Flags:

```
151 private val userInChoppingBlock = new ChoppingBlock(UserIn, "UserIn")
152 userInChoppingBlock.prepare(userInBuffer)
153 private val transportInChoppingBlock = new ChoppingBlock(TransportIn, "TransportIn")
154 transportInChoppingBlock.prepare(transportInBuffer)
155
156 var lastHandshakeStatus: HandshakeStatus = null
157 var corkUser = true
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 224 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: engineNeedsWrap
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:224
Taint Flags:

```
221 }
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 224 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
222
223 // bidirectional case
224 val outbound = (userHasData || engineNeedsWrap) && outputBunch.demandAvailableFor(TransportOut)
225 val inbound = (transportInChoppingBlock && outputBunch.demandAvailableFor(UserOut)) || userOutCancelled
226
227 // half-closed
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 228 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: engineNeedsWrap
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:228
Taint Flags:

```
225 val inbound = (transportInChoppingBlock && outputBunch.demandAvailableFor(UserOut)) || userOutCancelled
226
227 // half-closed
228 val outboundHalfClosed = engineNeedsWrap && outputBunch.demandAvailableFor(TransportOut)
229 val inboundHalfClosed = transportInChoppingBlock && engineInboundOpen
230
231 val bidirectional = TransferPhase(outbound || inbound) { () =>
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 231 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: outbound
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:231
Taint Flags:

```
228 val outboundHalfClosed = engineNeedsWrap && outputBunch.demandAvailableFor(TransportOut)
229 val inboundHalfClosed = transportInChoppingBlock && engineInboundOpen
230
231 val bidirectional = TransferPhase(outbound || inbound) { () =>
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 231 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
232 if (tracing) log.debug("bidirectional")
233 val continue = doInbound(isOutboundClosed = false, inbound)
234 if (continue) {
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 263 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: outbound
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:263
Taint Flags:

```
260 }
261 }
262
263 val inboundClosed = TransferPhase(outbound || inboundHalfClosed) { () =>
264 if (tracing) log.debug("inboundClosed")
265 val continue = doInbound(isOutboundClosed = false, inboundHalfClosed)
266 if (continue) {
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 231 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: inbound
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:231
Taint Flags:

```
228 val outboundHalfClosed = engineNeedsWrap && outputBunch.demandAvailableFor(TransportOut)
229 val inboundHalfClosed = transportInChoppingBlock && engineInboundOpen
230
231 val bidirectional = TransferPhase(outbound || inbound) { () =>
232 if (tracing) log.debug("bidirectional")
233 val continue = doInbound(isOutboundClosed = false, inbound)
234 if (continue) {
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 253 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: inbound
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:253
Taint Flags:

```
250 catch { case _: SSLException => nextPhase(completedPhase) }
251 }
252
253 val outboundClosed = TransferPhase(outboundHalfClosed || inbound) { () =>
254 if (tracing) log.debug("outboundClosed")
255 val continue = doInbound(isOutboundClosed = true, inbound)
256 if (continue && outboundHalfClosed.isReady) {
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 152 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$implioTLSActor$$userInChoppingBlock
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:152
Taint Flags:

```
149 private val userInBuffer = ByteBuffer.allocate(16665 + 2048)
150
151 private val userInChoppingBlock = new ChoppingBlock(UserIn, "UserIn")
152 userInChoppingBlock.prepare(userInBuffer)
153 private val transportInChoppingBlock = new ChoppingBlock(TransportIn, "TransportIn")
154 transportInChoppingBlock.prepare(transportInBuffer)
155
```

src/main/scala/akka/stream/impl/io/TcpStages.scala, line 516 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TcpStages.scala, line 516 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: bytesOut
Enclosing Method: IncomingConnectionStage()
File: src/main/scala/akka/stream/impl/io/TcpStages.scala:516
Taint Flags:

```
513 val bytesIn: Inlet[ByteString] = Inlet("IncomingTCP.in")
514 val bytesOut: Outlet[ByteString] = Outlet("IncomingTCP.out")
515 override def initialAttributes = Attributes.name("IncomingConnection")
516 val shape: FlowShape[ByteString, ByteString] = FlowShape(bytesIn, bytesOut)
517
518 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
519 throw new UnsupportedOperationException("Not used")
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 154 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: transportInChoppingBlock
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:154
Taint Flags:

```
151 private val userInChoppingBlock = new ChoppingBlock(UserIn, "UserIn")
152 userInChoppingBlock.prepare(userInBuffer)
153 private val transportInChoppingBlock = new ChoppingBlock(TransportIn, "TransportIn")
154 transportInChoppingBlock.prepare(transportInBuffer)
155
156 var lastHandshakeStatus: HandshakeStatus = null
157 var corkUser = true
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 225 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: transportInChoppingBlock
Enclosing Method: TLSActor()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 225 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/impl/io/TLSActor.scala:225
Taint Flags:

```
222
223 // bidirectional case
224 val outbound = (userHasData || engineNeedsWrap) && outputBunch.demandAvailableFor(TransportOut)
225 val inbound = (transportInChoppingBlock && outputBunch.demandAvailableFor(UserOut)) || userOutCancelled
226
227 // half-closed
228 val outboundHalfClosed = engineNeedsWrap && outputBunch.demandAvailableFor(TransportOut)
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 229 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: transportInChoppingBlock
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:229
Taint Flags:

```
226
227 // half-closed
228 val outboundHalfClosed = engineNeedsWrap && outputBunch.demandAvailableFor(TransportOut)
229 val inboundHalfClosed = transportInChoppingBlock && engineInboundOpen
230
231 val bidirectional = TransferPhase(outbound || inbound) { () =>
232 if (tracing) log.debug("bidirectional")
```

src/main/scala/akka/stream/impl/io/TcpStages.scala, line 554 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: bytesOut
Enclosing Method: OutgoingConnectionStage()
File: src/main/scala/akka/stream/impl/io/TcpStages.scala:554
Taint Flags:

```
551 val bytesIn: Inlet[ByteString] = Inlet("OutgoingTCP.in")
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TcpStages.scala, line 554 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
552 val bytesOut: Outlet[ByteString] = Outlet("OutgoingTCP.out")
553 override def initialAttributes = Attributes.name("OutgoingConnection")
554 val shape: FlowShape[ByteString, ByteString] = FlowShape(bytesIn, bytesOut)
555
556 override def createLogicAndMaterializedValue(
557 inheritedAttributes: Attributes): (GraphStageLogic, Future[OutgoingConnection]) =
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 240 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: outboundHalfClosed
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:240
Taint Flags:

```
237 }
238 }
239
240 val flushingOutbound = TransferPhase(outboundHalfClosed) { () =>
241 if (tracing) log.debug("flushingOutbound")
242 try doWrap()
243 catch { case _: SSLException => nextPhase(completedPhase) }
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 253 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: outboundHalfClosed
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:253
Taint Flags:

```
250 catch { case _: SSLException => nextPhase(completedPhase) }
251 }
252
253 val outboundClosed = TransferPhase(outboundHalfClosed || inbound) { () =>
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 253 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
254 if (tracing) log.debug("outboundClosed")
255 val continue = doInbound(isOutboundClosed = true, inbound)
256 if (continue && outboundHalfClosed.isReady) {
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 65 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: outputBunch
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:65
Taint Flags:

```
62 import TLSActor._
63
64 protected val outputBunch = new OutputBunch(outputCount = 2, self, this)
65 outputBunch.markAllOutputs()
66
67 protected val inputBunch = new InputBunch(inputCount = 2, maxInputBufferSize, this) {
68 override def onError(input: Int, e: Throwable): Unit = fail(e)
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 224 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: outputBunch
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:224
Taint Flags:

```
221 }
222
223 // bidirectional case
224 val outbound = (userHasData || engineNeedsWrap) && outputBunch.demandAvailableFor(TransportOut)
225 val inbound = (transportInChoppingBlock && outputBunch.demandAvailableFor(UserOut)) || userOutCancelled
226
227 // half-closed
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 225 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: outputBunch
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:225
Taint Flags:

```
222
223 // bidirectional case
224 val outbound = (userHasData || engineNeedsWrap) && outputBunch.demandAvailableFor(TransportOut)
225 val inbound = (transportInChoppingBlock && outputBunch.demandAvailableFor(UserOut)) || userOutCancelled
226
227 // half-closed
228 val outboundHalfClosed = engineNeedsWrap && outputBunch.demandAvailableFor(TransportOut)
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 228 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: outputBunch
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:228
Taint Flags:

```
225 val inbound = (transportInChoppingBlock && outputBunch.demandAvailableFor(UserOut)) || userOutCancelled
226
227 // half-closed
228 val outboundHalfClosed = engineNeedsWrap && outputBunch.demandAvailableFor(TransportOut)
229 val inboundHalfClosed = transportInChoppingBlock && engineInboundOpen
230
231 val bidirectional = TransferPhase(outbound || inbound) { () =>
```

src/main/scala/akka/stream/impl/io/OutputStreamSourceStage.scala, line 31 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/OutputStreamSourceStage.scala, line 31 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: out
Enclosing Method: OutputStreamSourceStage()
File: src/main/scala/akka/stream/impl/io/OutputStreamSourceStage.scala:31
Taint Flags:

```
28 extends GraphStageWithMaterializedValue[SourceShape[ByteString], OutputStream] {
29 val out = Outlet[ByteString]("OutputStreamSource.out")
30 override def initialAttributes = DefaultAttributes.outputStreamSource
31 override val shape: SourceShape[ByteString] = SourceShape.of(out)
32
33 override def createLogicAndMaterializedValue(inheritedAttributes: Attributes): (GraphStageLogic, OutputStream) = {
34 val maxBuffer = inheritedAttributes.get[InputBuffer](InputBuffer(16, 16)).max
```

src/main/scala/akka/stream/impl/io/InputStreamSinkStage.scala, line 48 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: InputStreamSinkStage()
File: src/main/scala/akka/stream/impl/io/InputStreamSinkStage.scala:48
Taint Flags:

```
45
46 val in = Inlet[ByteString]("InputStreamSink.in")
47 override def initialAttributes: Attributes = DefaultAttributes.inputStreamSink
48 override val shape: SinkShape[ByteString] = SinkShape.of(in)
49
50 override def createLogicAndMaterializedValue(inheritedAttributes: Attributes): (GraphStageLogic, InputStream) = {
51 val maxBuffer = inheritedAttributes.get[InputBuffer](InputBuffer(16, 16)).max
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 246 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: inputBunch
Enclosing Method: TLSActor()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 246 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/impl/io/TLSActor.scala:246
Taint Flags:

```
243 catch { case _: SSLException => nextPhase(completedPhase) }
244 }
245
246 val awaitingClose = TransferPhase(inputBunch.inputsAvailableFor(TransportIn) && engineInboundOpen) { () =>
247 if (tracing) log.debug("awaitingClose")
248 transportInChoppingBlock.chopInto(transportInBuffer)
249 try doUnwrap(ignoreOutput = true)
```

src/main/scala/akka/stream/impl/io/TcpStages.scala, line 554 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: bytesIn
Enclosing Method: OutgoingConnectionStage()
File: src/main/scala/akka/stream/impl/io/TcpStages.scala:554
Taint Flags:

```
551 val bytesIn: Inlet[ByteString] = Inlet("OutgoingTCP.in")
552 val bytesOut: Outlet[ByteString] = Outlet("OutgoingTCP.out")
553 override def initialAttributes = Attributes.name("OutgoingConnection")
554 val shape: FlowShape[ByteString, ByteString] = FlowShape(bytesIn, bytesOut)
555
556 override def createLogicAndMaterializedValue(
557 inheritedAttributes: Attributes): (GraphStageLogic, Future[OutgoingConnection]) =
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 165 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: engine
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:165
Taint Flags:

```
162 try createSSLEngine(context.system)
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 165 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
163  catch { case NonFatal(ex) => fail(ex, closeTransport = true); throw ex }
164
165  engine.beginHandshake()
166  lastHandshakeStatus = engine.getHandshakeStatus
167
168  var currentSession = engine.getSession
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 166 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: engine
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:166
Taint Flags:

```
163  catch { case NonFatal(ex) => fail(ex, closeTransport = true); throw ex }
164
165  engine.beginHandshake()
166  lastHandshakeStatus = engine.getHandshakeStatus
167
168  var currentSession = engine.getSession
169
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 168 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: engine
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:168
Taint Flags:

```
165  engine.beginHandshake()
166  lastHandshakeStatus = engine.getHandshakeStatus
167
168  var currentSession = engine.getSession
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 168 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
169
170 def setNewSessionParameters(params: NegotiateNewSession): Unit = {
171 if (tracing) log.debug(s"applying $params")
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 470 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: bidirectional
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:470
Taint Flags:

```
467 sender() ! StreamSnapshotImpl(self.path, Seq.empty, Seq.empty)
468 }
469
470 initialPhase(2, bidirectional)
471
472 protected def fail(e: Throwable, closeTransport: Boolean = true): Unit = {
473 if (tracing) log.debug("fail {} due to: {}", self, e.getMessage)
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 224 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: userHasData
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:224
Taint Flags:

```
221 }
222
223 // bidirectional case
224 val outbound = (userHasData || engineNeedsWrap) && outputBunch.demandAvailableFor(TransportOut)
225 val inbound = (transportInChoppingBlock && outputBunch.demandAvailableFor(UserOut)) || userOutCancelled
226
227 // half-closed
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 225 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: userOutCancelled
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:225
Taint Flags:

```
222
223 // bidirectional case
224 val outbound = (userHasData || engineNeedsWrap) && outputBunch.demandAvailableFor(TransportOut)
225 val inbound = (transportInChoppingBlock && outputBunch.demandAvailableFor(UserOut)) || userOutCancelled
226
227 // half-closed
228 val outboundHalfClosed = engineNeedsWrap && outputBunch.demandAvailableFor(TransportOut)
```

src/main/scala/akka/stream/impl/io/TcpStages.scala, line 48 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: ConnectionSourceStage()
File: src/main/scala/akka/stream/impl/io/TcpStages.scala:48
Taint Flags:

```
45
46 val out: Outlet[StreamTcp.IncomingConnection] = Outlet("IncomingConnections.out")
47 override def initialAttributes = Attributes.name("ConnectionSource")
48 val shape: SourceShape[StreamTcp.IncomingConnection] = SourceShape(out)
49
50 override def createLogicAndMaterializedValue(
51 inheritedAttributes: Attributes): (GraphStageLogic, Future[ServerBinding]) =
```

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 263 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 263 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: inboundHalfClosed
Enclosing Method: TLSActor()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:263
Taint Flags:

```
260 }
261 }
262
263 val inboundClosed = TransferPhase(outbound || inboundHalfClosed) { () =>
264 if (tracing) log.debug("inboundClosed")
265 val continue = doInbound(isOutboundClosed = false, inboundHalfClosed)
266 if (continue) {
```

src/main/scala/akka/stream/impl/io/IOSources.scala, line 48 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: FileSource()
File: src/main/scala/akka/stream/impl/io/IOSources.scala:48
Taint Flags:

```
45 require(chunkSize > 0, "chunkSize must be greater than 0")
46 val out = Outlet[ByteString]("FileSource.out")
47
48 override val shape = SourceShape(out)
49
50 override def createLogicAndMaterializedValue(inheritedAttributes: Attributes): (GraphStageLogic, Future[IOResult]) = {
51 val ioResultPromise = Promise[IOResult]()
```

src/main/scala/akka/stream/impl/io/TcpStages.scala, line 516 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: bytesIn
Enclosing Method: IncomingConnectionStage()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TcpStages.scala, line 516 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/impl/io/TcpStages.scala:516
Taint Flags:

```
513 val bytesIn: Inlet[ByteString] = Inlet("IncomingTCP.in")
514 val bytesOut: Outlet[ByteString] = Outlet("IncomingTCP.out")
515 override def initialAttributes = Attributes.name("IncomingConnection")
516 val shape: FlowShape[ByteString, ByteString] = FlowShape(bytesIn, bytesOut)
517
518 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
519 throw new UnsupportedOperationException("Not used")
```

Package: akka.stream.impl.streamref

src/main/scala/akka/stream/impl/streamref/SinkRefImpl.scala, line 46 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: initialRefName
Enclosing Method: SinkRefStageImpl()
File: src/main/scala/akka/stream/impl/streamref/SinkRefImpl.scala:46
Taint Flags:

```
43 extends GraphStageWithMaterializedValue[SinkShape[In], SourceRef[In]] {
44 import SinkRefStageImpl.ActorRefStage
45
46 val in: Inlet[In] = Inlet[In](s"${Logging.simpleName(getClass)}($initialRefName).in")
47 override def shape: SinkShape[In] = SinkShape.of(in)
48
49 private def initialRefName: String =
```

Package: akka.stream.javadsl

src/main/scala/akka/stream/javadsl/BidiFlow.scala, line 17 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: fromFlows
Enclosing Method: BidiFlow()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.javadsl

src/main/scala/akka/stream/javadsl/BidiFlow.scala, line 17 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/javadsl/BidiFlow.scala:17
Taint Flags:

```
14
15 object BidiFlow {
16
17  private[this] val _identity: BidiFlow[Object, Object, Object, Object, NotUsed] =
18  BidiFlow.fromFlows(Flow.of(classOf[Object]), Flow.of(classOf[Object]))
19
20  def identity[A, B]: BidiFlow[A, A, B, B, NotUsed] = _identity.asInstanceOf[BidiFlow[A, A, B, B, NotUsed]]
```

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2352 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2352
Taint Flags:

```
2349  override def initialAttributes = Attributes.name("ZipLatestWith16")
2350  override val shape: FanInShape16[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, O] = new
FanInShape16[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, O]("ZipLatestWith16")
2351  def out: Outlet[O] = shape.out
2352  val in0: Inlet[A1] = shape.in0
2353  val in1: Inlet[A2] = shape.in1
2354  val in2: Inlet[A3] = shape.in2
2355  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2353 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2353

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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2353 (Code Correctness: Constructor Invokes Overridable Function)	Low

Taint Flags:

```
2350  override val shape: FanInShape16[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, O] = new FanInShape16[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, O]("ZipLatestWith16")
2351  def out: Outlet[O] = shape.out
2352  val in0: Inlet[A1] = shape.in0
2353  val in1: Inlet[A2] = shape.in1
2354  val in2: Inlet[A3] = shape.in2
2355  val in3: Inlet[A4] = shape.in3
2356  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2354 (Code Correctness: Constructor Invokes Overridable Function)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2354
Taint Flags:

```
2351  def out: Outlet[O] = shape.out
2352  val in0: Inlet[A1] = shape.in0
2353  val in1: Inlet[A2] = shape.in1
2354  val in2: Inlet[A3] = shape.in2
2355  val in3: Inlet[A4] = shape.in3
2356  val in4: Inlet[A5] = shape.in4
2357  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2355 (Code Correctness: Constructor Invokes Overridable Function)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2355
Taint Flags:

```
2352  val in0: Inlet[A1] = shape.in0
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2355 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
2353  val in1: Inlet[A2] = shape.in1
2354  val in2: Inlet[A3] = shape.in2
2355  val in3: Inlet[A4] = shape.in3
2356  val in4: Inlet[A5] = shape.in4
2357  val in5: Inlet[A6] = shape.in5
2358  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2356 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2356
Taint Flags:

```
2353  val in1: Inlet[A2] = shape.in1
2354  val in2: Inlet[A3] = shape.in2
2355  val in3: Inlet[A4] = shape.in3
2356  val in4: Inlet[A5] = shape.in4
2357  val in5: Inlet[A6] = shape.in5
2358  val in6: Inlet[A7] = shape.in6
2359  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2357 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2357
Taint Flags:

```
2354  val in2: Inlet[A3] = shape.in2
2355  val in3: Inlet[A4] = shape.in3
2356  val in4: Inlet[A5] = shape.in4
2357  val in5: Inlet[A6] = shape.in5
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2357 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
2358  val in6: Inlet[A7] = shape.in6
2359  val in7: Inlet[A8] = shape.in7
2360  val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2358 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2358
Taint Flags:

```
2355  val in3: Inlet[A4] = shape.in3
2356  val in4: Inlet[A5] = shape.in4
2357  val in5: Inlet[A6] = shape.in5
2358  val in6: Inlet[A7] = shape.in6
2359  val in7: Inlet[A8] = shape.in7
2360  val in8: Inlet[A9] = shape.in8
2361  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2359 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2359
Taint Flags:

```
2356  val in4: Inlet[A5] = shape.in4
2357  val in5: Inlet[A6] = shape.in5
2358  val in6: Inlet[A7] = shape.in6
2359  val in7: Inlet[A8] = shape.in7
2360  val in8: Inlet[A9] = shape.in8
2361  val in9: Inlet[A10] = shape.in9
2362  val in10: Inlet[A11] = shape.in10
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2360 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2360
Taint Flags:

```
2357 val in5: Inlet[A6] = shape.in5
2358 val in6: Inlet[A7] = shape.in6
2359 val in7: Inlet[A8] = shape.in7
2360 val in8: Inlet[A9] = shape.in8
2361 val in9: Inlet[A10] = shape.in9
2362 val in10: Inlet[A11] = shape.in10
2363 val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2361 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2361
Taint Flags:

```
2358 val in6: Inlet[A7] = shape.in6
2359 val in7: Inlet[A8] = shape.in7
2360 val in8: Inlet[A9] = shape.in8
2361 val in9: Inlet[A10] = shape.in9
2362 val in10: Inlet[A11] = shape.in10
2363 val in11: Inlet[A12] = shape.in11
2364 val in12: Inlet[A13] = shape.in12
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2362 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2362 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2362
Taint Flags:

```
2359 val in7: Inlet[A8] = shape.in7
2360 val in8: Inlet[A9] = shape.in8
2361 val in9: Inlet[A10] = shape.in9
2362 val in10: Inlet[A11] = shape.in10
2363 val in11: Inlet[A12] = shape.in11
2364 val in12: Inlet[A13] = shape.in12
2365 val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2363 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2363
Taint Flags:

```
2360 val in8: Inlet[A9] = shape.in8
2361 val in9: Inlet[A10] = shape.in9
2362 val in10: Inlet[A11] = shape.in10
2363 val in11: Inlet[A12] = shape.in11
2364 val in12: Inlet[A13] = shape.in12
2365 val in13: Inlet[A14] = shape.in13
2366 val in14: Inlet[A15] = shape.in14
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2364 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith16()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2364 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2364
Taint Flags:

```
2361  val in9: Inlet[A10] = shape.in9
2362  val in10: Inlet[A11] = shape.in10
2363  val in11: Inlet[A12] = shape.in11
2364  val in12: Inlet[A13] = shape.in12
2365  val in13: Inlet[A14] = shape.in13
2366  val in14: Inlet[A15] = shape.in14
2367  val in15: Inlet[A16] = shape.in15
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2365 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2365
Taint Flags:

```
2362  val in10: Inlet[A11] = shape.in10
2363  val in11: Inlet[A12] = shape.in11
2364  val in12: Inlet[A13] = shape.in12
2365  val in13: Inlet[A14] = shape.in13
2366  val in14: Inlet[A15] = shape.in14
2367  val in15: Inlet[A16] = shape.in15
2368
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2366 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2366
Taint Flags:

```
2363  val in11: Inlet[A12] = shape.in11
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2366 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
2364  val in12: Inlet[A13] = shape.in12
2365  val in13: Inlet[A14] = shape.in13
2366  val in14: Inlet[A15] = shape.in14
2367  val in15: Inlet[A16] = shape.in15
2368
2369  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2367 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2367
Taint Flags:

```
2364  val in12: Inlet[A13] = shape.in12
2365  val in13: Inlet[A14] = shape.in13
2366  val in14: Inlet[A15] = shape.in14
2367  val in15: Inlet[A16] = shape.in15
2368
2369  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16) => O) = this(zipper, eagerComplete = true)
2370
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 463 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: Interleave()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:463
Taint Flags:

```
460
461  val in: immutable.IndexedSeq[Inlet[T]] = Vector.tabulate(inputPorts)(i => Inlet[T]("Interleave.in" + i))
462  val out: Outlet[T] = Outlet[T]("Interleave.out")
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 463 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
463  override val shape: UniformFanInShape[T, T] = UniformFanInShape(out, in: _*)
464
465  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
466  new GraphStageLogic(shape) with OutHandler {
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 1488 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$scaladsl$MergeSequence$$out
Enclosing Method: MergeSequence()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:1488
Taint Flags:

```
1485  require(inputPorts > 1, "A MergeSequence must have more than 1 input ports")
1486  private val in: IndexedSeq[Inlet[T]] = Vector.tabulate(inputPorts)(i => Inlet[T]("MergeSequence.in" + i))
1487  private val out: Outlet[T] = Outlet("MergeSequence.out")
1488  override val shape: UniformFanInShape[T, T] = UniformFanInShape(out, in: _*)
1489
1490  import MergeSequence._
1491
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1204 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith9()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1204
Taint Flags:

```
1201  override def initialAttributes = Attributes.name("ZipLatestWith9")
1202  override val shape: FanInShape9[A1, A2, A3, A4, A5, A6, A7, A8, A9, O] = new FanInShape9[A1, A2, A3, A4, A5, A6, A7, A8, A9, O]("ZipLatestWith9")
1203  def out: Outlet[O] = shape.out
1204  val in0: Inlet[A1] = shape.in0
1205  val in1: Inlet[A2] = shape.in1
1206  val in2: Inlet[A3] = shape.in2
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1204 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
1207  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1205 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith9()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1205
Taint Flags:

```
1202  override val shape: FanInShape9[A1, A2, A3, A4, A5, A6, A7, A8, A9, O] = new FanInShape9[A1, A2, A3, A4, A5, A6, A7, A8, A9, O]("ZipLatestWith9")
1203  def out: Outlet[O] = shape.out
1204  val in0: Inlet[A1] = shape.in0
1205  val in1: Inlet[A2] = shape.in1
1206  val in2: Inlet[A3] = shape.in2
1207  val in3: Inlet[A4] = shape.in3
1208  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1206 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith9()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1206
Taint Flags:

```
1203  def out: Outlet[O] = shape.out
1204  val in0: Inlet[A1] = shape.in0
1205  val in1: Inlet[A2] = shape.in1
1206  val in2: Inlet[A3] = shape.in2
1207  val in3: Inlet[A4] = shape.in3
1208  val in4: Inlet[A5] = shape.in4
1209  val in5: Inlet[A6] = shape.in5
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1207 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith9()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1207
Taint Flags:

```
1204 val in0: Inlet[A1] = shape.in0
1205 val in1: Inlet[A2] = shape.in1
1206 val in2: Inlet[A3] = shape.in2
1207 val in3: Inlet[A4] = shape.in3
1208 val in4: Inlet[A5] = shape.in4
1209 val in5: Inlet[A6] = shape.in5
1210 val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1208 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith9()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1208
Taint Flags:

```
1205 val in1: Inlet[A2] = shape.in1
1206 val in2: Inlet[A3] = shape.in2
1207 val in3: Inlet[A4] = shape.in3
1208 val in4: Inlet[A5] = shape.in4
1209 val in5: Inlet[A6] = shape.in5
1210 val in6: Inlet[A7] = shape.in6
1211 val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1209 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1209 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith9()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1209
Taint Flags:

```
1206  val in2: Inlet[A3] = shape.in2
1207  val in3: Inlet[A4] = shape.in3
1208  val in4: Inlet[A5] = shape.in4
1209  val in5: Inlet[A6] = shape.in5
1210  val in6: Inlet[A7] = shape.in6
1211  val in7: Inlet[A8] = shape.in7
1212  val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1210 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith9()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1210
Taint Flags:

```
1207  val in3: Inlet[A4] = shape.in3
1208  val in4: Inlet[A5] = shape.in4
1209  val in5: Inlet[A6] = shape.in5
1210  val in6: Inlet[A7] = shape.in6
1211  val in7: Inlet[A8] = shape.in7
1212  val in8: Inlet[A9] = shape.in8
1213
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1211 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith9()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1211 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1211
Taint Flags:

```
1208  val in4: Inlet[A5] = shape.in4
1209  val in5: Inlet[A6] = shape.in5
1210  val in6: Inlet[A7] = shape.in6
1211  val in7: Inlet[A8] = shape.in7
1212  val in8: Inlet[A9] = shape.in8
1213
1214  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1212 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith9()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1212
Taint Flags:

```
1209  val in5: Inlet[A6] = shape.in5
1210  val in6: Inlet[A7] = shape.in6
1211  val in7: Inlet[A8] = shape.in7
1212  val in8: Inlet[A9] = shape.in8
1213
1214  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9) => O) = this(zipper, eagerComplete = true)
1215
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 1318 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: Concat()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:1318
Taint Flags:

```
1315  val in: immutable.IndexedSeq[Inlet[T]] = Vector.tabulate(inputPorts)(i => Inlet[T]("Concat.in" + i))
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 1318 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
1316  val out: Outlet[T] = Outlet[T]("Concat.out")
1317  override def initialAttributes = DefaultAttributes.concat
1318  override val shape: UniformFanInShape[T, T] = UniformFanInShape(out, in: _*)
1319
1320  override def createLogic(inheritedAttributes: Attributes) = new GraphStageLogic(shape) with OutHandler {
1321  var activeStream: Int = 0
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 1391 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: primary
Enclosing Method: OrElse()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:1391
Taint Flags:

```
1388  val secondary = Inlet[T]("OrElse.secondary")
1389  val out = Outlet[T]("OrElse.out")
1390
1391  override val shape: UniformFanInShape[T, T] = UniformFanInShape(out, primary, secondary)
1392
1393  override protected def initialAttributes: Attributes = DefaultAttributes.orElse
1394
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1347 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1347
Taint Flags:

```
1344  override def initialAttributes = Attributes.name("ZipLatestWith10")
1345  override val shape: FanInShape10[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, O] = new FanInShape10[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, O]("ZipLatestWith10")
1346  def out: Outlet[O] = shape.out
1347  val in0: Inlet[A1] = shape.in0
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1347 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
1348  val in1: Inlet[A2] = shape.in1
1349  val in2: Inlet[A3] = shape.in2
1350  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1348 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1348
Taint Flags:

```
1345  override val shape: FanInShape10[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, O] = new FanInShape10[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, O]("ZipLatestWith10")
1346  def out: Outlet[O] = shape.out
1347  val in0: Inlet[A1] = shape.in0
1348  val in1: Inlet[A2] = shape.in1
1349  val in2: Inlet[A3] = shape.in2
1350  val in3: Inlet[A4] = shape.in3
1351  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1349 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1349
Taint Flags:

```
1346  def out: Outlet[O] = shape.out
1347  val in0: Inlet[A1] = shape.in0
1348  val in1: Inlet[A2] = shape.in1
1349  val in2: Inlet[A3] = shape.in2
1350  val in3: Inlet[A4] = shape.in3
1351  val in4: Inlet[A5] = shape.in4
1352  val in5: Inlet[A6] = shape.in5
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1349 (Code Correctness: Constructor Invokes Overridable Function) **Low**

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1350 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1350
Taint Flags:

```
1347  val in0: Inlet[A1] = shape.in0
1348  val in1: Inlet[A2] = shape.in1
1349  val in2: Inlet[A3] = shape.in2
1350  val in3: Inlet[A4] = shape.in3
1351  val in4: Inlet[A5] = shape.in4
1352  val in5: Inlet[A6] = shape.in5
1353  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1351 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1351
Taint Flags:

```
1348  val in1: Inlet[A2] = shape.in1
1349  val in2: Inlet[A3] = shape.in2
1350  val in3: Inlet[A4] = shape.in3
1351  val in4: Inlet[A5] = shape.in4
1352  val in5: Inlet[A6] = shape.in5
1353  val in6: Inlet[A7] = shape.in6
1354  val in7: Inlet[A8] = shape.in7
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1352 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1352
Taint Flags:

```
1349 val in2: Inlet[A3] = shape.in2
1350 val in3: Inlet[A4] = shape.in3
1351 val in4: Inlet[A5] = shape.in4
1352 val in5: Inlet[A6] = shape.in5
1353 val in6: Inlet[A7] = shape.in6
1354 val in7: Inlet[A8] = shape.in7
1355 val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1353 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1353
Taint Flags:

```
1350 val in3: Inlet[A4] = shape.in3
1351 val in4: Inlet[A5] = shape.in4
1352 val in5: Inlet[A6] = shape.in5
1353 val in6: Inlet[A7] = shape.in6
1354 val in7: Inlet[A8] = shape.in7
1355 val in8: Inlet[A9] = shape.in8
1356 val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1354 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1354 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1354
Taint Flags:

```
1351  val in4: Inlet[A5] = shape.in4
1352  val in5: Inlet[A6] = shape.in5
1353  val in6: Inlet[A7] = shape.in6
1354  val in7: Inlet[A8] = shape.in7
1355  val in8: Inlet[A9] = shape.in8
1356  val in9: Inlet[A10] = shape.in9
1357
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1355 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1355
Taint Flags:

```
1352  val in5: Inlet[A6] = shape.in5
1353  val in6: Inlet[A7] = shape.in6
1354  val in7: Inlet[A8] = shape.in7
1355  val in8: Inlet[A9] = shape.in8
1356  val in9: Inlet[A10] = shape.in9
1357
1358  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1356 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith10()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1356 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1356
Taint Flags:

```
1353  val in6: Inlet[A7] = shape.in6
1354  val in7: Inlet[A8] = shape.in7
1355  val in8: Inlet[A9] = shape.in8
1356  val in9: Inlet[A10] = shape.in9
1357
1358  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10) => O) = this(zipper, eagerComplete = true)
1359
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 707 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: outTap
Enclosing Method: WireTap()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:707
Taint Flags:

```
704  val outMain: Outlet[T] = Outlet[T]("WireTap.outMain")
705  val outTap: Outlet[T] = Outlet[T]("WireTap.outTap")
706  override def initialAttributes = DefaultAttributes.wireTap
707  override val shape: FanOutShape2[T, T, T] = new FanOutShape2(in, outMain, outTap)
708
709  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
710  private var pendingTap: Option[T] = None
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 542 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$scaladsl$MergeSorted$$right
Enclosing Method: MergeSorted()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:542
Taint Flags:

```
539  private val right = Inlet[T]("right")
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 542 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
540  private val out = Outlet[T]("out")
541
542  override val shape = new FanInShape2(left, right, out)
543
544  override def createLogic(attr: Attributes) = new GraphStageLogic(shape) {
545  import Ordering.Implicits._
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1654 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1654
Taint Flags:

```
1651  override def initialAttributes = Attributes.name("ZipLatestWith12")
1652  override val shape: FanInShape12[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, O] = new FanInShape12[A1, A2, A3, A4,
A5, A6, A7, A8, A9, A10, A11, A12, O]("ZipLatestWith12")
1653  def out: Outlet[O] = shape.out
1654  val in0: Inlet[A1] = shape.in0
1655  val in1: Inlet[A2] = shape.in1
1656  val in2: Inlet[A3] = shape.in2
1657  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1655 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1655
Taint Flags:

```
1652  override val shape: FanInShape12[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, O] = new FanInShape12[A1, A2, A3, A4,
A5, A6, A7, A8, A9, A10, A11, A12, O]("ZipLatestWith12")
1653  def out: Outlet[O] = shape.out
1654  val in0: Inlet[A1] = shape.in0
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1655 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
1655  val in1: Inlet[A2] = shape.in1
1656  val in2: Inlet[A3] = shape.in2
1657  val in3: Inlet[A4] = shape.in3
1658  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1656 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1656
Taint Flags:

```
1653  def out: Outlet[O] = shape.out
1654  val in0: Inlet[A1] = shape.in0
1655  val in1: Inlet[A2] = shape.in1
1656  val in2: Inlet[A3] = shape.in2
1657  val in3: Inlet[A4] = shape.in3
1658  val in4: Inlet[A5] = shape.in4
1659  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1657 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1657
Taint Flags:

```
1654  val in0: Inlet[A1] = shape.in0
1655  val in1: Inlet[A2] = shape.in1
1656  val in2: Inlet[A3] = shape.in2
1657  val in3: Inlet[A4] = shape.in3
1658  val in4: Inlet[A5] = shape.in4
1659  val in5: Inlet[A6] = shape.in5
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1657 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
1660  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1658 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1658
Taint Flags:

```
1655  val in1: Inlet[A2] = shape.in1
1656  val in2: Inlet[A3] = shape.in2
1657  val in3: Inlet[A4] = shape.in3
1658  val in4: Inlet[A5] = shape.in4
1659  val in5: Inlet[A6] = shape.in5
1660  val in6: Inlet[A7] = shape.in6
1661  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1659 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1659
Taint Flags:

```
1656  val in2: Inlet[A3] = shape.in2
1657  val in3: Inlet[A4] = shape.in3
1658  val in4: Inlet[A5] = shape.in4
1659  val in5: Inlet[A6] = shape.in5
1660  val in6: Inlet[A7] = shape.in6
1661  val in7: Inlet[A8] = shape.in7
1662  val in8: Inlet[A9] = shape.in8
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1660 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1660
Taint Flags:

```
1657  val in3: Inlet[A4] = shape.in3
1658  val in4: Inlet[A5] = shape.in4
1659  val in5: Inlet[A6] = shape.in5
1660  val in6: Inlet[A7] = shape.in6
1661  val in7: Inlet[A8] = shape.in7
1662  val in8: Inlet[A9] = shape.in8
1663  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1661 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1661
Taint Flags:

```
1658  val in4: Inlet[A5] = shape.in4
1659  val in5: Inlet[A6] = shape.in5
1660  val in6: Inlet[A7] = shape.in6
1661  val in7: Inlet[A8] = shape.in7
1662  val in8: Inlet[A9] = shape.in8
1663  val in9: Inlet[A10] = shape.in9
1664  val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1662 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1662 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1662
Taint Flags:

```
1659 val in5: Inlet[A6] = shape.in5
1660 val in6: Inlet[A7] = shape.in6
1661 val in7: Inlet[A8] = shape.in7
1662 val in8: Inlet[A9] = shape.in8
1663 val in9: Inlet[A10] = shape.in9
1664 val in10: Inlet[A11] = shape.in10
1665 val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1663 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1663
Taint Flags:

```
1660 val in6: Inlet[A7] = shape.in6
1661 val in7: Inlet[A8] = shape.in7
1662 val in8: Inlet[A9] = shape.in8
1663 val in9: Inlet[A10] = shape.in9
1664 val in10: Inlet[A11] = shape.in10
1665 val in11: Inlet[A12] = shape.in11
1666
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1664 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith12()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1664 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1664
Taint Flags:

```
1661  val in7: Inlet[A8] = shape.in7
1662  val in8: Inlet[A9] = shape.in8
1663  val in9: Inlet[A10] = shape.in9
1664  val in10: Inlet[A11] = shape.in10
1665  val in11: Inlet[A12] = shape.in11
1666
1667  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1665 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1665
Taint Flags:

```
1662  val in8: Inlet[A9] = shape.in8
1663  val in9: Inlet[A10] = shape.in9
1664  val in10: Inlet[A11] = shape.in10
1665  val in11: Inlet[A12] = shape.in11
1666
1667  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12) => O) = this(zipper, eagerComplete = true)
1668
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 338 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: MergePrioritized()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:338
Taint Flags:

```
335  val in: immutable.IndexedSeq[Inlet[T]] = Vector.tabulate(priorities.size)(i => Inlet[T]("MergePrioritized.in" + i))
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 338 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
336  val out: Outlet[T] = Outlet[T]("MergePrioritized.out")
337  override def initialAttributes: Attributes = DefaultAttributes.mergePrioritized
338  override val shape: UniformFanInShape[T, T] = UniformFanInShape(out, in: _*)
339
340  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
341  new GraphStageLogic(shape) with OutHandler {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2949 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2949
Taint Flags:

```
2946  override def initialAttributes = Attributes.name("ZipLatestWith19")
2947  override val shape: FanInShape19[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, O] =
new FanInShape19[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, O]("ZipLatestWith19")
2948  def out: Outlet[O] = shape.out
2949  val in0: Inlet[A1] = shape.in0
2950  val in1: Inlet[A2] = shape.in1
2951  val in2: Inlet[A3] = shape.in2
2952  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2950 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2950
Taint Flags:

```
2947  override val shape: FanInShape19[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, O] =
new FanInShape19[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, O]("ZipLatestWith19")
2948  def out: Outlet[O] = shape.out
2949  val in0: Inlet[A1] = shape.in0
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2950 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
2950  val in1: Inlet[A2] = shape.in1
2951  val in2: Inlet[A3] = shape.in2
2952  val in3: Inlet[A4] = shape.in3
2953  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2951 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2951
Taint Flags:

```
2948  def out: Outlet[O] = shape.out
2949  val in0: Inlet[A1] = shape.in0
2950  val in1: Inlet[A2] = shape.in1
2951  val in2: Inlet[A3] = shape.in2
2952  val in3: Inlet[A4] = shape.in3
2953  val in4: Inlet[A5] = shape.in4
2954  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2952 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2952
Taint Flags:

```
2949  val in0: Inlet[A1] = shape.in0
2950  val in1: Inlet[A2] = shape.in1
2951  val in2: Inlet[A3] = shape.in2
2952  val in3: Inlet[A4] = shape.in3
2953  val in4: Inlet[A5] = shape.in4
2954  val in5: Inlet[A6] = shape.in5
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2952 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
2955  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2953 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2953
Taint Flags:

```
2950  val in1: Inlet[A2] = shape.in1
2951  val in2: Inlet[A3] = shape.in2
2952  val in3: Inlet[A4] = shape.in3
2953  val in4: Inlet[A5] = shape.in4
2954  val in5: Inlet[A6] = shape.in5
2955  val in6: Inlet[A7] = shape.in6
2956  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2954 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2954
Taint Flags:

```
2951  val in2: Inlet[A3] = shape.in2
2952  val in3: Inlet[A4] = shape.in3
2953  val in4: Inlet[A5] = shape.in4
2954  val in5: Inlet[A6] = shape.in5
2955  val in6: Inlet[A7] = shape.in6
2956  val in7: Inlet[A8] = shape.in7
2957  val in8: Inlet[A9] = shape.in8
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2955 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2955
Taint Flags:

```
2952  val in3: Inlet[A4] = shape.in3
2953  val in4: Inlet[A5] = shape.in4
2954  val in5: Inlet[A6] = shape.in5
2955  val in6: Inlet[A7] = shape.in6
2956  val in7: Inlet[A8] = shape.in7
2957  val in8: Inlet[A9] = shape.in8
2958  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2956 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2956
Taint Flags:

```
2953  val in4: Inlet[A5] = shape.in4
2954  val in5: Inlet[A6] = shape.in5
2955  val in6: Inlet[A7] = shape.in6
2956  val in7: Inlet[A8] = shape.in7
2957  val in8: Inlet[A9] = shape.in8
2958  val in9: Inlet[A10] = shape.in9
2959  val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2957 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2957 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2957
Taint Flags:

```
2954 val in5: Inlet[A6] = shape.in5
2955 val in6: Inlet[A7] = shape.in6
2956 val in7: Inlet[A8] = shape.in7
2957 val in8: Inlet[A9] = shape.in8
2958 val in9: Inlet[A10] = shape.in9
2959 val in10: Inlet[A11] = shape.in10
2960 val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2958 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2958
Taint Flags:

```
2955 val in6: Inlet[A7] = shape.in6
2956 val in7: Inlet[A8] = shape.in7
2957 val in8: Inlet[A9] = shape.in8
2958 val in9: Inlet[A10] = shape.in9
2959 val in10: Inlet[A11] = shape.in10
2960 val in11: Inlet[A12] = shape.in11
2961 val in12: Inlet[A13] = shape.in12
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2959 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2959 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2959
Taint Flags:

```
2956  val in7: Inlet[A8] = shape.in7
2957  val in8: Inlet[A9] = shape.in8
2958  val in9: Inlet[A10] = shape.in9
2959  val in10: Inlet[A11] = shape.in10
2960  val in11: Inlet[A12] = shape.in11
2961  val in12: Inlet[A13] = shape.in12
2962  val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2960 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2960
Taint Flags:

```
2957  val in8: Inlet[A9] = shape.in8
2958  val in9: Inlet[A10] = shape.in9
2959  val in10: Inlet[A11] = shape.in10
2960  val in11: Inlet[A12] = shape.in11
2961  val in12: Inlet[A13] = shape.in12
2962  val in13: Inlet[A14] = shape.in13
2963  val in14: Inlet[A15] = shape.in14
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2961 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2961
Taint Flags:

```
2958  val in9: Inlet[A10] = shape.in9
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2961 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
2959  val in10: Inlet[A11] = shape.in10
2960  val in11: Inlet[A12] = shape.in11
2961  val in12: Inlet[A13] = shape.in12
2962  val in13: Inlet[A14] = shape.in13
2963  val in14: Inlet[A15] = shape.in14
2964  val in15: Inlet[A16] = shape.in15
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2962 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2962
Taint Flags:

```
2959  val in10: Inlet[A11] = shape.in10
2960  val in11: Inlet[A12] = shape.in11
2961  val in12: Inlet[A13] = shape.in12
2962  val in13: Inlet[A14] = shape.in13
2963  val in14: Inlet[A15] = shape.in14
2964  val in15: Inlet[A16] = shape.in15
2965  val in16: Inlet[A17] = shape.in16
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2963 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2963
Taint Flags:

```
2960  val in11: Inlet[A12] = shape.in11
2961  val in12: Inlet[A13] = shape.in12
2962  val in13: Inlet[A14] = shape.in13
2963  val in14: Inlet[A15] = shape.in14
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2963 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
2964  val in15: Inlet[A16] = shape.in15
2965  val in16: Inlet[A17] = shape.in16
2966  val in17: Inlet[A18] = shape.in17
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2964 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2964
Taint Flags:

```
2961  val in12: Inlet[A13] = shape.in12
2962  val in13: Inlet[A14] = shape.in13
2963  val in14: Inlet[A15] = shape.in14
2964  val in15: Inlet[A16] = shape.in15
2965  val in16: Inlet[A17] = shape.in16
2966  val in17: Inlet[A18] = shape.in17
2967  val in18: Inlet[A19] = shape.in18
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2965 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2965
Taint Flags:

```
2962  val in13: Inlet[A14] = shape.in13
2963  val in14: Inlet[A15] = shape.in14
2964  val in15: Inlet[A16] = shape.in15
2965  val in16: Inlet[A17] = shape.in16
2966  val in17: Inlet[A18] = shape.in17
2967  val in18: Inlet[A19] = shape.in18
2968
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2966 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2966
Taint Flags:

```
2963  val in14: Inlet[A15] = shape.in14
2964  val in15: Inlet[A16] = shape.in15
2965  val in16: Inlet[A17] = shape.in16
2966  val in17: Inlet[A18] = shape.in17
2967  val in18: Inlet[A19] = shape.in18
2968
2969  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2967 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2967
Taint Flags:

```
2964  val in15: Inlet[A16] = shape.in15
2965  val in16: Inlet[A17] = shape.in16
2966  val in17: Inlet[A18] = shape.in17
2967  val in18: Inlet[A19] = shape.in18
2968
2969  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19) => O) = this(zipper, eagerComplete = true)
2970
```

src/main/scala/akka/stream/scaladsl/Hub.scala, line 133 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Hub.scala, line 133 (Code Correctness: Constructor Invokes Overridable Function) — Low

Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: MergeHub()
File: src/main/scala/akka/stream/scaladsl/Hub.scala:133
Taint Flags:

```
130 require(perProducerBufferSize > 0, "Buffer size must be positive")
131
132 val out: Outlet[T] = Outlet("MergeHub.out")
133 override val shape: SourceShape[T] = SourceShape(out)
134
135 // Half of buffer size, rounded up
136 private[this] val DemandThreshold = (perProducerBufferSize / 2) + (perProducerBufferSize % 2)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1068 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith8()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1068
Taint Flags:

```
1065 override def initialAttributes = Attributes.name("ZipLatestWith8")
1066 override val shape: FanInShape8[A1, A2, A3, A4, A5, A6, A7, A8, O] = new FanInShape8[A1, A2, A3, A4, A5, A6, A7, A8, O]
("ZipLatestWith8")
1067 def out: Outlet[O] = shape.out
1068 val in0: Inlet[A1] = shape.in0
1069 val in1: Inlet[A2] = shape.in1
1070 val in2: Inlet[A3] = shape.in2
1071 val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1069 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1069 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith8()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1069
Taint Flags:

```
1066  override val shape: FanInShape8[A1, A2, A3, A4, A5, A6, A7, A8, O] = new FanInShape8[A1, A2, A3, A4, A5, A6, A7, A8, O]
("ZipLatestWith8")
1067  def out: Outlet[O] = shape.out
1068  val in0: Inlet[A1] = shape.in0
1069  val in1: Inlet[A2] = shape.in1
1070  val in2: Inlet[A3] = shape.in2
1071  val in3: Inlet[A4] = shape.in3
1072  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1070 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith8()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1070
Taint Flags:

```
1067  def out: Outlet[O] = shape.out
1068  val in0: Inlet[A1] = shape.in0
1069  val in1: Inlet[A2] = shape.in1
1070  val in2: Inlet[A3] = shape.in2
1071  val in3: Inlet[A4] = shape.in3
1072  val in4: Inlet[A5] = shape.in4
1073  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1071 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1071 (Code Correctness: Constructor Invokes Overridable Function) — Low

Enclosing Method: ZipLatestWith8()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1071
Taint Flags:

```
1068  val in0: Inlet[A1] = shape.in0
1069  val in1: Inlet[A2] = shape.in1
1070  val in2: Inlet[A3] = shape.in2
1071  val in3: Inlet[A4] = shape.in3
1072  val in4: Inlet[A5] = shape.in4
1073  val in5: Inlet[A6] = shape.in5
1074  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1072 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith8()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1072
Taint Flags:

```
1069  val in1: Inlet[A2] = shape.in1
1070  val in2: Inlet[A3] = shape.in2
1071  val in3: Inlet[A4] = shape.in3
1072  val in4: Inlet[A5] = shape.in4
1073  val in5: Inlet[A6] = shape.in5
1074  val in6: Inlet[A7] = shape.in6
1075  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1073 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith8()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1073
Taint Flags:

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1073 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
1070  val in2: Inlet[A3] = shape.in2
1071  val in3: Inlet[A4] = shape.in3
1072  val in4: Inlet[A5] = shape.in4
1073  val in5: Inlet[A6] = shape.in5
1074  val in6: Inlet[A7] = shape.in6
1075  val in7: Inlet[A8] = shape.in7
1076
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1074 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith8()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1074
Taint Flags:

```
1071  val in3: Inlet[A4] = shape.in3
1072  val in4: Inlet[A5] = shape.in4
1073  val in5: Inlet[A6] = shape.in5
1074  val in6: Inlet[A7] = shape.in6
1075  val in7: Inlet[A8] = shape.in7
1076
1077  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1075 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith8()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1075
Taint Flags:

```
1072  val in4: Inlet[A5] = shape.in4
1073  val in5: Inlet[A6] = shape.in5
1074  val in6: Inlet[A7] = shape.in6
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1075 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
1075  val in7: Inlet[A8] = shape.in7
1076
1077  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8) => O) = this(zipper, eagerComplete = true)
1078
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 1488 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$scaladsl$MergeSequence$$in
Enclosing Method: MergeSequence()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:1488
Taint Flags:

```
1485  require(inputPorts > 1, "A MergeSequence must have more than 1 input ports")
1486  private val in: IndexedSeq[Inlet[T]] = Vector.tabulate(inputPorts)(i => Inlet[T]("MergeSequence.in" + i))
1487  private val out: Outlet[T] = Outlet("MergeSequence.out")
1488  override val shape: UniformFanInShape[T, T] = UniformFanInShape(out, in: _*)
1489
1490  import MergeSequence._
1491
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 542 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$scaladsl$MergeSorted$$left
Enclosing Method: MergeSorted()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:542
Taint Flags:

```
539  private val right = Inlet[T]("right")
540  private val out = Outlet[T]("out")
541
542  override val shape = new FanInShape2(left, right, out)
543
544  override def createLogic(attr: Attributes) = new GraphStageLogic(shape) {
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 542 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
545 import Ordering.Implicits._
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1057 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith9()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1057
Taint Flags:

```
1054 override def initialAttributes = Attributes.name("ZipWith9")
1055 override val shape: FanInShape9[A1, A2, A3, A4, A5, A6, A7, A8, A9, O] = new FanInShape9[A1, A2, A3, A4, A5, A6, A7, A8, A9, O]("ZipWith9")
1056 def out: Outlet[O] = shape.out
1057 val in0: Inlet[A1] = shape.in0
1058 val in1: Inlet[A2] = shape.in1
1059 val in2: Inlet[A3] = shape.in2
1060 val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1058 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith9()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1058
Taint Flags:

```
1055 override val shape: FanInShape9[A1, A2, A3, A4, A5, A6, A7, A8, A9, O] = new FanInShape9[A1, A2, A3, A4, A5, A6, A7, A8, A9, O]("ZipWith9")
1056 def out: Outlet[O] = shape.out
1057 val in0: Inlet[A1] = shape.in0
1058 val in1: Inlet[A2] = shape.in1
1059 val in2: Inlet[A3] = shape.in2
1060 val in3: Inlet[A4] = shape.in3
1061 val in4: Inlet[A5] = shape.in4
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1059 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith9()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1059
Taint Flags:

```
1056 def out: Outlet[O] = shape.out
1057 val in0: Inlet[A1] = shape.in0
1058 val in1: Inlet[A2] = shape.in1
1059 val in2: Inlet[A3] = shape.in2
1060 val in3: Inlet[A4] = shape.in3
1061 val in4: Inlet[A5] = shape.in4
1062 val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1060 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith9()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1060
Taint Flags:

```
1057 val in0: Inlet[A1] = shape.in0
1058 val in1: Inlet[A2] = shape.in1
1059 val in2: Inlet[A3] = shape.in2
1060 val in3: Inlet[A4] = shape.in3
1061 val in4: Inlet[A5] = shape.in4
1062 val in5: Inlet[A6] = shape.in5
1063 val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1061 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1061 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith9()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1061
Taint Flags:

```
1058  val in1: Inlet[A2] = shape.in1
1059  val in2: Inlet[A3] = shape.in2
1060  val in3: Inlet[A4] = shape.in3
1061  val in4: Inlet[A5] = shape.in4
1062  val in5: Inlet[A6] = shape.in5
1063  val in6: Inlet[A7] = shape.in6
1064  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1062 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith9()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1062
Taint Flags:

```
1059  val in2: Inlet[A3] = shape.in2
1060  val in3: Inlet[A4] = shape.in3
1061  val in4: Inlet[A5] = shape.in4
1062  val in5: Inlet[A6] = shape.in5
1063  val in6: Inlet[A7] = shape.in6
1064  val in7: Inlet[A8] = shape.in7
1065  val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1063 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith9()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1063 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1063
Taint Flags:

```
1060  val in3: Inlet[A4] = shape.in3
1061  val in4: Inlet[A5] = shape.in4
1062  val in5: Inlet[A6] = shape.in5
1063  val in6: Inlet[A7] = shape.in6
1064  val in7: Inlet[A8] = shape.in7
1065  val in8: Inlet[A9] = shape.in8
1066
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1064 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith9()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1064
Taint Flags:

```
1061  val in4: Inlet[A5] = shape.in4
1062  val in5: Inlet[A6] = shape.in5
1063  val in6: Inlet[A7] = shape.in6
1064  val in7: Inlet[A8] = shape.in7
1065  val in8: Inlet[A9] = shape.in8
1066
1067  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1065 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith9()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1065
Taint Flags:

```
1062  val in5: Inlet[A6] = shape.in5
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1065 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
1063  val in6: Inlet[A7] = shape.in6
1064  val in7: Inlet[A8] = shape.in7
1065  val in8: Inlet[A9] = shape.in8
1066
1067  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
1068  var pending = 0
```

src/main/scala/akka/stream/scaladsl/Sink.scala, line 308 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: fromGraph
Enclosing Method: Sink()
File: src/main/scala/akka/stream/scaladsl/Sink.scala:308
Taint Flags:

```
305  * A [[Sink]] that will always backpressure never cancel and never consume any elements from the stream.
306  * */
307  def never: Sink[Any, Future[Done]] = _never
308  private[this] val _never: Sink[Any, Future[Done]] = fromGraph(GraphStages.NeverSink)
309
310  /**
311  * A `Sink` that will invoke the given procedure for each received element. The sink is materialized
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 96 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: Merge()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:96
Taint Flags:

```
93  val in: immutable.IndexedSeq[Inlet[T]] = Vector.tabulate(inputPorts)(i => Inlet[T]("Merge.in" + i))
94  val out: Outlet[T] = Outlet[T]("Merge.out")
95  override def initialAttributes = DefaultAttributes.merge
96  override val shape: UniformFanInShape[T, T] = UniformFanInShape(out, in: _*)
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 96 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
97
98  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
99  new GraphStageLogic(shape) with OutHandler {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 471 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith5()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:471
Taint Flags:

```
468  override def initialAttributes = Attributes.name("ZipWith5")
469  override val shape: FanInShape5[A1, A2, A3, A4, A5, O] = new FanInShape5[A1, A2, A3, A4, A5, O]("ZipWith5")
470  def out: Outlet[O] = shape.out
471  val in0: Inlet[A1] = shape.in0
472  val in1: Inlet[A2] = shape.in1
473  val in2: Inlet[A3] = shape.in2
474  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 472 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith5()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:472
Taint Flags:

```
469  override val shape: FanInShape5[A1, A2, A3, A4, A5, O] = new FanInShape5[A1, A2, A3, A4, A5, O]("ZipWith5")
470  def out: Outlet[O] = shape.out
471  val in0: Inlet[A1] = shape.in0
472  val in1: Inlet[A2] = shape.in1
473  val in2: Inlet[A3] = shape.in2
474  val in3: Inlet[A4] = shape.in3
475  val in4: Inlet[A5] = shape.in4
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 473 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith5()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:473
Taint Flags:

```
470 def out: Outlet[O] = shape.out
471 val in0: Inlet[A1] = shape.in0
472 val in1: Inlet[A2] = shape.in1
473 val in2: Inlet[A3] = shape.in2
474 val in3: Inlet[A4] = shape.in3
475 val in4: Inlet[A5] = shape.in4
476
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 474 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith5()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:474
Taint Flags:

```
471 val in0: Inlet[A1] = shape.in0
472 val in1: Inlet[A2] = shape.in1
473 val in2: Inlet[A3] = shape.in2
474 val in3: Inlet[A4] = shape.in3
475 val in4: Inlet[A5] = shape.in4
476
477 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 475 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 475 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith5()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:475
Taint Flags:

```
472 val in1: Inlet[A2] = shape.in1
473 val in2: Inlet[A3] = shape.in2
474 val in3: Inlet[A4] = shape.in3
475 val in4: Inlet[A5] = shape.in4
476
477 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
478 var pending = 0
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4071 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4071
Taint Flags:

```
4068 override def initialAttributes = Attributes.name("ZipWith20")
4069 override val shape: FanInShape20[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20,
O] = new FanInShape20[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, O]("ZipWith20")
4070 def out: Outlet[O] = shape.out
4071 val in0: Inlet[A1] = shape.in0
4072 val in1: Inlet[A2] = shape.in1
4073 val in2: Inlet[A3] = shape.in2
4074 val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4072 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4072 (Code Correctness: Constructor Invokes Overridable Function) — Low

Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4072
Taint Flags:

```
4069  override val shape: FanInShape20[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, O] = new FanInShape20[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, O]("ZipWith20")
4070  def out: Outlet[O] = shape.out
4071  val in0: Inlet[A1] = shape.in0
4072  val in1: Inlet[A2] = shape.in1
4073  val in2: Inlet[A3] = shape.in2
4074  val in3: Inlet[A4] = shape.in3
4075  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4073 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4073
Taint Flags:

```
4070  def out: Outlet[O] = shape.out
4071  val in0: Inlet[A1] = shape.in0
4072  val in1: Inlet[A2] = shape.in1
4073  val in2: Inlet[A3] = shape.in2
4074  val in3: Inlet[A4] = shape.in3
4075  val in4: Inlet[A5] = shape.in4
4076  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4074 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4074
Taint Flags:

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4074 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
4071  val in0: Inlet[A1] = shape.in0
4072  val in1: Inlet[A2] = shape.in1
4073  val in2: Inlet[A3] = shape.in2
4074  val in3: Inlet[A4] = shape.in3
4075  val in4: Inlet[A5] = shape.in4
4076  val in5: Inlet[A6] = shape.in5
4077  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4075 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4075
Taint Flags:

```
4072  val in1: Inlet[A2] = shape.in1
4073  val in2: Inlet[A3] = shape.in2
4074  val in3: Inlet[A4] = shape.in3
4075  val in4: Inlet[A5] = shape.in4
4076  val in5: Inlet[A6] = shape.in5
4077  val in6: Inlet[A7] = shape.in6
4078  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4076 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4076
Taint Flags:

```
4073  val in2: Inlet[A3] = shape.in2
4074  val in3: Inlet[A4] = shape.in3
4075  val in4: Inlet[A5] = shape.in4
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4076 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
4076  val in5: Inlet[A6] = shape.in5
4077  val in6: Inlet[A7] = shape.in6
4078  val in7: Inlet[A8] = shape.in7
4079  val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4077 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4077
Taint Flags:

```
4074  val in3: Inlet[A4] = shape.in3
4075  val in4: Inlet[A5] = shape.in4
4076  val in5: Inlet[A6] = shape.in5
4077  val in6: Inlet[A7] = shape.in6
4078  val in7: Inlet[A8] = shape.in7
4079  val in8: Inlet[A9] = shape.in8
4080  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4078 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4078
Taint Flags:

```
4075  val in4: Inlet[A5] = shape.in4
4076  val in5: Inlet[A6] = shape.in5
4077  val in6: Inlet[A7] = shape.in6
4078  val in7: Inlet[A8] = shape.in7
4079  val in8: Inlet[A9] = shape.in8
4080  val in9: Inlet[A10] = shape.in9
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4078 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
4081 val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4079 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4079
Taint Flags:

```
4076 val in5: Inlet[A6] = shape.in5
4077 val in6: Inlet[A7] = shape.in6
4078 val in7: Inlet[A8] = shape.in7
4079 val in8: Inlet[A9] = shape.in8
4080 val in9: Inlet[A10] = shape.in9
4081 val in10: Inlet[A11] = shape.in10
4082 val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4080 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4080
Taint Flags:

```
4077 val in6: Inlet[A7] = shape.in6
4078 val in7: Inlet[A8] = shape.in7
4079 val in8: Inlet[A9] = shape.in8
4080 val in9: Inlet[A10] = shape.in9
4081 val in10: Inlet[A11] = shape.in10
4082 val in11: Inlet[A12] = shape.in11
4083 val in12: Inlet[A13] = shape.in12
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4081 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4081
Taint Flags:

```
4078 val in7: Inlet[A8] = shape.in7
4079 val in8: Inlet[A9] = shape.in8
4080 val in9: Inlet[A10] = shape.in9
4081 val in10: Inlet[A11] = shape.in10
4082 val in11: Inlet[A12] = shape.in11
4083 val in12: Inlet[A13] = shape.in12
4084 val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4082 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4082
Taint Flags:

```
4079 val in8: Inlet[A9] = shape.in8
4080 val in9: Inlet[A10] = shape.in9
4081 val in10: Inlet[A11] = shape.in10
4082 val in11: Inlet[A12] = shape.in11
4083 val in12: Inlet[A13] = shape.in12
4084 val in13: Inlet[A14] = shape.in13
4085 val in14: Inlet[A15] = shape.in14
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4083 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4083 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4083
Taint Flags:

```
4080 val in9: Inlet[A10] = shape.in9
4081 val in10: Inlet[A11] = shape.in10
4082 val in11: Inlet[A12] = shape.in11
4083 val in12: Inlet[A13] = shape.in12
4084 val in13: Inlet[A14] = shape.in13
4085 val in14: Inlet[A15] = shape.in14
4086 val in15: Inlet[A16] = shape.in15
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4084 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4084
Taint Flags:

```
4081 val in10: Inlet[A11] = shape.in10
4082 val in11: Inlet[A12] = shape.in11
4083 val in12: Inlet[A13] = shape.in12
4084 val in13: Inlet[A14] = shape.in13
4085 val in14: Inlet[A15] = shape.in14
4086 val in15: Inlet[A16] = shape.in15
4087 val in16: Inlet[A17] = shape.in16
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4085 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4085 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4085
Taint Flags:

```
4082  val in11: Inlet[A12] = shape.in11
4083  val in12: Inlet[A13] = shape.in12
4084  val in13: Inlet[A14] = shape.in13
4085  val in14: Inlet[A15] = shape.in14
4086  val in15: Inlet[A16] = shape.in15
4087  val in16: Inlet[A17] = shape.in16
4088  val in17: Inlet[A18] = shape.in17
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4086 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4086
Taint Flags:

```
4083  val in12: Inlet[A13] = shape.in12
4084  val in13: Inlet[A14] = shape.in13
4085  val in14: Inlet[A15] = shape.in14
4086  val in15: Inlet[A16] = shape.in15
4087  val in16: Inlet[A17] = shape.in16
4088  val in17: Inlet[A18] = shape.in17
4089  val in18: Inlet[A19] = shape.in18
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4087 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4087
Taint Flags:

```
4084  val in13: Inlet[A14] = shape.in13
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4087 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
4085  val in14: Inlet[A15] = shape.in14
4086  val in15: Inlet[A16] = shape.in15
4087  val in16: Inlet[A17] = shape.in16
4088  val in17: Inlet[A18] = shape.in17
4089  val in18: Inlet[A19] = shape.in18
4090  val in19: Inlet[A20] = shape.in19
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4088 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4088
Taint Flags:

```
4085  val in14: Inlet[A15] = shape.in14
4086  val in15: Inlet[A16] = shape.in15
4087  val in16: Inlet[A17] = shape.in16
4088  val in17: Inlet[A18] = shape.in17
4089  val in18: Inlet[A19] = shape.in18
4090  val in19: Inlet[A20] = shape.in19
4091
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4089 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4089
Taint Flags:

```
4086  val in15: Inlet[A16] = shape.in15
4087  val in16: Inlet[A17] = shape.in16
4088  val in17: Inlet[A18] = shape.in17
4089  val in18: Inlet[A19] = shape.in18
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4089 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
4090  val in19: Inlet[A20] = shape.in19
4091
4092  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4090 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4090
Taint Flags:

```
4087  val in16: Inlet[A17] = shape.in16
4088  val in17: Inlet[A18] = shape.in17
4089  val in18: Inlet[A19] = shape.in18
4090  val in19: Inlet[A20] = shape.in19
4091
4092  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
4093  var pending = 0
```

src/main/scala/akka/stream/scaladsl/MergeLatest.scala, line 44 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: MergeLatest()
File: src/main/scala/akka/stream/scaladsl/MergeLatest.scala:44
Taint Flags:

```
41
42  val in: immutable.IndexedSeq[Inlet[T]] = Vector.tabulate(inputPorts)(i => Inlet[T]("MergeLatest.in" + i))
43  val out: Outlet[M] = Outlet[M]("MergeLatest.out")
44  override val shape: UniformFanInShape[T, M] = UniformFanInShape(out, in: _*)
45
46  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
47  new GraphStageLogic(shape) with OutHandler {
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2743 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2743
Taint Flags:

```
2740  override def initialAttributes = Attributes.name("ZipLatestWith18")
2741  override val shape: FanInShape18[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, O] = new FanInShape18[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, O]("ZipLatestWith18")
2742  def out: Outlet[O] = shape.out
2743  val in0: Inlet[A1] = shape.in0
2744  val in1: Inlet[A2] = shape.in1
2745  val in2: Inlet[A3] = shape.in2
2746  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2744 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2744
Taint Flags:

```
2741  override val shape: FanInShape18[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, O] = new FanInShape18[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, O]("ZipLatestWith18")
2742  def out: Outlet[O] = shape.out
2743  val in0: Inlet[A1] = shape.in0
2744  val in1: Inlet[A2] = shape.in1
2745  val in2: Inlet[A3] = shape.in2
2746  val in3: Inlet[A4] = shape.in3
2747  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2745 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2745 (Code Correctness: Constructor Invokes Overridable Function) — Low

Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2745
Taint Flags:

```
2742  def out: Outlet[O] = shape.out
2743  val in0: Inlet[A1] = shape.in0
2744  val in1: Inlet[A2] = shape.in1
2745  val in2: Inlet[A3] = shape.in2
2746  val in3: Inlet[A4] = shape.in3
2747  val in4: Inlet[A5] = shape.in4
2748  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2746 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2746
Taint Flags:

```
2743  val in0: Inlet[A1] = shape.in0
2744  val in1: Inlet[A2] = shape.in1
2745  val in2: Inlet[A3] = shape.in2
2746  val in3: Inlet[A4] = shape.in3
2747  val in4: Inlet[A5] = shape.in4
2748  val in5: Inlet[A6] = shape.in5
2749  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2747 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2747 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2747
Taint Flags:

```
2744 val in1: Inlet[A2] = shape.in1
2745 val in2: Inlet[A3] = shape.in2
2746 val in3: Inlet[A4] = shape.in3
2747 val in4: Inlet[A5] = shape.in4
2748 val in5: Inlet[A6] = shape.in5
2749 val in6: Inlet[A7] = shape.in6
2750 val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2748 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2748
Taint Flags:

```
2745 val in2: Inlet[A3] = shape.in2
2746 val in3: Inlet[A4] = shape.in3
2747 val in4: Inlet[A5] = shape.in4
2748 val in5: Inlet[A6] = shape.in5
2749 val in6: Inlet[A7] = shape.in6
2750 val in7: Inlet[A8] = shape.in7
2751 val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2749 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2749
Taint Flags:

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2749 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
2746  val in3: Inlet[A4] = shape.in3
2747  val in4: Inlet[A5] = shape.in4
2748  val in5: Inlet[A6] = shape.in5
2749  val in6: Inlet[A7] = shape.in6
2750  val in7: Inlet[A8] = shape.in7
2751  val in8: Inlet[A9] = shape.in8
2752  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2750 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2750
Taint Flags:

```
2747  val in4: Inlet[A5] = shape.in4
2748  val in5: Inlet[A6] = shape.in5
2749  val in6: Inlet[A7] = shape.in6
2750  val in7: Inlet[A8] = shape.in7
2751  val in8: Inlet[A9] = shape.in8
2752  val in9: Inlet[A10] = shape.in9
2753  val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2751 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2751
Taint Flags:

```
2748  val in5: Inlet[A6] = shape.in5
2749  val in6: Inlet[A7] = shape.in6
2750  val in7: Inlet[A8] = shape.in7
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2751 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
2751  val in8: Inlet[A9] = shape.in8
2752  val in9: Inlet[A10] = shape.in9
2753  val in10: Inlet[A11] = shape.in10
2754  val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2752 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2752
Taint Flags:

```
2749  val in6: Inlet[A7] = shape.in6
2750  val in7: Inlet[A8] = shape.in7
2751  val in8: Inlet[A9] = shape.in8
2752  val in9: Inlet[A10] = shape.in9
2753  val in10: Inlet[A11] = shape.in10
2754  val in11: Inlet[A12] = shape.in11
2755  val in12: Inlet[A13] = shape.in12
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2753 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2753
Taint Flags:

```
2750  val in7: Inlet[A8] = shape.in7
2751  val in8: Inlet[A9] = shape.in8
2752  val in9: Inlet[A10] = shape.in9
2753  val in10: Inlet[A11] = shape.in10
2754  val in11: Inlet[A12] = shape.in11
2755  val in12: Inlet[A13] = shape.in12
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2753 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
2756  val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2754 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2754
Taint Flags:

```
2751  val in8: Inlet[A9] = shape.in8
2752  val in9: Inlet[A10] = shape.in9
2753  val in10: Inlet[A11] = shape.in10
2754  val in11: Inlet[A12] = shape.in11
2755  val in12: Inlet[A13] = shape.in12
2756  val in13: Inlet[A14] = shape.in13
2757  val in14: Inlet[A15] = shape.in14
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2755 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2755
Taint Flags:

```
2752  val in9: Inlet[A10] = shape.in9
2753  val in10: Inlet[A11] = shape.in10
2754  val in11: Inlet[A12] = shape.in11
2755  val in12: Inlet[A13] = shape.in12
2756  val in13: Inlet[A14] = shape.in13
2757  val in14: Inlet[A15] = shape.in14
2758  val in15: Inlet[A16] = shape.in15
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2756 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2756
Taint Flags:

```
2753  val in10: Inlet[A11] = shape.in10
2754  val in11: Inlet[A12] = shape.in11
2755  val in12: Inlet[A13] = shape.in12
2756  val in13: Inlet[A14] = shape.in13
2757  val in14: Inlet[A15] = shape.in14
2758  val in15: Inlet[A16] = shape.in15
2759  val in16: Inlet[A17] = shape.in16
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2757 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2757
Taint Flags:

```
2754  val in11: Inlet[A12] = shape.in11
2755  val in12: Inlet[A13] = shape.in12
2756  val in13: Inlet[A14] = shape.in13
2757  val in14: Inlet[A15] = shape.in14
2758  val in15: Inlet[A16] = shape.in15
2759  val in16: Inlet[A17] = shape.in16
2760  val in17: Inlet[A18] = shape.in17
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2758 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2758 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2758
Taint Flags:

```
2755  val in12: Inlet[A13] = shape.in12
2756  val in13: Inlet[A14] = shape.in13
2757  val in14: Inlet[A15] = shape.in14
2758  val in15: Inlet[A16] = shape.in15
2759  val in16: Inlet[A17] = shape.in16
2760  val in17: Inlet[A18] = shape.in17
2761
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2759 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2759
Taint Flags:

```
2756  val in13: Inlet[A14] = shape.in13
2757  val in14: Inlet[A15] = shape.in14
2758  val in15: Inlet[A16] = shape.in15
2759  val in16: Inlet[A17] = shape.in16
2760  val in17: Inlet[A18] = shape.in17
2761
2762  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18) => O) = this(zipper,
eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2760 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2760 (Code Correctness: Constructor Invokes Overridable Function) — Low

Enclosing Method: ZipLatestWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2760
Taint Flags:

```
2757  val in14: Inlet[A15] = shape.in14
2758  val in15: Inlet[A16] = shape.in15
2759  val in16: Inlet[A17] = shape.in16
2760  val in17: Inlet[A18] = shape.in17
2761
2762  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18) => O) = this(zipper,
eagerComplete = true)
2763
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 730 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith7()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:730
Taint Flags:

```
727  override def initialAttributes = Attributes.name("ZipWith7")
728  override val shape: FanInShape7[A1, A2, A3, A4, A5, A6, A7, O] = new FanInShape7[A1, A2, A3, A4, A5, A6, A7, O]("ZipWith7")
729  def out: Outlet[O] = shape.out
730  val in0: Inlet[A1] = shape.in0
731  val in1: Inlet[A2] = shape.in1
732  val in2: Inlet[A3] = shape.in2
733  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 731 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith7()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:731
Taint Flags:

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 731 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
728 override val shape: FanInShape7[A1, A2, A3, A4, A5, A6, A7, O] = new FanInShape7[A1, A2, A3, A4, A5, A6, A7, O]("ZipWith7")
729 def out: Outlet[O] = shape.out
730 val in0: Inlet[A1] = shape.in0
731 val in1: Inlet[A2] = shape.in1
732 val in2: Inlet[A3] = shape.in2
733 val in3: Inlet[A4] = shape.in3
734 val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 732 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith7()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:732
Taint Flags:

```
729 def out: Outlet[O] = shape.out
730 val in0: Inlet[A1] = shape.in0
731 val in1: Inlet[A2] = shape.in1
732 val in2: Inlet[A3] = shape.in2
733 val in3: Inlet[A4] = shape.in3
734 val in4: Inlet[A5] = shape.in4
735 val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 733 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith7()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:733
Taint Flags:

```
730 val in0: Inlet[A1] = shape.in0
731 val in1: Inlet[A2] = shape.in1
732 val in2: Inlet[A3] = shape.in2
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 733 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
733  val in3: Inlet[A4] = shape.in3
734  val in4: Inlet[A5] = shape.in4
735  val in5: Inlet[A6] = shape.in5
736  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 734 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith7()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:734
Taint Flags:

```
731  val in1: Inlet[A2] = shape.in1
732  val in2: Inlet[A3] = shape.in2
733  val in3: Inlet[A4] = shape.in3
734  val in4: Inlet[A5] = shape.in4
735  val in5: Inlet[A6] = shape.in5
736  val in6: Inlet[A7] = shape.in6
737
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 735 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith7()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:735
Taint Flags:

```
732  val in2: Inlet[A3] = shape.in2
733  val in3: Inlet[A4] = shape.in3
734  val in4: Inlet[A5] = shape.in4
735  val in5: Inlet[A6] = shape.in5
736  val in6: Inlet[A7] = shape.in6
737
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 735 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
738 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 736 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith7()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:736
Taint Flags:

```
733 val in3: Inlet[A4] = shape.in3
734 val in4: Inlet[A5] = shape.in4
735 val in5: Inlet[A6] = shape.in5
736 val in6: Inlet[A7] = shape.in6
737
738 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
739 var pending = 0
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 280 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith3()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:280
Taint Flags:

```
277 override def initialAttributes = Attributes.name("ZipWith3")
278 override val shape: FanInShape3[A1, A2, A3, O] = new FanInShape3[A1, A2, A3, O]("ZipWith3")
279 def out: Outlet[O] = shape.out
280 val in0: Inlet[A1] = shape.in0
281 val in1: Inlet[A2] = shape.in1
282 val in2: Inlet[A3] = shape.in2
283
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 281 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith3()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:281
Taint Flags:

```
278 override val shape: FanInShape3[A1, A2, A3, O] = new FanInShape3[A1, A2, A3, O]("ZipWith3")
279 def out: Outlet[O] = shape.out
280 val in0: Inlet[A1] = shape.in0
281 val in1: Inlet[A2] = shape.in1
282 val in2: Inlet[A3] = shape.in2
283
284 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 282 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith3()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:282
Taint Flags:

```
279 def out: Outlet[O] = shape.out
280 val in0: Inlet[A1] = shape.in0
281 val in1: Inlet[A2] = shape.in1
282 val in2: Inlet[A3] = shape.in2
283
284 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
285 var pending = 0
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 707 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 707 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: outMain
Enclosing Method: WireTap()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:707
Taint Flags:

```
704 val outMain: Outlet[T] = Outlet[T]("WireTap.outMain")
705 val outTap: Outlet[T] = Outlet[T]("WireTap.outTap")
706 override def initialAttributes = DefaultAttributes.wireTap
707 override val shape: FanOutShape2[T, T, T] = new FanOutShape2(in, outMain, outTap)
708
709 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
710 private var pendingTap: Option[T] = None
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2172 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2172
Taint Flags:

```
2169 override def initialAttributes = Attributes.name("ZipWith14")
2170 override val shape: FanInShape14[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, O] = new FanInShape14[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, O]("ZipWith14")
2171 def out: Outlet[O] = shape.out
2172 val in0: Inlet[A1] = shape.in0
2173 val in1: Inlet[A2] = shape.in1
2174 val in2: Inlet[A3] = shape.in2
2175 val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2173 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2173 (Code Correctness: Constructor Invokes Overridable Function) — Low

Enclosing Method: ZipWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2173
Taint Flags:

```
2170  override val shape: FanInShape14[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, O] = new FanInShape14[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, O]("ZipWith14")
2171  def out: Outlet[O] = shape.out
2172  val in0: Inlet[A1] = shape.in0
2173  val in1: Inlet[A2] = shape.in1
2174  val in2: Inlet[A3] = shape.in2
2175  val in3: Inlet[A4] = shape.in3
2176  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2174 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2174
Taint Flags:

```
2171  def out: Outlet[O] = shape.out
2172  val in0: Inlet[A1] = shape.in0
2173  val in1: Inlet[A2] = shape.in1
2174  val in2: Inlet[A3] = shape.in2
2175  val in3: Inlet[A4] = shape.in3
2176  val in4: Inlet[A5] = shape.in4
2177  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2175 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2175
Taint Flags:

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2175 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
2172  val in0: Inlet[A1] = shape.in0
2173  val in1: Inlet[A2] = shape.in1
2174  val in2: Inlet[A3] = shape.in2
2175  val in3: Inlet[A4] = shape.in3
2176  val in4: Inlet[A5] = shape.in4
2177  val in5: Inlet[A6] = shape.in5
2178  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2176 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2176
Taint Flags:

```
2173  val in1: Inlet[A2] = shape.in1
2174  val in2: Inlet[A3] = shape.in2
2175  val in3: Inlet[A4] = shape.in3
2176  val in4: Inlet[A5] = shape.in4
2177  val in5: Inlet[A6] = shape.in5
2178  val in6: Inlet[A7] = shape.in6
2179  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2177 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2177
Taint Flags:

```
2174  val in2: Inlet[A3] = shape.in2
2175  val in3: Inlet[A4] = shape.in3
2176  val in4: Inlet[A5] = shape.in4
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2177 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
2177  val in5: Inlet[A6] = shape.in5
2178  val in6: Inlet[A7] = shape.in6
2179  val in7: Inlet[A8] = shape.in7
2180  val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2178 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2178
Taint Flags:

```
2175  val in3: Inlet[A4] = shape.in3
2176  val in4: Inlet[A5] = shape.in4
2177  val in5: Inlet[A6] = shape.in5
2178  val in6: Inlet[A7] = shape.in6
2179  val in7: Inlet[A8] = shape.in7
2180  val in8: Inlet[A9] = shape.in8
2181  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2179 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2179
Taint Flags:

```
2176  val in4: Inlet[A5] = shape.in4
2177  val in5: Inlet[A6] = shape.in5
2178  val in6: Inlet[A7] = shape.in6
2179  val in7: Inlet[A8] = shape.in7
2180  val in8: Inlet[A9] = shape.in8
2181  val in9: Inlet[A10] = shape.in9
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2179 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
2182  val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2180 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2180
Taint Flags:

```
2177  val in5: Inlet[A6] = shape.in5
2178  val in6: Inlet[A7] = shape.in6
2179  val in7: Inlet[A8] = shape.in7
2180  val in8: Inlet[A9] = shape.in8
2181  val in9: Inlet[A10] = shape.in9
2182  val in10: Inlet[A11] = shape.in10
2183  val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2181 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2181
Taint Flags:

```
2178  val in6: Inlet[A7] = shape.in6
2179  val in7: Inlet[A8] = shape.in7
2180  val in8: Inlet[A9] = shape.in8
2181  val in9: Inlet[A10] = shape.in9
2182  val in10: Inlet[A11] = shape.in10
2183  val in11: Inlet[A12] = shape.in11
2184  val in12: Inlet[A13] = shape.in12
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2182 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2182
Taint Flags:

```
2179  val in7: Inlet[A8] = shape.in7
2180  val in8: Inlet[A9] = shape.in8
2181  val in9: Inlet[A10] = shape.in9
2182  val in10: Inlet[A11] = shape.in10
2183  val in11: Inlet[A12] = shape.in11
2184  val in12: Inlet[A13] = shape.in12
2185  val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2183 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2183
Taint Flags:

```
2180  val in8: Inlet[A9] = shape.in8
2181  val in9: Inlet[A10] = shape.in9
2182  val in10: Inlet[A11] = shape.in10
2183  val in11: Inlet[A12] = shape.in11
2184  val in12: Inlet[A13] = shape.in12
2185  val in13: Inlet[A14] = shape.in13
2186
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2184 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2184 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2184
Taint Flags:

```
2181 val in9: Inlet[A10] = shape.in9
2182 val in10: Inlet[A11] = shape.in10
2183 val in11: Inlet[A12] = shape.in11
2184 val in12: Inlet[A13] = shape.in12
2185 val in13: Inlet[A14] = shape.in13
2186
2187 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2185 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2185
Taint Flags:

```
2182 val in10: Inlet[A11] = shape.in10
2183 val in11: Inlet[A12] = shape.in11
2184 val in12: Inlet[A13] = shape.in12
2185 val in13: Inlet[A14] = shape.in13
2186
2187 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
2188 var pending = 0
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 610 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: Broadcast()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 610 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/scaladsl/Graph.scala:610
Taint Flags:

```
607 val in: Inlet[T] = Inlet[T]("Broadcast.in")
608 val out: immutable.IndexedSeq[Outlet[T]] = Vector.tabulate(outputPorts)(i => Outlet[T]("Broadcast.out" + i))
609 override def initialAttributes = DefaultAttributes.broadcast
610 override val shape: UniformFanOutShape[T, T] = UniformFanOutShape(in, out: _*)
611
612 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
613 new GraphStageLogic(shape) with InHandler {
```

src/main/scala/akka/stream/scaladsl/Flow.scala, line 359 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: identityTraversalBuilder
Enclosing Method: Flow()
File: src/main/scala/akka/stream/scaladsl/Flow.scala:359
Taint Flags:

```
356 LinearTraversalBuilder.fromBuilder(GraphStages.identity.traversalBuilder, GraphStages.identity.shape, Keep.right)
357
358 private[this] val identity: Flow[Any, Any, NotUsed] =
359 new Flow[Any, Any, NotUsed](identityTraversalBuilder, GraphStages.identity.shape)
360
361 /**
362 * Creates a Flow from a Reactive Streams [[org.reactivestreams.Processor]]
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 367 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith4()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:367
Taint Flags:

```
364 override def initialAttributes = Attributes.name("ZipWith4")
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 367 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
365 override val shape: FanInShape4[A1, A2, A3, A4, O] = new FanInShape4[A1, A2, A3, A4, O]("ZipWith4")
366 def out: Outlet[O] = shape.out
367 val in0: Inlet[A1] = shape.in0
368 val in1: Inlet[A2] = shape.in1
369 val in2: Inlet[A3] = shape.in2
370 val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 368 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith4()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:368
Taint Flags:

```
365 override val shape: FanInShape4[A1, A2, A3, A4, O] = new FanInShape4[A1, A2, A3, A4, O]("ZipWith4")
366 def out: Outlet[O] = shape.out
367 val in0: Inlet[A1] = shape.in0
368 val in1: Inlet[A2] = shape.in1
369 val in2: Inlet[A3] = shape.in2
370 val in3: Inlet[A4] = shape.in3
371
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 369 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith4()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:369
Taint Flags:

```
366 def out: Outlet[O] = shape.out
367 val in0: Inlet[A1] = shape.in0
368 val in1: Inlet[A2] = shape.in1
369 val in2: Inlet[A3] = shape.in2
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 369 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
370  val in3: Inlet[A4] = shape.in3
371
372  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 370 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith4()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:370
Taint Flags:

```
367  val in0: Inlet[A1] = shape.in0
368  val in1: Inlet[A2] = shape.in1
369  val in2: Inlet[A3] = shape.in2
370  val in3: Inlet[A4] = shape.in3
371
372  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
373  var pending = 0
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 802 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: Partition()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:802
Taint Flags:

```
799
800  val in: Inlet[T] = Inlet[T]("Partition.in")
801  val out: Seq[Outlet[T]] = Seq.tabulate(outputPorts)(i => Outlet[T]("Partition.out" + i)) // FIXME BC make this immutable.IndexedSeq as type + Vector as concrete impl
802  override val shape: UniformFanOutShape[T, T] = UniformFanOutShape[T, T](in, out: _*)
803
804  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
805  new GraphStageLogic(shape) with InHandler {
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 802 (Code Correctness: Constructor Invokes Overridable Function) **Low**

src/main/scala/akka/stream/scaladsl/Source.scala, line 509 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: future
Enclosing Method: Source()
File: src/main/scala/akka/stream/scaladsl/Source.scala:509
Taint Flags:

```
506 * This stream could be useful in tests.
507 */
508 def never[T]: Source[T, NotUsed] = _never
509 private[this] val _never: Source[Nothing, NotUsed] =
510 future(Future.never).withAttributes(DefaultAttributes.neverSource)
511
512 /**
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4447 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4447
Taint Flags:

```
4444 override def initialAttributes = Attributes.name("ZipWith21")
4445 override val shape: FanInShape21[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, O] = new FanInShape21[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, O] ("ZipWith21")
4446 def out: Outlet[O] = shape.out
4447 val in0: Inlet[A1] = shape.in0
4448 val in1: Inlet[A2] = shape.in1
4449 val in2: Inlet[A3] = shape.in2
4450 val in3: Inlet[A4] = shape.in3
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4448 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4448
Taint Flags:

```
4445  override val shape: FanInShape21[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, O] = new FanInShape21[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, O] ("ZipWith21")
4446  def out: Outlet[O] = shape.out
4447  val in0: Inlet[A1] = shape.in0
4448  val in1: Inlet[A2] = shape.in1
4449  val in2: Inlet[A3] = shape.in2
4450  val in3: Inlet[A4] = shape.in3
4451  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4449 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4449
Taint Flags:

```
4446  def out: Outlet[O] = shape.out
4447  val in0: Inlet[A1] = shape.in0
4448  val in1: Inlet[A2] = shape.in1
4449  val in2: Inlet[A3] = shape.in2
4450  val in3: Inlet[A4] = shape.in3
4451  val in4: Inlet[A5] = shape.in4
4452  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4450 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4450 (Code Correctness: Constructor Invokes Overridable Function) — Low

Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4450
Taint Flags:

```
4447 val in0: Inlet[A1] = shape.in0
4448 val in1: Inlet[A2] = shape.in1
4449 val in2: Inlet[A3] = shape.in2
4450 val in3: Inlet[A4] = shape.in3
4451 val in4: Inlet[A5] = shape.in4
4452 val in5: Inlet[A6] = shape.in5
4453 val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4451 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4451
Taint Flags:

```
4448 val in1: Inlet[A2] = shape.in1
4449 val in2: Inlet[A3] = shape.in2
4450 val in3: Inlet[A4] = shape.in3
4451 val in4: Inlet[A5] = shape.in4
4452 val in5: Inlet[A6] = shape.in5
4453 val in6: Inlet[A7] = shape.in6
4454 val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4452 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4452 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4452
Taint Flags:

```
4449 val in2: Inlet[A3] = shape.in2
4450 val in3: Inlet[A4] = shape.in3
4451 val in4: Inlet[A5] = shape.in4
4452 val in5: Inlet[A6] = shape.in5
4453 val in6: Inlet[A7] = shape.in6
4454 val in7: Inlet[A8] = shape.in7
4455 val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4453 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4453
Taint Flags:

```
4450 val in3: Inlet[A4] = shape.in3
4451 val in4: Inlet[A5] = shape.in4
4452 val in5: Inlet[A6] = shape.in5
4453 val in6: Inlet[A7] = shape.in6
4454 val in7: Inlet[A8] = shape.in7
4455 val in8: Inlet[A9] = shape.in8
4456 val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4454 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4454
Taint Flags:

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4454 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
4451  val in4: Inlet[A5] = shape.in4
4452  val in5: Inlet[A6] = shape.in5
4453  val in6: Inlet[A7] = shape.in6
4454  val in7: Inlet[A8] = shape.in7
4455  val in8: Inlet[A9] = shape.in8
4456  val in9: Inlet[A10] = shape.in9
4457  val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4455 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4455
Taint Flags:

```
4452  val in5: Inlet[A6] = shape.in5
4453  val in6: Inlet[A7] = shape.in6
4454  val in7: Inlet[A8] = shape.in7
4455  val in8: Inlet[A9] = shape.in8
4456  val in9: Inlet[A10] = shape.in9
4457  val in10: Inlet[A11] = shape.in10
4458  val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4456 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4456
Taint Flags:

```
4453  val in6: Inlet[A7] = shape.in6
4454  val in7: Inlet[A8] = shape.in7
4455  val in8: Inlet[A9] = shape.in8
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4456 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
4456 val in9: Inlet[A10] = shape.in9
4457 val in10: Inlet[A11] = shape.in10
4458 val in11: Inlet[A12] = shape.in11
4459 val in12: Inlet[A13] = shape.in12
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4457 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4457
Taint Flags:

```
4454 val in7: Inlet[A8] = shape.in7
4455 val in8: Inlet[A9] = shape.in8
4456 val in9: Inlet[A10] = shape.in9
4457 val in10: Inlet[A11] = shape.in10
4458 val in11: Inlet[A12] = shape.in11
4459 val in12: Inlet[A13] = shape.in12
4460 val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4458 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4458
Taint Flags:

```
4455 val in8: Inlet[A9] = shape.in8
4456 val in9: Inlet[A10] = shape.in9
4457 val in10: Inlet[A11] = shape.in10
4458 val in11: Inlet[A12] = shape.in11
4459 val in12: Inlet[A13] = shape.in12
4460 val in13: Inlet[A14] = shape.in13
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4458 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
4461 val in14: Inlet[A15] = shape.in14
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4459 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4459
Taint Flags:

```
4456 val in9: Inlet[A10] = shape.in9
4457 val in10: Inlet[A11] = shape.in10
4458 val in11: Inlet[A12] = shape.in11
4459 val in12: Inlet[A13] = shape.in12
4460 val in13: Inlet[A14] = shape.in13
4461 val in14: Inlet[A15] = shape.in14
4462 val in15: Inlet[A16] = shape.in15
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4460 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4460
Taint Flags:

```
4457 val in10: Inlet[A11] = shape.in10
4458 val in11: Inlet[A12] = shape.in11
4459 val in12: Inlet[A13] = shape.in12
4460 val in13: Inlet[A14] = shape.in13
4461 val in14: Inlet[A15] = shape.in14
4462 val in15: Inlet[A16] = shape.in15
4463 val in16: Inlet[A17] = shape.in16
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4461 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4461
Taint Flags:

```
4458 val in11: Inlet[A12] = shape.in11
4459 val in12: Inlet[A13] = shape.in12
4460 val in13: Inlet[A14] = shape.in13
4461 val in14: Inlet[A15] = shape.in14
4462 val in15: Inlet[A16] = shape.in15
4463 val in16: Inlet[A17] = shape.in16
4464 val in17: Inlet[A18] = shape.in17
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4462 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4462
Taint Flags:

```
4459 val in12: Inlet[A13] = shape.in12
4460 val in13: Inlet[A14] = shape.in13
4461 val in14: Inlet[A15] = shape.in14
4462 val in15: Inlet[A16] = shape.in15
4463 val in16: Inlet[A17] = shape.in16
4464 val in17: Inlet[A18] = shape.in17
4465 val in18: Inlet[A19] = shape.in18
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4463 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4463 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4463
Taint Flags:

```
4460 val in13: Inlet[A14] = shape.in13
4461 val in14: Inlet[A15] = shape.in14
4462 val in15: Inlet[A16] = shape.in15
4463 val in16: Inlet[A17] = shape.in16
4464 val in17: Inlet[A18] = shape.in17
4465 val in18: Inlet[A19] = shape.in18
4466 val in19: Inlet[A20] = shape.in19
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4464 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4464
Taint Flags:

```
4461 val in14: Inlet[A15] = shape.in14
4462 val in15: Inlet[A16] = shape.in15
4463 val in16: Inlet[A17] = shape.in16
4464 val in17: Inlet[A18] = shape.in17
4465 val in18: Inlet[A19] = shape.in18
4466 val in19: Inlet[A20] = shape.in19
4467 val in20: Inlet[A21] = shape.in20
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4465 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4465 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4465
Taint Flags:

```
4462  val in15: Inlet[A16] = shape.in15
4463  val in16: Inlet[A17] = shape.in16
4464  val in17: Inlet[A18] = shape.in17
4465  val in18: Inlet[A19] = shape.in18
4466  val in19: Inlet[A20] = shape.in19
4467  val in20: Inlet[A21] = shape.in20
4468
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4466 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4466
Taint Flags:

```
4463  val in16: Inlet[A17] = shape.in16
4464  val in17: Inlet[A18] = shape.in17
4465  val in18: Inlet[A19] = shape.in18
4466  val in19: Inlet[A20] = shape.in19
4467  val in20: Inlet[A21] = shape.in20
4468
4469  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4467 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4467
Taint Flags:

```
4464  val in17: Inlet[A18] = shape.in17
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4467 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
4465  val in18: Inlet[A19] = shape.in18
4466  val in19: Inlet[A20] = shape.in19
4467  val in20: Inlet[A21] = shape.in20
4468
4469  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
4470  var pending = 0
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 942 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: Balance()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:942
Taint Flags:

```
939  val in: Inlet[T] = Inlet[T]("Balance.in")
940  val out: immutable.IndexedSeq[Outlet[T]] = Vector.tabulate(outputPorts)(i => Outlet[T]("Balance.out" + i))
941  override def initialAttributes = DefaultAttributes.balance
942  override val shape: UniformFanOutShape[T, T] = UniformFanOutShape[T, T](in, out: _*)
943
944  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
945  new GraphStageLogic(shape) with InHandler {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2167 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2167
Taint Flags:

```
2164  override def initialAttributes = Attributes.name("ZipLatestWith15")
2165  override val shape: FanInShape15[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, O] = new FanInShape15[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, O]("ZipLatestWith15")
2166  def out: Outlet[O] = shape.out
2167  val in0: Inlet[A1] = shape.in0
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2167 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
2168  val in1: Inlet[A2] = shape.in1
2169  val in2: Inlet[A3] = shape.in2
2170  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2168 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2168
Taint Flags:

```
2165  override val shape: FanInShape15[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, O] = new FanInShape15[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, O]("ZipLatestWith15")
2166  def out: Outlet[O] = shape.out
2167  val in0: Inlet[A1] = shape.in0
2168  val in1: Inlet[A2] = shape.in1
2169  val in2: Inlet[A3] = shape.in2
2170  val in3: Inlet[A4] = shape.in3
2171  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2169 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2169
Taint Flags:

```
2166  def out: Outlet[O] = shape.out
2167  val in0: Inlet[A1] = shape.in0
2168  val in1: Inlet[A2] = shape.in1
2169  val in2: Inlet[A3] = shape.in2
2170  val in3: Inlet[A4] = shape.in3
2171  val in4: Inlet[A5] = shape.in4
2172  val in5: Inlet[A6] = shape.in5
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2169 (Code Correctness: Constructor Invokes Overridable Function)	Low

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2170 (Code Correctness: Constructor Invokes Overridable Function)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2170
Taint Flags:

```
2167  val in0: Inlet[A1] = shape.in0
2168  val in1: Inlet[A2] = shape.in1
2169  val in2: Inlet[A3] = shape.in2
2170  val in3: Inlet[A4] = shape.in3
2171  val in4: Inlet[A5] = shape.in4
2172  val in5: Inlet[A6] = shape.in5
2173  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2171 (Code Correctness: Constructor Invokes Overridable Function)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2171
Taint Flags:

```
2168  val in1: Inlet[A2] = shape.in1
2169  val in2: Inlet[A3] = shape.in2
2170  val in3: Inlet[A4] = shape.in3
2171  val in4: Inlet[A5] = shape.in4
2172  val in5: Inlet[A6] = shape.in5
2173  val in6: Inlet[A7] = shape.in6
2174  val in7: Inlet[A8] = shape.in7
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2172 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2172
Taint Flags:

```
2169 val in2: Inlet[A3] = shape.in2
2170 val in3: Inlet[A4] = shape.in3
2171 val in4: Inlet[A5] = shape.in4
2172 val in5: Inlet[A6] = shape.in5
2173 val in6: Inlet[A7] = shape.in6
2174 val in7: Inlet[A8] = shape.in7
2175 val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2173 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2173
Taint Flags:

```
2170 val in3: Inlet[A4] = shape.in3
2171 val in4: Inlet[A5] = shape.in4
2172 val in5: Inlet[A6] = shape.in5
2173 val in6: Inlet[A7] = shape.in6
2174 val in7: Inlet[A8] = shape.in7
2175 val in8: Inlet[A9] = shape.in8
2176 val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2174 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2174 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2174
Taint Flags:

```
2171  val in4: Inlet[A5] = shape.in4
2172  val in5: Inlet[A6] = shape.in5
2173  val in6: Inlet[A7] = shape.in6
2174  val in7: Inlet[A8] = shape.in7
2175  val in8: Inlet[A9] = shape.in8
2176  val in9: Inlet[A10] = shape.in9
2177  val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2175 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2175
Taint Flags:

```
2172  val in5: Inlet[A6] = shape.in5
2173  val in6: Inlet[A7] = shape.in6
2174  val in7: Inlet[A8] = shape.in7
2175  val in8: Inlet[A9] = shape.in8
2176  val in9: Inlet[A10] = shape.in9
2177  val in10: Inlet[A11] = shape.in10
2178  val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2176 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith15()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2176 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2176
Taint Flags:

```
2173  val in6: Inlet[A7] = shape.in6
2174  val in7: Inlet[A8] = shape.in7
2175  val in8: Inlet[A9] = shape.in8
2176  val in9: Inlet[A10] = shape.in9
2177  val in10: Inlet[A11] = shape.in10
2178  val in11: Inlet[A12] = shape.in11
2179  val in12: Inlet[A13] = shape.in12
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2177 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2177
Taint Flags:

```
2174  val in7: Inlet[A8] = shape.in7
2175  val in8: Inlet[A9] = shape.in8
2176  val in9: Inlet[A10] = shape.in9
2177  val in10: Inlet[A11] = shape.in10
2178  val in11: Inlet[A12] = shape.in11
2179  val in12: Inlet[A13] = shape.in12
2180  val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2178 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2178
Taint Flags:

```
2175  val in8: Inlet[A9] = shape.in8
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2178 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
2176  val in9: Inlet[A10] = shape.in9
2177  val in10: Inlet[A11] = shape.in10
2178  val in11: Inlet[A12] = shape.in11
2179  val in12: Inlet[A13] = shape.in12
2180  val in13: Inlet[A14] = shape.in13
2181  val in14: Inlet[A15] = shape.in14
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2179 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2179
Taint Flags:

```
2176  val in9: Inlet[A10] = shape.in9
2177  val in10: Inlet[A11] = shape.in10
2178  val in11: Inlet[A12] = shape.in11
2179  val in12: Inlet[A13] = shape.in12
2180  val in13: Inlet[A14] = shape.in13
2181  val in14: Inlet[A15] = shape.in14
2182
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2180 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2180
Taint Flags:

```
2177  val in10: Inlet[A11] = shape.in10
2178  val in11: Inlet[A12] = shape.in11
2179  val in12: Inlet[A13] = shape.in12
2180  val in13: Inlet[A14] = shape.in13
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2180 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
2181  val in14: Inlet[A15] = shape.in14
2182
2183  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2181 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2181
Taint Flags:

```
2178  val in11: Inlet[A12] = shape.in11
2179  val in12: Inlet[A13] = shape.in12
2180  val in13: Inlet[A14] = shape.in13
2181  val in14: Inlet[A15] = shape.in14
2182
2183  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15) => O) = this(zipper, eagerComplete = true)
2184
```

src/main/scala/akka/stream/scaladsl/MergeLatest.scala, line 44 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: MergeLatest()
File: src/main/scala/akka/stream/scaladsl/MergeLatest.scala:44
Taint Flags:

```
41
42  val in: immutable.IndexedSeq[Inlet[T]] = Vector.tabulate(inputPorts)(i => Inlet[T]("MergeLatest.in" + i))
43  val out: Outlet[M] = Outlet[M]("MergeLatest.out")
44  override val shape: UniformFanInShape[T, M] = UniformFanInShape(out, in: _*)
45
46  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
47  new GraphStageLogic(shape) with OutHandler {
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 702 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith5()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:702
Taint Flags:

```
699 override def initialAttributes = Attributes.name("ZipLatestWith5")
700 override val shape: FanInShape5[A1, A2, A3, A4, A5, O] = new FanInShape5[A1, A2, A3, A4, A5, O]("ZipLatestWith5")
701 def out: Outlet[O] = shape.out
702 val in0: Inlet[A1] = shape.in0
703 val in1: Inlet[A2] = shape.in1
704 val in2: Inlet[A3] = shape.in2
705 val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 703 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith5()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:703
Taint Flags:

```
700 override val shape: FanInShape5[A1, A2, A3, A4, A5, O] = new FanInShape5[A1, A2, A3, A4, A5, O]("ZipLatestWith5")
701 def out: Outlet[O] = shape.out
702 val in0: Inlet[A1] = shape.in0
703 val in1: Inlet[A2] = shape.in1
704 val in2: Inlet[A3] = shape.in2
705 val in3: Inlet[A4] = shape.in3
706 val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 704 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 704 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith5()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:704
Taint Flags:

```
701 def out: Outlet[O] = shape.out
702 val in0: Inlet[A1] = shape.in0
703 val in1: Inlet[A2] = shape.in1
704 val in2: Inlet[A3] = shape.in2
705 val in3: Inlet[A4] = shape.in3
706 val in4: Inlet[A5] = shape.in4
707
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 705 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith5()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:705
Taint Flags:

```
702 val in0: Inlet[A1] = shape.in0
703 val in1: Inlet[A2] = shape.in1
704 val in2: Inlet[A3] = shape.in2
705 val in3: Inlet[A4] = shape.in3
706 val in4: Inlet[A5] = shape.in4
707
708 def this(zipper: (A1, A2, A3, A4, A5) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 706 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith5()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 706 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:706
Taint Flags:

```
703 val in1: Inlet[A2] = shape.in1
704 val in2: Inlet[A3] = shape.in2
705 val in3: Inlet[A4] = shape.in3
706 val in4: Inlet[A5] = shape.in4
707
708 def this(zipper: (A1, A2, A3, A4, A5) => O) = this(zipper, eagerComplete = true)
709
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1989 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1989
Taint Flags:

```
1986 override def initialAttributes = Attributes.name("ZipLatestWith14")
1987 override val shape: FanInShape14[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, O] = new FanInShape14[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, O]("ZipLatestWith14")
1988 def out: Outlet[O] = shape.out
1989 val in0: Inlet[A1] = shape.in0
1990 val in1: Inlet[A2] = shape.in1
1991 val in2: Inlet[A3] = shape.in2
1992 val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1990 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1990
Taint Flags:

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1990 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
1987  override val shape: FanInShape14[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, O] = new FanInShape14[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, O]("ZipLatestWith14")
1988  def out: Outlet[O] = shape.out
1989  val in0: Inlet[A1] = shape.in0
1990  val in1: Inlet[A2] = shape.in1
1991  val in2: Inlet[A3] = shape.in2
1992  val in3: Inlet[A4] = shape.in3
1993  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1991 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1991
Taint Flags:

```
1988  def out: Outlet[O] = shape.out
1989  val in0: Inlet[A1] = shape.in0
1990  val in1: Inlet[A2] = shape.in1
1991  val in2: Inlet[A3] = shape.in2
1992  val in3: Inlet[A4] = shape.in3
1993  val in4: Inlet[A5] = shape.in4
1994  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1992 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1992
Taint Flags:

```
1989  val in0: Inlet[A1] = shape.in0
1990  val in1: Inlet[A2] = shape.in1
1991  val in2: Inlet[A3] = shape.in2
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1992 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
1992  val in3: Inlet[A4] = shape.in3
1993  val in4: Inlet[A5] = shape.in4
1994  val in5: Inlet[A6] = shape.in5
1995  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1993 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1993
Taint Flags:

```
1990  val in1: Inlet[A2] = shape.in1
1991  val in2: Inlet[A3] = shape.in2
1992  val in3: Inlet[A4] = shape.in3
1993  val in4: Inlet[A5] = shape.in4
1994  val in5: Inlet[A6] = shape.in5
1995  val in6: Inlet[A7] = shape.in6
1996  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1994 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1994
Taint Flags:

```
1991  val in2: Inlet[A3] = shape.in2
1992  val in3: Inlet[A4] = shape.in3
1993  val in4: Inlet[A5] = shape.in4
1994  val in5: Inlet[A6] = shape.in5
1995  val in6: Inlet[A7] = shape.in6
1996  val in7: Inlet[A8] = shape.in7
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1994 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
1997  val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1995 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1995
Taint Flags:

```
1992  val in3: Inlet[A4] = shape.in3
1993  val in4: Inlet[A5] = shape.in4
1994  val in5: Inlet[A6] = shape.in5
1995  val in6: Inlet[A7] = shape.in6
1996  val in7: Inlet[A8] = shape.in7
1997  val in8: Inlet[A9] = shape.in8
1998  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1996 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1996
Taint Flags:

```
1993  val in4: Inlet[A5] = shape.in4
1994  val in5: Inlet[A6] = shape.in5
1995  val in6: Inlet[A7] = shape.in6
1996  val in7: Inlet[A8] = shape.in7
1997  val in8: Inlet[A9] = shape.in8
1998  val in9: Inlet[A10] = shape.in9
1999  val in10: Inlet[A11] = shape.in10
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1997 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1997
Taint Flags:

```
1994  val in5: Inlet[A6] = shape.in5
1995  val in6: Inlet[A7] = shape.in6
1996  val in7: Inlet[A8] = shape.in7
1997  val in8: Inlet[A9] = shape.in8
1998  val in9: Inlet[A10] = shape.in9
1999  val in10: Inlet[A11] = shape.in10
2000  val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1998 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1998
Taint Flags:

```
1995  val in6: Inlet[A7] = shape.in6
1996  val in7: Inlet[A8] = shape.in7
1997  val in8: Inlet[A9] = shape.in8
1998  val in9: Inlet[A10] = shape.in9
1999  val in10: Inlet[A11] = shape.in10
2000  val in11: Inlet[A12] = shape.in11
2001  val in12: Inlet[A13] = shape.in12
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1999 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1999 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1999
Taint Flags:

```
1996  val in7: Inlet[A8] = shape.in7
1997  val in8: Inlet[A9] = shape.in8
1998  val in9: Inlet[A10] = shape.in9
1999  val in10: Inlet[A11] = shape.in10
2000  val in11: Inlet[A12] = shape.in11
2001  val in12: Inlet[A13] = shape.in12
2002  val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2000 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2000
Taint Flags:

```
1997  val in8: Inlet[A9] = shape.in8
1998  val in9: Inlet[A10] = shape.in9
1999  val in10: Inlet[A11] = shape.in10
2000  val in11: Inlet[A12] = shape.in11
2001  val in12: Inlet[A13] = shape.in12
2002  val in13: Inlet[A14] = shape.in13
2003
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2001 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith14()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2001 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2001
Taint Flags:

```
1998  val in9: Inlet[A10] = shape.in9
1999  val in10: Inlet[A11] = shape.in10
2000  val in11: Inlet[A12] = shape.in11
2001  val in12: Inlet[A13] = shape.in12
2002  val in13: Inlet[A14] = shape.in13
2003
2004  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2002 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith14()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2002
Taint Flags:

```
1999  val in10: Inlet[A11] = shape.in10
2000  val in11: Inlet[A12] = shape.in11
2001  val in12: Inlet[A13] = shape.in12
2002  val in13: Inlet[A14] = shape.in13
2003
2004  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14) => O) = this(zipper, eagerComplete = true)
2005
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 707 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: WireTap()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:707
Taint Flags:

```
704  val outMain: Outlet[T] = Outlet[T]("WireTap.outMain")
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 707 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
705  val outTap: Outlet[T] = Outlet[T]("WireTap.outTap")
706  override def initialAttributes = DefaultAttributes.wireTap
707  override val shape: FanOutShape2[T, T, T] = new FanOutShape2(in, outMain, outTap)
708
709  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
710  private var pendingTap: Option[T] = None
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3382 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3382
Taint Flags:

```
3379  override def initialAttributes = Attributes.name("ZipLatestWith21")
3380  override val shape: FanInShape21[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, O] = new FanInShape21[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, O]("ZipLatestWith21")
3381  def out: Outlet[O] = shape.out
3382  val in0: Inlet[A1] = shape.in0
3383  val in1: Inlet[A2] = shape.in1
3384  val in2: Inlet[A3] = shape.in2
3385  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3383 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3383
Taint Flags:

```
3380  override val shape: FanInShape21[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, O] = new FanInShape21[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, O]("ZipLatestWith21")
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3383 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
3381  def out: Outlet[O] = shape.out
3382  val in0: Inlet[A1] = shape.in0
3383  val in1: Inlet[A2] = shape.in1
3384  val in2: Inlet[A3] = shape.in2
3385  val in3: Inlet[A4] = shape.in3
3386  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3384 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3384
Taint Flags:

```
3381  def out: Outlet[O] = shape.out
3382  val in0: Inlet[A1] = shape.in0
3383  val in1: Inlet[A2] = shape.in1
3384  val in2: Inlet[A3] = shape.in2
3385  val in3: Inlet[A4] = shape.in3
3386  val in4: Inlet[A5] = shape.in4
3387  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3385 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3385
Taint Flags:

```
3382  val in0: Inlet[A1] = shape.in0
3383  val in1: Inlet[A2] = shape.in1
3384  val in2: Inlet[A3] = shape.in2
3385  val in3: Inlet[A4] = shape.in3
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3385 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
3386  val in4: Inlet[A5] = shape.in4
3387  val in5: Inlet[A6] = shape.in5
3388  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3386 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3386
Taint Flags:

```
3383  val in1: Inlet[A2] = shape.in1
3384  val in2: Inlet[A3] = shape.in2
3385  val in3: Inlet[A4] = shape.in3
3386  val in4: Inlet[A5] = shape.in4
3387  val in5: Inlet[A6] = shape.in5
3388  val in6: Inlet[A7] = shape.in6
3389  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3387 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3387
Taint Flags:

```
3384  val in2: Inlet[A3] = shape.in2
3385  val in3: Inlet[A4] = shape.in3
3386  val in4: Inlet[A5] = shape.in4
3387  val in5: Inlet[A6] = shape.in5
3388  val in6: Inlet[A7] = shape.in6
3389  val in7: Inlet[A8] = shape.in7
3390  val in8: Inlet[A9] = shape.in8
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3388 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3388
Taint Flags:

```
3385 val in3: Inlet[A4] = shape.in3
3386 val in4: Inlet[A5] = shape.in4
3387 val in5: Inlet[A6] = shape.in5
3388 val in6: Inlet[A7] = shape.in6
3389 val in7: Inlet[A8] = shape.in7
3390 val in8: Inlet[A9] = shape.in8
3391 val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3389 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3389
Taint Flags:

```
3386 val in4: Inlet[A5] = shape.in4
3387 val in5: Inlet[A6] = shape.in5
3388 val in6: Inlet[A7] = shape.in6
3389 val in7: Inlet[A8] = shape.in7
3390 val in8: Inlet[A9] = shape.in8
3391 val in9: Inlet[A10] = shape.in9
3392 val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3390 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3390 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3390
Taint Flags:

```
3387  val in5: Inlet[A6] = shape.in5
3388  val in6: Inlet[A7] = shape.in6
3389  val in7: Inlet[A8] = shape.in7
3390  val in8: Inlet[A9] = shape.in8
3391  val in9: Inlet[A10] = shape.in9
3392  val in10: Inlet[A11] = shape.in10
3393  val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3391 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3391
Taint Flags:

```
3388  val in6: Inlet[A7] = shape.in6
3389  val in7: Inlet[A8] = shape.in7
3390  val in8: Inlet[A9] = shape.in8
3391  val in9: Inlet[A10] = shape.in9
3392  val in10: Inlet[A11] = shape.in10
3393  val in11: Inlet[A12] = shape.in11
3394  val in12: Inlet[A13] = shape.in12
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3392 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3392 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3392
Taint Flags:

```
3389  val in7: Inlet[A8] = shape.in7
3390  val in8: Inlet[A9] = shape.in8
3391  val in9: Inlet[A10] = shape.in9
3392  val in10: Inlet[A11] = shape.in10
3393  val in11: Inlet[A12] = shape.in11
3394  val in12: Inlet[A13] = shape.in12
3395  val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3393 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3393
Taint Flags:

```
3390  val in8: Inlet[A9] = shape.in8
3391  val in9: Inlet[A10] = shape.in9
3392  val in10: Inlet[A11] = shape.in10
3393  val in11: Inlet[A12] = shape.in11
3394  val in12: Inlet[A13] = shape.in12
3395  val in13: Inlet[A14] = shape.in13
3396  val in14: Inlet[A15] = shape.in14
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3394 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3394
Taint Flags:

```
3391  val in9: Inlet[A10] = shape.in9
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3394 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
3392  val in10: Inlet[A11] = shape.in10
3393  val in11: Inlet[A12] = shape.in11
3394  val in12: Inlet[A13] = shape.in12
3395  val in13: Inlet[A14] = shape.in13
3396  val in14: Inlet[A15] = shape.in14
3397  val in15: Inlet[A16] = shape.in15
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3395 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3395
Taint Flags:

```
3392  val in10: Inlet[A11] = shape.in10
3393  val in11: Inlet[A12] = shape.in11
3394  val in12: Inlet[A13] = shape.in12
3395  val in13: Inlet[A14] = shape.in13
3396  val in14: Inlet[A15] = shape.in14
3397  val in15: Inlet[A16] = shape.in15
3398  val in16: Inlet[A17] = shape.in16
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3396 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3396
Taint Flags:

```
3393  val in11: Inlet[A12] = shape.in11
3394  val in12: Inlet[A13] = shape.in12
3395  val in13: Inlet[A14] = shape.in13
3396  val in14: Inlet[A15] = shape.in14
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3396 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
3397  val in15: Inlet[A16] = shape.in15
3398  val in16: Inlet[A17] = shape.in16
3399  val in17: Inlet[A18] = shape.in17
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3397 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3397
Taint Flags:

```
3394  val in12: Inlet[A13] = shape.in12
3395  val in13: Inlet[A14] = shape.in13
3396  val in14: Inlet[A15] = shape.in14
3397  val in15: Inlet[A16] = shape.in15
3398  val in16: Inlet[A17] = shape.in16
3399  val in17: Inlet[A18] = shape.in17
3400  val in18: Inlet[A19] = shape.in18
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3398 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3398
Taint Flags:

```
3395  val in13: Inlet[A14] = shape.in13
3396  val in14: Inlet[A15] = shape.in14
3397  val in15: Inlet[A16] = shape.in15
3398  val in16: Inlet[A17] = shape.in16
3399  val in17: Inlet[A18] = shape.in17
3400  val in18: Inlet[A19] = shape.in18
3401  val in19: Inlet[A20] = shape.in19
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3399 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3399
Taint Flags:

```
3396 val in14: Inlet[A15] = shape.in14
3397 val in15: Inlet[A16] = shape.in15
3398 val in16: Inlet[A17] = shape.in16
3399 val in17: Inlet[A18] = shape.in17
3400 val in18: Inlet[A19] = shape.in18
3401 val in19: Inlet[A20] = shape.in19
3402 val in20: Inlet[A21] = shape.in20
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3400 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3400
Taint Flags:

```
3397 val in15: Inlet[A16] = shape.in15
3398 val in16: Inlet[A17] = shape.in16
3399 val in17: Inlet[A18] = shape.in17
3400 val in18: Inlet[A19] = shape.in18
3401 val in19: Inlet[A20] = shape.in19
3402 val in20: Inlet[A21] = shape.in20
3403
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3401 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3401 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3401
Taint Flags:

```
3398  val in16: Inlet[A17] = shape.in16
3399  val in17: Inlet[A18] = shape.in17
3400  val in18: Inlet[A19] = shape.in18
3401  val in19: Inlet[A20] = shape.in19
3402  val in20: Inlet[A21] = shape.in20
3403
3404  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21) => O) =
this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3402 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith21()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3402
Taint Flags:

```
3399  val in17: Inlet[A18] = shape.in17
3400  val in18: Inlet[A19] = shape.in18
3401  val in19: Inlet[A20] = shape.in19
3402  val in20: Inlet[A21] = shape.in20
3403
3404  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21) => O) =
this(zipper, eagerComplete = true)
3405
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 817 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 817 (Code Correctness: Constructor Invokes Overridable Function) — Low

Enclosing Method: ZipLatestWith6()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:817
Taint Flags:

```
814 override def initialAttributes = Attributes.name("ZipLatestWith6")
815 override val shape: FanInShape6[A1, A2, A3, A4, A5, A6, O] = new FanInShape6[A1, A2, A3, A4, A5, A6, O]("ZipLatestWith6")
816 def out: Outlet[O] = shape.out
817 val in0: Inlet[A1] = shape.in0
818 val in1: Inlet[A2] = shape.in1
819 val in2: Inlet[A3] = shape.in2
820 val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 818 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith6()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:818
Taint Flags:

```
815 override val shape: FanInShape6[A1, A2, A3, A4, A5, A6, O] = new FanInShape6[A1, A2, A3, A4, A5, A6, O]("ZipLatestWith6")
816 def out: Outlet[O] = shape.out
817 val in0: Inlet[A1] = shape.in0
818 val in1: Inlet[A2] = shape.in1
819 val in2: Inlet[A3] = shape.in2
820 val in3: Inlet[A4] = shape.in3
821 val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 819 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith6()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:819
Taint Flags:

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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 819 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
816 def out: Outlet[O] = shape.out
817 val in0: Inlet[A1] = shape.in0
818 val in1: Inlet[A2] = shape.in1
819 val in2: Inlet[A3] = shape.in2
820 val in3: Inlet[A4] = shape.in3
821 val in4: Inlet[A5] = shape.in4
822 val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 820 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith6()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:820
Taint Flags:

```
817 val in0: Inlet[A1] = shape.in0
818 val in1: Inlet[A2] = shape.in1
819 val in2: Inlet[A3] = shape.in2
820 val in3: Inlet[A4] = shape.in3
821 val in4: Inlet[A5] = shape.in4
822 val in5: Inlet[A6] = shape.in5
823
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 821 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith6()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:821
Taint Flags:

```
818 val in1: Inlet[A2] = shape.in1
819 val in2: Inlet[A3] = shape.in2
820 val in3: Inlet[A4] = shape.in3
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 821 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
821  val in4: Inlet[A5] = shape.in4
822  val in5: Inlet[A6] = shape.in5
823
824  def this(zipper: (A1, A2, A3, A4, A5, A6) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 822 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith6()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:822
Taint Flags:

```
819  val in2: Inlet[A3] = shape.in2
820  val in3: Inlet[A4] = shape.in3
821  val in4: Inlet[A5] = shape.in4
822  val in5: Inlet[A6] = shape.in5
823
824  def this(zipper: (A1, A2, A3, A4, A5, A6) => O) = this(zipper, eagerComplete = true)
825
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 885 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith8()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:885
Taint Flags:

```
882  override def initialAttributes = Attributes.name("ZipWith8")
883  override val shape: FanInShape8[A1, A2, A3, A4, A5, A6, A7, A8, O] = new FanInShape8[A1, A2, A3, A4, A5, A6, A7, A8, O]
("ZipWith8")
884  def out: Outlet[O] = shape.out
885  val in0: Inlet[A1] = shape.in0
886  val in1: Inlet[A2] = shape.in1
887  val in2: Inlet[A3] = shape.in2
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 885 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
888 val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 886 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith8()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:886
Taint Flags:

```
883 override val shape: FanInShape8[A1, A2, A3, A4, A5, A6, A7, A8, O] = new FanInShape8[A1, A2, A3, A4, A5, A6, A7, A8, O]
("ZipWith8")
884 def out: Outlet[O] = shape.out
885 val in0: Inlet[A1] = shape.in0
886 val in1: Inlet[A2] = shape.in1
887 val in2: Inlet[A3] = shape.in2
888 val in3: Inlet[A4] = shape.in3
889 val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 887 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith8()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:887
Taint Flags:

```
884 def out: Outlet[O] = shape.out
885 val in0: Inlet[A1] = shape.in0
886 val in1: Inlet[A2] = shape.in1
887 val in2: Inlet[A3] = shape.in2
888 val in3: Inlet[A4] = shape.in3
889 val in4: Inlet[A5] = shape.in4
890 val in5: Inlet[A6] = shape.in5
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 888 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith8()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:888
Taint Flags:

```
885 val in0: Inlet[A1] = shape.in0
886 val in1: Inlet[A2] = shape.in1
887 val in2: Inlet[A3] = shape.in2
888 val in3: Inlet[A4] = shape.in3
889 val in4: Inlet[A5] = shape.in4
890 val in5: Inlet[A6] = shape.in5
891 val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 889 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith8()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:889
Taint Flags:

```
886 val in1: Inlet[A2] = shape.in1
887 val in2: Inlet[A3] = shape.in2
888 val in3: Inlet[A4] = shape.in3
889 val in4: Inlet[A5] = shape.in4
890 val in5: Inlet[A6] = shape.in5
891 val in6: Inlet[A7] = shape.in6
892 val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 890 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 890 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith8()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:890
Taint Flags:

```
887 val in2: Inlet[A3] = shape.in2
888 val in3: Inlet[A4] = shape.in3
889 val in4: Inlet[A5] = shape.in4
890 val in5: Inlet[A6] = shape.in5
891 val in6: Inlet[A7] = shape.in6
892 val in7: Inlet[A8] = shape.in7
893
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 891 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith8()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:891
Taint Flags:

```
888 val in3: Inlet[A4] = shape.in3
889 val in4: Inlet[A5] = shape.in4
890 val in5: Inlet[A6] = shape.in5
891 val in6: Inlet[A7] = shape.in6
892 val in7: Inlet[A8] = shape.in7
893
894 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 892 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith8()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 892 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:892
Taint Flags:

```
889 val in4: Inlet[A5] = shape.in4
890 val in5: Inlet[A6] = shape.in5
891 val in6: Inlet[A7] = shape.in6
892 val in7: Inlet[A8] = shape.in7
893
894 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
895 var pending = 0
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 1391 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: secondary
Enclosing Method: OrElse()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:1391
Taint Flags:

```
1388 val secondary = Inlet[T]("OrElse.secondary")
1389 val out = Outlet[T]("OrElse.out")
1390
1391 override val shape: UniformFanInShape[T, T] = UniformFanInShape(out, primary, secondary)
1392
1393 override protected def initialAttributes: Attributes = DefaultAttributes.orElse
1394
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 594 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith4()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:594
Taint Flags:

```
591 override def initialAttributes = Attributes.name("ZipLatestWith4")
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 594 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
592 override val shape: FanInShape4[A1, A2, A3, A4, O] = new FanInShape4[A1, A2, A3, A4, O]("ZipLatestWith4")
593 def out: Outlet[O] = shape.out
594 val in0: Inlet[A1] = shape.in0
595 val in1: Inlet[A2] = shape.in1
596 val in2: Inlet[A3] = shape.in2
597 val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 595 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith4()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:595
Taint Flags:

```
592 override val shape: FanInShape4[A1, A2, A3, A4, O] = new FanInShape4[A1, A2, A3, A4, O]("ZipLatestWith4")
593 def out: Outlet[O] = shape.out
594 val in0: Inlet[A1] = shape.in0
595 val in1: Inlet[A2] = shape.in1
596 val in2: Inlet[A3] = shape.in2
597 val in3: Inlet[A4] = shape.in3
598
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 596 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith4()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:596
Taint Flags:

```
593 def out: Outlet[O] = shape.out
594 val in0: Inlet[A1] = shape.in0
595 val in1: Inlet[A2] = shape.in1
596 val in2: Inlet[A3] = shape.in2
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 596 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
597  val in3: Inlet[A4] = shape.in3
598
599  def this(zipper: (A1, A2, A3, A4) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 597 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith4()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:597
Taint Flags:

```
594  val in0: Inlet[A1] = shape.in0
595  val in1: Inlet[A2] = shape.in1
596  val in2: Inlet[A3] = shape.in2
597  val in3: Inlet[A4] = shape.in3
598
599  def this(zipper: (A1, A2, A3, A4) => O) = this(zipper, eagerComplete = true)
600
```

src/main/scala/akka/stream/scaladsl/Source.scala, line 454 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: fromGraph
Enclosing Method: Source()
File: src/main/scala/akka/stream/scaladsl/Source.scala:454
Taint Flags:

```
451  * A `Source` with no elements, i.e. an empty stream that is completed immediately for every connected `Sink`.
452  */
453  def empty[T]: Source[T, NotUsed] = _empty
454  private[this] val _empty: Source[Nothing, NotUsed] =
455  Source.fromGraph(EmptySource)
456
457  /**
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3045 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3045
Taint Flags:

```
3042  override def initialAttributes = Attributes.name("ZipWith17")
3043  override val shape: FanInShape17[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, O] = new FanInShape17[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, O]("ZipWith17")
3044  def out: Outlet[O] = shape.out
3045  val in0: Inlet[A1] = shape.in0
3046  val in1: Inlet[A2] = shape.in1
3047  val in2: Inlet[A3] = shape.in2
3048  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3046 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3046
Taint Flags:

```
3043  override val shape: FanInShape17[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, O] = new FanInShape17[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, O]("ZipWith17")
3044  def out: Outlet[O] = shape.out
3045  val in0: Inlet[A1] = shape.in0
3046  val in1: Inlet[A2] = shape.in1
3047  val in2: Inlet[A3] = shape.in2
3048  val in3: Inlet[A4] = shape.in3
3049  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3047 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3047 (Code Correctness: Constructor Invokes Overridable Function) — Low

Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3047
Taint Flags:

```
3044  def out: Outlet[O] = shape.out
3045  val in0: Inlet[A1] = shape.in0
3046  val in1: Inlet[A2] = shape.in1
3047  val in2: Inlet[A3] = shape.in2
3048  val in3: Inlet[A4] = shape.in3
3049  val in4: Inlet[A5] = shape.in4
3050  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3048 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3048
Taint Flags:

```
3045  val in0: Inlet[A1] = shape.in0
3046  val in1: Inlet[A2] = shape.in1
3047  val in2: Inlet[A3] = shape.in2
3048  val in3: Inlet[A4] = shape.in3
3049  val in4: Inlet[A5] = shape.in4
3050  val in5: Inlet[A6] = shape.in5
3051  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3049 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3049 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3049
Taint Flags:

```
3046  val in1: Inlet[A2] = shape.in1
3047  val in2: Inlet[A3] = shape.in2
3048  val in3: Inlet[A4] = shape.in3
3049  val in4: Inlet[A5] = shape.in4
3050  val in5: Inlet[A6] = shape.in5
3051  val in6: Inlet[A7] = shape.in6
3052  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3050 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3050
Taint Flags:

```
3047  val in2: Inlet[A3] = shape.in2
3048  val in3: Inlet[A4] = shape.in3
3049  val in4: Inlet[A5] = shape.in4
3050  val in5: Inlet[A6] = shape.in5
3051  val in6: Inlet[A7] = shape.in6
3052  val in7: Inlet[A8] = shape.in7
3053  val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3051 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3051
Taint Flags:

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3051 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
3048  val in3: Inlet[A4] = shape.in3
3049  val in4: Inlet[A5] = shape.in4
3050  val in5: Inlet[A6] = shape.in5
3051  val in6: Inlet[A7] = shape.in6
3052  val in7: Inlet[A8] = shape.in7
3053  val in8: Inlet[A9] = shape.in8
3054  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3052 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3052
Taint Flags:

```
3049  val in4: Inlet[A5] = shape.in4
3050  val in5: Inlet[A6] = shape.in5
3051  val in6: Inlet[A7] = shape.in6
3052  val in7: Inlet[A8] = shape.in7
3053  val in8: Inlet[A9] = shape.in8
3054  val in9: Inlet[A10] = shape.in9
3055  val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3053 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3053
Taint Flags:

```
3050  val in5: Inlet[A6] = shape.in5
3051  val in6: Inlet[A7] = shape.in6
3052  val in7: Inlet[A8] = shape.in7
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3053 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
3053  val in8: Inlet[A9] = shape.in8
3054  val in9: Inlet[A10] = shape.in9
3055  val in10: Inlet[A11] = shape.in10
3056  val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3054 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3054
Taint Flags:

```
3051  val in6: Inlet[A7] = shape.in6
3052  val in7: Inlet[A8] = shape.in7
3053  val in8: Inlet[A9] = shape.in8
3054  val in9: Inlet[A10] = shape.in9
3055  val in10: Inlet[A11] = shape.in10
3056  val in11: Inlet[A12] = shape.in11
3057  val in12: Inlet[A13] = shape.in12
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3055 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3055
Taint Flags:

```
3052  val in7: Inlet[A8] = shape.in7
3053  val in8: Inlet[A9] = shape.in8
3054  val in9: Inlet[A10] = shape.in9
3055  val in10: Inlet[A11] = shape.in10
3056  val in11: Inlet[A12] = shape.in11
3057  val in12: Inlet[A13] = shape.in12
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3055 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
3058  val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3056 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3056
Taint Flags:

```
3053  val in8: Inlet[A9] = shape.in8
3054  val in9: Inlet[A10] = shape.in9
3055  val in10: Inlet[A11] = shape.in10
3056  val in11: Inlet[A12] = shape.in11
3057  val in12: Inlet[A13] = shape.in12
3058  val in13: Inlet[A14] = shape.in13
3059  val in14: Inlet[A15] = shape.in14
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3057 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3057
Taint Flags:

```
3054  val in9: Inlet[A10] = shape.in9
3055  val in10: Inlet[A11] = shape.in10
3056  val in11: Inlet[A12] = shape.in11
3057  val in12: Inlet[A13] = shape.in12
3058  val in13: Inlet[A14] = shape.in13
3059  val in14: Inlet[A15] = shape.in14
3060  val in15: Inlet[A16] = shape.in15
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3058 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3058
Taint Flags:

```
3055  val in10: Inlet[A11] = shape.in10
3056  val in11: Inlet[A12] = shape.in11
3057  val in12: Inlet[A13] = shape.in12
3058  val in13: Inlet[A14] = shape.in13
3059  val in14: Inlet[A15] = shape.in14
3060  val in15: Inlet[A16] = shape.in15
3061  val in16: Inlet[A17] = shape.in16
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3059 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3059
Taint Flags:

```
3056  val in11: Inlet[A12] = shape.in11
3057  val in12: Inlet[A13] = shape.in12
3058  val in13: Inlet[A14] = shape.in13
3059  val in14: Inlet[A15] = shape.in14
3060  val in15: Inlet[A16] = shape.in15
3061  val in16: Inlet[A17] = shape.in16
3062
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3060 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3060 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3060
Taint Flags:

```
3057  val in12: Inlet[A13] = shape.in12
3058  val in13: Inlet[A14] = shape.in13
3059  val in14: Inlet[A15] = shape.in14
3060  val in15: Inlet[A16] = shape.in15
3061  val in16: Inlet[A17] = shape.in16
3062
3063  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3061 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3061
Taint Flags:

```
3058  val in13: Inlet[A14] = shape.in13
3059  val in14: Inlet[A15] = shape.in14
3060  val in15: Inlet[A16] = shape.in15
3061  val in16: Inlet[A17] = shape.in16
3062
3063  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
3064  var pending = 0
```

src/main/scala/akka/stream/scaladsl/CoupledTerminationFlow.scala, line 74 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in2
Enclosing Method: CoupledTerminationBidi()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/CoupledTerminationFlow.scala, line 74 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/scaladsl/CoupledTerminationFlow.scala:74
Taint Flags:

```
71 val out1: Outlet[I] = Outlet("CoupledCompletion.out1")
72 val in2: Inlet[O] = Inlet("CoupledCompletion.in2")
73 val out2: Outlet[O] = Outlet("CoupledCompletion.out2")
74 override val shape: BidiShape[I, I, O, O] = BidiShape(in1, out1, in2, out2)
75
76 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
77
```

src/main/scala/akka/stream/scaladsl/CoupledTerminationFlow.scala, line 74 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out2
Enclosing Method: CoupledTerminationBidi()
File: src/main/scala/akka/stream/scaladsl/CoupledTerminationFlow.scala:74
Taint Flags:

```
71 val out1: Outlet[I] = Outlet("CoupledCompletion.out1")
72 val in2: Inlet[O] = Inlet("CoupledCompletion.in2")
73 val out2: Outlet[O] = Outlet("CoupledCompletion.out2")
74 override val shape: BidiShape[I, I, O, O] = BidiShape(in1, out1, in2, out2)
75
76 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
77
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 96 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: Merge()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:96
Taint Flags:

```
93 val in: immutable.IndexedSeq[Inlet[T]] = Vector.tabulate(inputPorts)(i => Inlet[T]("Merge.in" + i))
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 96 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
94  val out: Outlet[T] = Outlet[T]("Merge.out")
95  override def initialAttributes = DefaultAttributes.merge
96  override val shape: UniformFanInShape[T, T] = UniformFanInShape(out, in: _*)
97
98  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
99  new GraphStageLogic(shape) with OutHandler {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3609 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3609
Taint Flags:

```
3606  override def initialAttributes = Attributes.name("ZipLatestWith22")
3607  override val shape: FanInShape22[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, O] = new FanInShape22[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, O]("ZipLatestWith22")
3608  def out: Outlet[O] = shape.out
3609  val in0: Inlet[A1] = shape.in0
3610  val in1: Inlet[A2] = shape.in1
3611  val in2: Inlet[A3] = shape.in2
3612  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3610 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3610
Taint Flags:

```
3607  override val shape: FanInShape22[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, O] = new FanInShape22[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, O]("ZipLatestWith22")
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3610 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
3608  def out: Outlet[O] = shape.out
3609  val in0: Inlet[A1] = shape.in0
3610  val in1: Inlet[A2] = shape.in1
3611  val in2: Inlet[A3] = shape.in2
3612  val in3: Inlet[A4] = shape.in3
3613  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3611 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3611
Taint Flags:

```
3608  def out: Outlet[O] = shape.out
3609  val in0: Inlet[A1] = shape.in0
3610  val in1: Inlet[A2] = shape.in1
3611  val in2: Inlet[A3] = shape.in2
3612  val in3: Inlet[A4] = shape.in3
3613  val in4: Inlet[A5] = shape.in4
3614  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3612 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3612
Taint Flags:

```
3609  val in0: Inlet[A1] = shape.in0
3610  val in1: Inlet[A2] = shape.in1
3611  val in2: Inlet[A3] = shape.in2
3612  val in3: Inlet[A4] = shape.in3
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3612 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
3613  val in4: Inlet[A5] = shape.in4
3614  val in5: Inlet[A6] = shape.in5
3615  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3613 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3613
Taint Flags:

```
3610  val in1: Inlet[A2] = shape.in1
3611  val in2: Inlet[A3] = shape.in2
3612  val in3: Inlet[A4] = shape.in3
3613  val in4: Inlet[A5] = shape.in4
3614  val in5: Inlet[A6] = shape.in5
3615  val in6: Inlet[A7] = shape.in6
3616  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3614 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3614
Taint Flags:

```
3611  val in2: Inlet[A3] = shape.in2
3612  val in3: Inlet[A4] = shape.in3
3613  val in4: Inlet[A5] = shape.in4
3614  val in5: Inlet[A6] = shape.in5
3615  val in6: Inlet[A7] = shape.in6
3616  val in7: Inlet[A8] = shape.in7
3617  val in8: Inlet[A9] = shape.in8
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3615 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3615
Taint Flags:

```
3612  val in3: Inlet[A4] = shape.in3
3613  val in4: Inlet[A5] = shape.in4
3614  val in5: Inlet[A6] = shape.in5
3615  val in6: Inlet[A7] = shape.in6
3616  val in7: Inlet[A8] = shape.in7
3617  val in8: Inlet[A9] = shape.in8
3618  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3616 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3616
Taint Flags:

```
3613  val in4: Inlet[A5] = shape.in4
3614  val in5: Inlet[A6] = shape.in5
3615  val in6: Inlet[A7] = shape.in6
3616  val in7: Inlet[A8] = shape.in7
3617  val in8: Inlet[A9] = shape.in8
3618  val in9: Inlet[A10] = shape.in9
3619  val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3617 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3617 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3617
Taint Flags:

```
3614 val in5: Inlet[A6] = shape.in5
3615 val in6: Inlet[A7] = shape.in6
3616 val in7: Inlet[A8] = shape.in7
3617 val in8: Inlet[A9] = shape.in8
3618 val in9: Inlet[A10] = shape.in9
3619 val in10: Inlet[A11] = shape.in10
3620 val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3618 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3618
Taint Flags:

```
3615 val in6: Inlet[A7] = shape.in6
3616 val in7: Inlet[A8] = shape.in7
3617 val in8: Inlet[A9] = shape.in8
3618 val in9: Inlet[A10] = shape.in9
3619 val in10: Inlet[A11] = shape.in10
3620 val in11: Inlet[A12] = shape.in11
3621 val in12: Inlet[A13] = shape.in12
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3619 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3619 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3619
Taint Flags:

```
3616  val in7: Inlet[A8] = shape.in7
3617  val in8: Inlet[A9] = shape.in8
3618  val in9: Inlet[A10] = shape.in9
3619  val in10: Inlet[A11] = shape.in10
3620  val in11: Inlet[A12] = shape.in11
3621  val in12: Inlet[A13] = shape.in12
3622  val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3620 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3620
Taint Flags:

```
3617  val in8: Inlet[A9] = shape.in8
3618  val in9: Inlet[A10] = shape.in9
3619  val in10: Inlet[A11] = shape.in10
3620  val in11: Inlet[A12] = shape.in11
3621  val in12: Inlet[A13] = shape.in12
3622  val in13: Inlet[A14] = shape.in13
3623  val in14: Inlet[A15] = shape.in14
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3621 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3621
Taint Flags:

```
3618  val in9: Inlet[A10] = shape.in9
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3621 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
3619  val in10: Inlet[A11] = shape.in10
3620  val in11: Inlet[A12] = shape.in11
3621  val in12: Inlet[A13] = shape.in12
3622  val in13: Inlet[A14] = shape.in13
3623  val in14: Inlet[A15] = shape.in14
3624  val in15: Inlet[A16] = shape.in15
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3622 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3622
Taint Flags:

```
3619  val in10: Inlet[A11] = shape.in10
3620  val in11: Inlet[A12] = shape.in11
3621  val in12: Inlet[A13] = shape.in12
3622  val in13: Inlet[A14] = shape.in13
3623  val in14: Inlet[A15] = shape.in14
3624  val in15: Inlet[A16] = shape.in15
3625  val in16: Inlet[A17] = shape.in16
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3623 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3623
Taint Flags:

```
3620  val in11: Inlet[A12] = shape.in11
3621  val in12: Inlet[A13] = shape.in12
3622  val in13: Inlet[A14] = shape.in13
3623  val in14: Inlet[A15] = shape.in14
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3623 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
3624  val in15: Inlet[A16] = shape.in15
3625  val in16: Inlet[A17] = shape.in16
3626  val in17: Inlet[A18] = shape.in17
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3624 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3624
Taint Flags:

```
3621  val in12: Inlet[A13] = shape.in12
3622  val in13: Inlet[A14] = shape.in13
3623  val in14: Inlet[A15] = shape.in14
3624  val in15: Inlet[A16] = shape.in15
3625  val in16: Inlet[A17] = shape.in16
3626  val in17: Inlet[A18] = shape.in17
3627  val in18: Inlet[A19] = shape.in18
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3625 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3625
Taint Flags:

```
3622  val in13: Inlet[A14] = shape.in13
3623  val in14: Inlet[A15] = shape.in14
3624  val in15: Inlet[A16] = shape.in15
3625  val in16: Inlet[A17] = shape.in16
3626  val in17: Inlet[A18] = shape.in17
3627  val in18: Inlet[A19] = shape.in18
3628  val in19: Inlet[A20] = shape.in19
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3626 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3626
Taint Flags:

```
3623  val in14: Inlet[A15] = shape.in14
3624  val in15: Inlet[A16] = shape.in15
3625  val in16: Inlet[A17] = shape.in16
3626  val in17: Inlet[A18] = shape.in17
3627  val in18: Inlet[A19] = shape.in18
3628  val in19: Inlet[A20] = shape.in19
3629  val in20: Inlet[A21] = shape.in20
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3627 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3627
Taint Flags:

```
3624  val in15: Inlet[A16] = shape.in15
3625  val in16: Inlet[A17] = shape.in16
3626  val in17: Inlet[A18] = shape.in17
3627  val in18: Inlet[A19] = shape.in18
3628  val in19: Inlet[A20] = shape.in19
3629  val in20: Inlet[A21] = shape.in20
3630  val in21: Inlet[A22] = shape.in21
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3628 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3628 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3628
Taint Flags:

```
3625  val in16: Inlet[A17] = shape.in16
3626  val in17: Inlet[A18] = shape.in17
3627  val in18: Inlet[A19] = shape.in18
3628  val in19: Inlet[A20] = shape.in19
3629  val in20: Inlet[A21] = shape.in20
3630  val in21: Inlet[A22] = shape.in21
3631
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3629 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3629
Taint Flags:

```
3626  val in17: Inlet[A18] = shape.in17
3627  val in18: Inlet[A19] = shape.in18
3628  val in19: Inlet[A20] = shape.in19
3629  val in20: Inlet[A21] = shape.in20
3630  val in21: Inlet[A22] = shape.in21
3631
3632  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22) => O) =
this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3630 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3630 (Code Correctness: Constructor Invokes Overridable Function) — Low

Enclosing Method: ZipLatestWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3630
Taint Flags:

```
3627  val in18: Inlet[A19] = shape.in18
3628  val in19: Inlet[A20] = shape.in19
3629  val in20: Inlet[A21] = shape.in20
3630  val in21: Inlet[A22] = shape.in21
3631
3632  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22) => O) = this(zipper, eagerComplete = true)
3633
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 942 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: Balance()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:942
Taint Flags:

```
939  val in: Inlet[T] = Inlet[T]("Balance.in")
940  val out: immutable.IndexedSeq[Outlet[T]] = Vector.tabulate(outputPorts)(i => Outlet[T]("Balance.out" + i))
941  override def initialAttributes = DefaultAttributes.balance
942  override val shape: UniformFanOutShape[T, T] = UniformFanOutShape[T, T](in, out: _*)
943
944  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
945  new GraphStageLogic(shape) with InHandler {
```

src/main/scala/akka/stream/scaladsl/Source.scala, line 509 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: withAttributes
Enclosing Method: Source()
File: src/main/scala/akka/stream/scaladsl/Source.scala:509
Taint Flags:

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Source.scala, line 509 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
506  * This stream could be useful in tests.
507  */
508  def never[T]: Source[T, NotUsed] = _never
509  private[this] val _never: Source[Nothing, NotUsed] =
510  future(Future.never).withAttributes(DefaultAttributes.neverSource)
511
512  /**
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1915 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1915
Taint Flags:

```
1912  override def initialAttributes = Attributes.name("ZipWith13")
1913  override val shape: FanInShape13[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, O] = new FanInShape13[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, O]("ZipWith13")
1914  def out: Outlet[O] = shape.out
1915  val in0: Inlet[A1] = shape.in0
1916  val in1: Inlet[A2] = shape.in1
1917  val in2: Inlet[A3] = shape.in2
1918  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1916 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1916
Taint Flags:

```
1913  override val shape: FanInShape13[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, O] = new FanInShape13[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, O]("ZipWith13")
1914  def out: Outlet[O] = shape.out
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1916 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
1915  val in0: Inlet[A1] = shape.in0
1916  val in1: Inlet[A2] = shape.in1
1917  val in2: Inlet[A3] = shape.in2
1918  val in3: Inlet[A4] = shape.in3
1919  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1917 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1917
Taint Flags:

```
1914  def out: Outlet[O] = shape.out
1915  val in0: Inlet[A1] = shape.in0
1916  val in1: Inlet[A2] = shape.in1
1917  val in2: Inlet[A3] = shape.in2
1918  val in3: Inlet[A4] = shape.in3
1919  val in4: Inlet[A5] = shape.in4
1920  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1918 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1918
Taint Flags:

```
1915  val in0: Inlet[A1] = shape.in0
1916  val in1: Inlet[A2] = shape.in1
1917  val in2: Inlet[A3] = shape.in2
1918  val in3: Inlet[A4] = shape.in3
1919  val in4: Inlet[A5] = shape.in4
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1918 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
1920  val in5: Inlet[A6] = shape.in5
1921  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1919 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1919
Taint Flags:

```
1916  val in1: Inlet[A2] = shape.in1
1917  val in2: Inlet[A3] = shape.in2
1918  val in3: Inlet[A4] = shape.in3
1919  val in4: Inlet[A5] = shape.in4
1920  val in5: Inlet[A6] = shape.in5
1921  val in6: Inlet[A7] = shape.in6
1922  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1920 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1920
Taint Flags:

```
1917  val in2: Inlet[A3] = shape.in2
1918  val in3: Inlet[A4] = shape.in3
1919  val in4: Inlet[A5] = shape.in4
1920  val in5: Inlet[A6] = shape.in5
1921  val in6: Inlet[A7] = shape.in6
1922  val in7: Inlet[A8] = shape.in7
1923  val in8: Inlet[A9] = shape.in8
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1921 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1921
Taint Flags:

```
1918 val in3: Inlet[A4] = shape.in3
1919 val in4: Inlet[A5] = shape.in4
1920 val in5: Inlet[A6] = shape.in5
1921 val in6: Inlet[A7] = shape.in6
1922 val in7: Inlet[A8] = shape.in7
1923 val in8: Inlet[A9] = shape.in8
1924 val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1922 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1922
Taint Flags:

```
1919 val in4: Inlet[A5] = shape.in4
1920 val in5: Inlet[A6] = shape.in5
1921 val in6: Inlet[A7] = shape.in6
1922 val in7: Inlet[A8] = shape.in7
1923 val in8: Inlet[A9] = shape.in8
1924 val in9: Inlet[A10] = shape.in9
1925 val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1923 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1923 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1923
Taint Flags:

```
1920 val in5: Inlet[A6] = shape.in5
1921 val in6: Inlet[A7] = shape.in6
1922 val in7: Inlet[A8] = shape.in7
1923 val in8: Inlet[A9] = shape.in8
1924 val in9: Inlet[A10] = shape.in9
1925 val in10: Inlet[A11] = shape.in10
1926 val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1924 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1924
Taint Flags:

```
1921 val in6: Inlet[A7] = shape.in6
1922 val in7: Inlet[A8] = shape.in7
1923 val in8: Inlet[A9] = shape.in8
1924 val in9: Inlet[A10] = shape.in9
1925 val in10: Inlet[A11] = shape.in10
1926 val in11: Inlet[A12] = shape.in11
1927 val in12: Inlet[A13] = shape.in12
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1925 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith13()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1925 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1925
Taint Flags:

```
1922  val in7: Inlet[A8] = shape.in7
1923  val in8: Inlet[A9] = shape.in8
1924  val in9: Inlet[A10] = shape.in9
1925  val in10: Inlet[A11] = shape.in10
1926  val in11: Inlet[A12] = shape.in11
1927  val in12: Inlet[A13] = shape.in12
1928
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1926 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1926
Taint Flags:

```
1923  val in8: Inlet[A9] = shape.in8
1924  val in9: Inlet[A10] = shape.in9
1925  val in10: Inlet[A11] = shape.in10
1926  val in11: Inlet[A12] = shape.in11
1927  val in12: Inlet[A13] = shape.in12
1928
1929  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1927 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1927
Taint Flags:

```
1924  val in9: Inlet[A10] = shape.in9
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1927 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
1925  val in10: Inlet[A11] = shape.in10
1926  val in11: Inlet[A12] = shape.in11
1927  val in12: Inlet[A13] = shape.in12
1928
1929  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
1930  var pending = 0
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 1318 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: Concat()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:1318
Taint Flags:

```
1315  val in: immutable.IndexedSeq[Inlet[T]] = Vector.tabulate(inputPorts)(i => Inlet[T]("Concat.in" + i))
1316  val out: Outlet[T] = Outlet[T]("Concat.out")
1317  override def initialAttributes = DefaultAttributes.concat
1318  override val shape: UniformFanInShape[T, T] = UniformFanInShape(out, in: _*)
1319
1320  override def createLogic(inheritedAttributes: Attributes) = new GraphStageLogic(shape) with OutHandler {
1321  var activeStream: Int = 0
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4840 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4840
Taint Flags:

```
4837  override def initialAttributes = Attributes.name("ZipWith22")
4838  override val shape: FanInShape22[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, O] = new FanInShape22[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, O]("ZipWith22")
4839  def out: Outlet[O] = shape.out
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4840 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
4840  val in0: Inlet[A1] = shape.in0
4841  val in1: Inlet[A2] = shape.in1
4842  val in2: Inlet[A3] = shape.in2
4843  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4841 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4841
Taint Flags:

```
4838  override val shape: FanInShape22[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, O] = new FanInShape22[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, O]("ZipWith22")
4839  def out: Outlet[O] = shape.out
4840  val in0: Inlet[A1] = shape.in0
4841  val in1: Inlet[A2] = shape.in1
4842  val in2: Inlet[A3] = shape.in2
4843  val in3: Inlet[A4] = shape.in3
4844  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4842 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4842
Taint Flags:

```
4839  def out: Outlet[O] = shape.out
4840  val in0: Inlet[A1] = shape.in0
4841  val in1: Inlet[A2] = shape.in1
4842  val in2: Inlet[A3] = shape.in2
4843  val in3: Inlet[A4] = shape.in3
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4842 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
4844  val in4: Inlet[A5] = shape.in4
4845  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4843 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4843
Taint Flags:

```
4840  val in0: Inlet[A1] = shape.in0
4841  val in1: Inlet[A2] = shape.in1
4842  val in2: Inlet[A3] = shape.in2
4843  val in3: Inlet[A4] = shape.in3
4844  val in4: Inlet[A5] = shape.in4
4845  val in5: Inlet[A6] = shape.in5
4846  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4844 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4844
Taint Flags:

```
4841  val in1: Inlet[A2] = shape.in1
4842  val in2: Inlet[A3] = shape.in2
4843  val in3: Inlet[A4] = shape.in3
4844  val in4: Inlet[A5] = shape.in4
4845  val in5: Inlet[A6] = shape.in5
4846  val in6: Inlet[A7] = shape.in6
4847  val in7: Inlet[A8] = shape.in7
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4845 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4845
Taint Flags:

```
4842 val in2: Inlet[A3] = shape.in2
4843 val in3: Inlet[A4] = shape.in3
4844 val in4: Inlet[A5] = shape.in4
4845 val in5: Inlet[A6] = shape.in5
4846 val in6: Inlet[A7] = shape.in6
4847 val in7: Inlet[A8] = shape.in7
4848 val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4846 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4846
Taint Flags:

```
4843 val in3: Inlet[A4] = shape.in3
4844 val in4: Inlet[A5] = shape.in4
4845 val in5: Inlet[A6] = shape.in5
4846 val in6: Inlet[A7] = shape.in6
4847 val in7: Inlet[A8] = shape.in7
4848 val in8: Inlet[A9] = shape.in8
4849 val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4847 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4847 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4847
Taint Flags:

```
4844 val in4: Inlet[A5] = shape.in4
4845 val in5: Inlet[A6] = shape.in5
4846 val in6: Inlet[A7] = shape.in6
4847 val in7: Inlet[A8] = shape.in7
4848 val in8: Inlet[A9] = shape.in8
4849 val in9: Inlet[A10] = shape.in9
4850 val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4848 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4848
Taint Flags:

```
4845 val in5: Inlet[A6] = shape.in5
4846 val in6: Inlet[A7] = shape.in6
4847 val in7: Inlet[A8] = shape.in7
4848 val in8: Inlet[A9] = shape.in8
4849 val in9: Inlet[A10] = shape.in9
4850 val in10: Inlet[A11] = shape.in10
4851 val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4849 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4849 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4849
Taint Flags:

```
4846 val in6: Inlet[A7] = shape.in6
4847 val in7: Inlet[A8] = shape.in7
4848 val in8: Inlet[A9] = shape.in8
4849 val in9: Inlet[A10] = shape.in9
4850 val in10: Inlet[A11] = shape.in10
4851 val in11: Inlet[A12] = shape.in11
4852 val in12: Inlet[A13] = shape.in12
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4850 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4850
Taint Flags:

```
4847 val in7: Inlet[A8] = shape.in7
4848 val in8: Inlet[A9] = shape.in8
4849 val in9: Inlet[A10] = shape.in9
4850 val in10: Inlet[A11] = shape.in10
4851 val in11: Inlet[A12] = shape.in11
4852 val in12: Inlet[A13] = shape.in12
4853 val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4851 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4851
Taint Flags:

```
4848 val in8: Inlet[A9] = shape.in8
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4851 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
4849  val in9: Inlet[A10] = shape.in9
4850  val in10: Inlet[A11] = shape.in10
4851  val in11: Inlet[A12] = shape.in11
4852  val in12: Inlet[A13] = shape.in12
4853  val in13: Inlet[A14] = shape.in13
4854  val in14: Inlet[A15] = shape.in14
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4852 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4852
Taint Flags:

```
4849  val in9: Inlet[A10] = shape.in9
4850  val in10: Inlet[A11] = shape.in10
4851  val in11: Inlet[A12] = shape.in11
4852  val in12: Inlet[A13] = shape.in12
4853  val in13: Inlet[A14] = shape.in13
4854  val in14: Inlet[A15] = shape.in14
4855  val in15: Inlet[A16] = shape.in15
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4853 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4853
Taint Flags:

```
4850  val in10: Inlet[A11] = shape.in10
4851  val in11: Inlet[A12] = shape.in11
4852  val in12: Inlet[A13] = shape.in12
4853  val in13: Inlet[A14] = shape.in13
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4853 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
4854  val in14: Inlet[A15] = shape.in14
4855  val in15: Inlet[A16] = shape.in15
4856  val in16: Inlet[A17] = shape.in16
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4854 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4854
Taint Flags:

```
4851  val in11: Inlet[A12] = shape.in11
4852  val in12: Inlet[A13] = shape.in12
4853  val in13: Inlet[A14] = shape.in13
4854  val in14: Inlet[A15] = shape.in14
4855  val in15: Inlet[A16] = shape.in15
4856  val in16: Inlet[A17] = shape.in16
4857  val in17: Inlet[A18] = shape.in17
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4855 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4855
Taint Flags:

```
4852  val in12: Inlet[A13] = shape.in12
4853  val in13: Inlet[A14] = shape.in13
4854  val in14: Inlet[A15] = shape.in14
4855  val in15: Inlet[A16] = shape.in15
4856  val in16: Inlet[A17] = shape.in16
4857  val in17: Inlet[A18] = shape.in17
4858  val in18: Inlet[A19] = shape.in18
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4856 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4856
Taint Flags:

```
4853 val in13: Inlet[A14] = shape.in13
4854 val in14: Inlet[A15] = shape.in14
4855 val in15: Inlet[A16] = shape.in15
4856 val in16: Inlet[A17] = shape.in16
4857 val in17: Inlet[A18] = shape.in17
4858 val in18: Inlet[A19] = shape.in18
4859 val in19: Inlet[A20] = shape.in19
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4857 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4857
Taint Flags:

```
4854 val in14: Inlet[A15] = shape.in14
4855 val in15: Inlet[A16] = shape.in15
4856 val in16: Inlet[A17] = shape.in16
4857 val in17: Inlet[A18] = shape.in17
4858 val in18: Inlet[A19] = shape.in18
4859 val in19: Inlet[A20] = shape.in19
4860 val in20: Inlet[A21] = shape.in20
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4858 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4858 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4858
Taint Flags:

```
4855 val in15: Inlet[A16] = shape.in15
4856 val in16: Inlet[A17] = shape.in16
4857 val in17: Inlet[A18] = shape.in17
4858 val in18: Inlet[A19] = shape.in18
4859 val in19: Inlet[A20] = shape.in19
4860 val in20: Inlet[A21] = shape.in20
4861 val in21: Inlet[A22] = shape.in21
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4859 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4859
Taint Flags:

```
4856 val in16: Inlet[A17] = shape.in16
4857 val in17: Inlet[A18] = shape.in17
4858 val in18: Inlet[A19] = shape.in18
4859 val in19: Inlet[A20] = shape.in19
4860 val in20: Inlet[A21] = shape.in20
4861 val in21: Inlet[A22] = shape.in21
4862
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4860 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4860 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4860
Taint Flags:

```
4857  val in17: Inlet[A18] = shape.in17
4858  val in18: Inlet[A19] = shape.in18
4859  val in19: Inlet[A20] = shape.in19
4860  val in20: Inlet[A21] = shape.in20
4861  val in21: Inlet[A22] = shape.in21
4862
4863  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 4861 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith22()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:4861
Taint Flags:

```
4858  val in18: Inlet[A19] = shape.in18
4859  val in19: Inlet[A20] = shape.in19
4860  val in20: Inlet[A21] = shape.in20
4861  val in21: Inlet[A22] = shape.in21
4862
4863  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
4864  var pending = 0
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2737 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2737
Taint Flags:

```
2734  override def initialAttributes = Attributes.name("ZipWith16")
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2737 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
2735  override val shape: FanInShape16[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, O] = new FanInShape16[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, O]("ZipWith16")
2736  def out: Outlet[O] = shape.out
2737  val in0: Inlet[A1] = shape.in0
2738  val in1: Inlet[A2] = shape.in1
2739  val in2: Inlet[A3] = shape.in2
2740  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2738 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2738
Taint Flags:

```
2735  override val shape: FanInShape16[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, O] = new FanInShape16[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, O]("ZipWith16")
2736  def out: Outlet[O] = shape.out
2737  val in0: Inlet[A1] = shape.in0
2738  val in1: Inlet[A2] = shape.in1
2739  val in2: Inlet[A3] = shape.in2
2740  val in3: Inlet[A4] = shape.in3
2741  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2739 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2739
Taint Flags:

```
2736  def out: Outlet[O] = shape.out
2737  val in0: Inlet[A1] = shape.in0
2738  val in1: Inlet[A2] = shape.in1
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2739 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
2739  val in2: Inlet[A3] = shape.in2
2740  val in3: Inlet[A4] = shape.in3
2741  val in4: Inlet[A5] = shape.in4
2742  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2740 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2740
Taint Flags:

```
2737  val in0: Inlet[A1] = shape.in0
2738  val in1: Inlet[A2] = shape.in1
2739  val in2: Inlet[A3] = shape.in2
2740  val in3: Inlet[A4] = shape.in3
2741  val in4: Inlet[A5] = shape.in4
2742  val in5: Inlet[A6] = shape.in5
2743  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2741 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2741
Taint Flags:

```
2738  val in1: Inlet[A2] = shape.in1
2739  val in2: Inlet[A3] = shape.in2
2740  val in3: Inlet[A4] = shape.in3
2741  val in4: Inlet[A5] = shape.in4
2742  val in5: Inlet[A6] = shape.in5
2743  val in6: Inlet[A7] = shape.in6
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2741 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
2744  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2742 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2742
Taint Flags:

```
2739  val in2: Inlet[A3] = shape.in2
2740  val in3: Inlet[A4] = shape.in3
2741  val in4: Inlet[A5] = shape.in4
2742  val in5: Inlet[A6] = shape.in5
2743  val in6: Inlet[A7] = shape.in6
2744  val in7: Inlet[A8] = shape.in7
2745  val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2743 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2743
Taint Flags:

```
2740  val in3: Inlet[A4] = shape.in3
2741  val in4: Inlet[A5] = shape.in4
2742  val in5: Inlet[A6] = shape.in5
2743  val in6: Inlet[A7] = shape.in6
2744  val in7: Inlet[A8] = shape.in7
2745  val in8: Inlet[A9] = shape.in8
2746  val in9: Inlet[A10] = shape.in9
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2744 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2744
Taint Flags:

```
2741  val in4: Inlet[A5] = shape.in4
2742  val in5: Inlet[A6] = shape.in5
2743  val in6: Inlet[A7] = shape.in6
2744  val in7: Inlet[A8] = shape.in7
2745  val in8: Inlet[A9] = shape.in8
2746  val in9: Inlet[A10] = shape.in9
2747  val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2745 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2745
Taint Flags:

```
2742  val in5: Inlet[A6] = shape.in5
2743  val in6: Inlet[A7] = shape.in6
2744  val in7: Inlet[A8] = shape.in7
2745  val in8: Inlet[A9] = shape.in8
2746  val in9: Inlet[A10] = shape.in9
2747  val in10: Inlet[A11] = shape.in10
2748  val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2746 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2746 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2746
Taint Flags:

```
2743 val in6: Inlet[A7] = shape.in6
2744 val in7: Inlet[A8] = shape.in7
2745 val in8: Inlet[A9] = shape.in8
2746 val in9: Inlet[A10] = shape.in9
2747 val in10: Inlet[A11] = shape.in10
2748 val in11: Inlet[A12] = shape.in11
2749 val in12: Inlet[A13] = shape.in12
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2747 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2747
Taint Flags:

```
2744 val in7: Inlet[A8] = shape.in7
2745 val in8: Inlet[A9] = shape.in8
2746 val in9: Inlet[A10] = shape.in9
2747 val in10: Inlet[A11] = shape.in10
2748 val in11: Inlet[A12] = shape.in11
2749 val in12: Inlet[A13] = shape.in12
2750 val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2748 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith16()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2748 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2748
Taint Flags:

```
2745  val in8: Inlet[A9] = shape.in8
2746  val in9: Inlet[A10] = shape.in9
2747  val in10: Inlet[A11] = shape.in10
2748  val in11: Inlet[A12] = shape.in11
2749  val in12: Inlet[A13] = shape.in12
2750  val in13: Inlet[A14] = shape.in13
2751  val in14: Inlet[A15] = shape.in14
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2749 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2749
Taint Flags:

```
2746  val in9: Inlet[A10] = shape.in9
2747  val in10: Inlet[A11] = shape.in10
2748  val in11: Inlet[A12] = shape.in11
2749  val in12: Inlet[A13] = shape.in12
2750  val in13: Inlet[A14] = shape.in13
2751  val in14: Inlet[A15] = shape.in14
2752  val in15: Inlet[A16] = shape.in15
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2750 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2750
Taint Flags:

```
2747  val in10: Inlet[A11] = shape.in10
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2750 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
2748  val in11: Inlet[A12] = shape.in11
2749  val in12: Inlet[A13] = shape.in12
2750  val in13: Inlet[A14] = shape.in13
2751  val in14: Inlet[A15] = shape.in14
2752  val in15: Inlet[A16] = shape.in15
2753
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2751 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2751
Taint Flags:

```
2748  val in11: Inlet[A12] = shape.in11
2749  val in12: Inlet[A13] = shape.in12
2750  val in13: Inlet[A14] = shape.in13
2751  val in14: Inlet[A15] = shape.in14
2752  val in15: Inlet[A16] = shape.in15
2753
2754  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2752 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith16()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2752
Taint Flags:

```
2749  val in12: Inlet[A13] = shape.in12
2750  val in13: Inlet[A14] = shape.in13
2751  val in14: Inlet[A15] = shape.in14
2752  val in15: Inlet[A16] = shape.in15
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2752 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
2753
2754  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
2755  var pending = 0
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1675 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1675
Taint Flags:

```
1672  override def initialAttributes = Attributes.name("ZipWith12")
1673  override val shape: FanInShape12[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, O] = new FanInShape12[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, O]("ZipWith12")
1674  def out: Outlet[O] = shape.out
1675  val in0: Inlet[A1] = shape.in0
1676  val in1: Inlet[A2] = shape.in1
1677  val in2: Inlet[A3] = shape.in2
1678  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1676 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1676
Taint Flags:

```
1673  override val shape: FanInShape12[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, O] = new FanInShape12[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, O]("ZipWith12")
1674  def out: Outlet[O] = shape.out
1675  val in0: Inlet[A1] = shape.in0
1676  val in1: Inlet[A2] = shape.in1
1677  val in2: Inlet[A3] = shape.in2
1678  val in3: Inlet[A4] = shape.in3
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1676 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
1679  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1677 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1677
Taint Flags:

```
1674  def out: Outlet[O] = shape.out
1675  val in0: Inlet[A1] = shape.in0
1676  val in1: Inlet[A2] = shape.in1
1677  val in2: Inlet[A3] = shape.in2
1678  val in3: Inlet[A4] = shape.in3
1679  val in4: Inlet[A5] = shape.in4
1680  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1678 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1678
Taint Flags:

```
1675  val in0: Inlet[A1] = shape.in0
1676  val in1: Inlet[A2] = shape.in1
1677  val in2: Inlet[A3] = shape.in2
1678  val in3: Inlet[A4] = shape.in3
1679  val in4: Inlet[A5] = shape.in4
1680  val in5: Inlet[A6] = shape.in5
1681  val in6: Inlet[A7] = shape.in6
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1679 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1679
Taint Flags:

```
1676  val in1: Inlet[A2] = shape.in1
1677  val in2: Inlet[A3] = shape.in2
1678  val in3: Inlet[A4] = shape.in3
1679  val in4: Inlet[A5] = shape.in4
1680  val in5: Inlet[A6] = shape.in5
1681  val in6: Inlet[A7] = shape.in6
1682  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1680 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1680
Taint Flags:

```
1677  val in2: Inlet[A3] = shape.in2
1678  val in3: Inlet[A4] = shape.in3
1679  val in4: Inlet[A5] = shape.in4
1680  val in5: Inlet[A6] = shape.in5
1681  val in6: Inlet[A7] = shape.in6
1682  val in7: Inlet[A8] = shape.in7
1683  val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1681 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1681 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1681
Taint Flags:

```
1678 val in3: Inlet[A4] = shape.in3
1679 val in4: Inlet[A5] = shape.in4
1680 val in5: Inlet[A6] = shape.in5
1681 val in6: Inlet[A7] = shape.in6
1682 val in7: Inlet[A8] = shape.in7
1683 val in8: Inlet[A9] = shape.in8
1684 val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1682 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1682
Taint Flags:

```
1679 val in4: Inlet[A5] = shape.in4
1680 val in5: Inlet[A6] = shape.in5
1681 val in6: Inlet[A7] = shape.in6
1682 val in7: Inlet[A8] = shape.in7
1683 val in8: Inlet[A9] = shape.in8
1684 val in9: Inlet[A10] = shape.in9
1685 val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1683 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith12()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1683 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1683
Taint Flags:

```
1680  val in5: Inlet[A6] = shape.in5
1681  val in6: Inlet[A7] = shape.in6
1682  val in7: Inlet[A8] = shape.in7
1683  val in8: Inlet[A9] = shape.in8
1684  val in9: Inlet[A10] = shape.in9
1685  val in10: Inlet[A11] = shape.in10
1686  val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1684 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1684
Taint Flags:

```
1681  val in6: Inlet[A7] = shape.in6
1682  val in7: Inlet[A8] = shape.in7
1683  val in8: Inlet[A9] = shape.in8
1684  val in9: Inlet[A10] = shape.in9
1685  val in10: Inlet[A11] = shape.in10
1686  val in11: Inlet[A12] = shape.in11
1687
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1685 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1685
Taint Flags:

```
1682  val in7: Inlet[A8] = shape.in7
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1685 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
1683  val in8: Inlet[A9] = shape.in8
1684  val in9: Inlet[A10] = shape.in9
1685  val in10: Inlet[A11] = shape.in10
1686  val in11: Inlet[A12] = shape.in11
1687
1688  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1686 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith12()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1686
Taint Flags:

```
1683  val in8: Inlet[A9] = shape.in8
1684  val in9: Inlet[A10] = shape.in9
1685  val in10: Inlet[A11] = shape.in10
1686  val in11: Inlet[A12] = shape.in11
1687
1688  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
1689  var pending = 0
```

src/main/scala/akka/stream/scaladsl/CoupledTerminationFlow.scala, line 74 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in1
Enclosing Method: CoupledTerminationBidi()
File: src/main/scala/akka/stream/scaladsl/CoupledTerminationFlow.scala:74
Taint Flags:

```
71  val out1: Outlet[I] = Outlet("CoupledCompletion.out1")
72  val in2: Inlet[O] = Inlet("CoupledCompletion.in2")
73  val out2: Outlet[O] = Outlet("CoupledCompletion.out2")
74  override val shape: BidiShape[I, I, O, O] = BidiShape(in1, out1, in2, out2)
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/CoupledTerminationFlow.scala, line 74 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
75
76  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
77
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 399 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith2()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:399
Taint Flags:

```
396  override def initialAttributes = Attributes.name("ZipLatestWith2")
397  override val shape: FanInShape2[A1, A2, O] = new FanInShape2[A1, A2, O]("ZipLatestWith2")
398  def out: Outlet[O] = shape.out
399  val in0: Inlet[A1] = shape.in0
400  val in1: Inlet[A2] = shape.in1
401
402  def this(zipper: (A1, A2) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 400 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith2()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:400
Taint Flags:

```
397  override val shape: FanInShape2[A1, A2, O] = new FanInShape2[A1, A2, O]("ZipLatestWith2")
398  def out: Outlet[O] = shape.out
399  val in0: Inlet[A1] = shape.in0
400  val in1: Inlet[A2] = shape.in1
401
402  def this(zipper: (A1, A2) => O) = this(zipper, eagerComplete = true)
403
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Hub.scala, line 452 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: BroadcastHub()
File: src/main/scala/akka/stream/scaladsl/Hub.scala:452
Taint Flags:

```
449 private val WheelMask = (bufferSize * 2) - 1
450
451 val in: Inlet[T] = Inlet("BroadcastHub.in")
452 override val shape: SinkShape[T] = SinkShape(in)
453
454 // Half of buffer size, rounded up
455 private[this] val DemandThreshold = (bufferSize / 2) + (bufferSize % 2)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 210 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith2()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:210
Taint Flags:

```
207 override def initialAttributes = Attributes.name("ZipWith2")
208 override val shape: FanInShape2[A1, A2, O] = new FanInShape2[A1, A2, O]("ZipWith2")
209 def out: Outlet[O] = shape.out
210 val in0: Inlet[A1] = shape.in0
211 val in1: Inlet[A2] = shape.in1
212
213 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 211 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 211 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith2()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:211
Taint Flags:

```
208 override val shape: FanInShape2[A1, A2, O] = new FanInShape2[A1, A2, O]("ZipWith2")
209 def out: Outlet[O] = shape.out
210 val in0: Inlet[A1] = shape.in0
211 val in1: Inlet[A2] = shape.in1
212
213 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
214 var pending = 0
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 610 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: Broadcast()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:610
Taint Flags:

```
607 val in: Inlet[T] = Inlet[T]("Broadcast.in")
608 val out: immutable.IndexedSeq[Outlet[T]] = Vector.tabulate(outputPorts)(i => Outlet[T]("Broadcast.out" + i))
609 override def initialAttributes = DefaultAttributes.broadcast
610 override val shape: UniformFanOutShape[T, T] = UniformFanOutShape(in, out: _*)
611
612 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
613 new GraphStageLogic(shape) with InHandler {
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 338 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: MergePrioritized()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 338 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/scaladsl/Graph.scala:338
Taint Flags:

```
335 val in: immutable.IndexedSeq[Inlet[T]] = Vector.tabulate(priorities.size)(i => Inlet[T]("MergePrioritized.in" + i))
336 val out: Outlet[T] = Outlet[T]("MergePrioritized.out")
337 override def initialAttributes: Attributes = DefaultAttributes.mergePrioritized
338 override val shape: UniformFanInShape[T, T] = UniformFanInShape(out, in: _*)
339
340 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
341 new GraphStageLogic(shape) with OutHandler {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2544 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2544
Taint Flags:

```
2541 override def initialAttributes = Attributes.name("ZipLatestWith17")
2542 override val shape: FanInShape17[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, O] = new FanInShape17[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, O]("ZipLatestWith17")
2543 def out: Outlet[O] = shape.out
2544 val in0: Inlet[A1] = shape.in0
2545 val in1: Inlet[A2] = shape.in1
2546 val in2: Inlet[A3] = shape.in2
2547 val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2545 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2545
Taint Flags:

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2545 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
2542  override val shape: FanInShape17[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, O] = new FanInShape17[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, O]("ZipLatestWith17")
2543  def out: Outlet[O] = shape.out
2544  val in0: Inlet[A1] = shape.in0
2545  val in1: Inlet[A2] = shape.in1
2546  val in2: Inlet[A3] = shape.in2
2547  val in3: Inlet[A4] = shape.in3
2548  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2546 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2546
Taint Flags:

```
2543  def out: Outlet[O] = shape.out
2544  val in0: Inlet[A1] = shape.in0
2545  val in1: Inlet[A2] = shape.in1
2546  val in2: Inlet[A3] = shape.in2
2547  val in3: Inlet[A4] = shape.in3
2548  val in4: Inlet[A5] = shape.in4
2549  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2547 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2547
Taint Flags:

```
2544  val in0: Inlet[A1] = shape.in0
2545  val in1: Inlet[A2] = shape.in1
2546  val in2: Inlet[A3] = shape.in2
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2547 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
2547  val in3: Inlet[A4] = shape.in3
2548  val in4: Inlet[A5] = shape.in4
2549  val in5: Inlet[A6] = shape.in5
2550  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2548 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2548
Taint Flags:

```
2545  val in1: Inlet[A2] = shape.in1
2546  val in2: Inlet[A3] = shape.in2
2547  val in3: Inlet[A4] = shape.in3
2548  val in4: Inlet[A5] = shape.in4
2549  val in5: Inlet[A6] = shape.in5
2550  val in6: Inlet[A7] = shape.in6
2551  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2549 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2549
Taint Flags:

```
2546  val in2: Inlet[A3] = shape.in2
2547  val in3: Inlet[A4] = shape.in3
2548  val in4: Inlet[A5] = shape.in4
2549  val in5: Inlet[A6] = shape.in5
2550  val in6: Inlet[A7] = shape.in6
2551  val in7: Inlet[A8] = shape.in7
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2549 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
2552  val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2550 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2550
Taint Flags:

```
2547  val in3: Inlet[A4] = shape.in3
2548  val in4: Inlet[A5] = shape.in4
2549  val in5: Inlet[A6] = shape.in5
2550  val in6: Inlet[A7] = shape.in6
2551  val in7: Inlet[A8] = shape.in7
2552  val in8: Inlet[A9] = shape.in8
2553  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2551 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2551
Taint Flags:

```
2548  val in4: Inlet[A5] = shape.in4
2549  val in5: Inlet[A6] = shape.in5
2550  val in6: Inlet[A7] = shape.in6
2551  val in7: Inlet[A8] = shape.in7
2552  val in8: Inlet[A9] = shape.in8
2553  val in9: Inlet[A10] = shape.in9
2554  val in10: Inlet[A11] = shape.in10
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2552 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2552
Taint Flags:

```
2549 val in5: Inlet[A6] = shape.in5
2550 val in6: Inlet[A7] = shape.in6
2551 val in7: Inlet[A8] = shape.in7
2552 val in8: Inlet[A9] = shape.in8
2553 val in9: Inlet[A10] = shape.in9
2554 val in10: Inlet[A11] = shape.in10
2555 val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2553 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2553
Taint Flags:

```
2550 val in6: Inlet[A7] = shape.in6
2551 val in7: Inlet[A8] = shape.in7
2552 val in8: Inlet[A9] = shape.in8
2553 val in9: Inlet[A10] = shape.in9
2554 val in10: Inlet[A11] = shape.in10
2555 val in11: Inlet[A12] = shape.in11
2556 val in12: Inlet[A13] = shape.in12
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2554 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2554 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2554
Taint Flags:

```
2551  val in7: Inlet[A8] = shape.in7
2552  val in8: Inlet[A9] = shape.in8
2553  val in9: Inlet[A10] = shape.in9
2554  val in10: Inlet[A11] = shape.in10
2555  val in11: Inlet[A12] = shape.in11
2556  val in12: Inlet[A13] = shape.in12
2557  val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2555 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2555
Taint Flags:

```
2552  val in8: Inlet[A9] = shape.in8
2553  val in9: Inlet[A10] = shape.in9
2554  val in10: Inlet[A11] = shape.in10
2555  val in11: Inlet[A12] = shape.in11
2556  val in12: Inlet[A13] = shape.in12
2557  val in13: Inlet[A14] = shape.in13
2558  val in14: Inlet[A15] = shape.in14
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2556 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2556 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2556
Taint Flags:

```
2553  val in9: Inlet[A10] = shape.in9
2554  val in10: Inlet[A11] = shape.in10
2555  val in11: Inlet[A12] = shape.in11
2556  val in12: Inlet[A13] = shape.in12
2557  val in13: Inlet[A14] = shape.in13
2558  val in14: Inlet[A15] = shape.in14
2559  val in15: Inlet[A16] = shape.in15
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2557 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2557
Taint Flags:

```
2554  val in10: Inlet[A11] = shape.in10
2555  val in11: Inlet[A12] = shape.in11
2556  val in12: Inlet[A13] = shape.in12
2557  val in13: Inlet[A14] = shape.in13
2558  val in14: Inlet[A15] = shape.in14
2559  val in15: Inlet[A16] = shape.in15
2560  val in16: Inlet[A17] = shape.in16
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2558 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2558
Taint Flags:

```
2555  val in11: Inlet[A12] = shape.in11
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2558 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
2556  val in12: Inlet[A13] = shape.in12
2557  val in13: Inlet[A14] = shape.in13
2558  val in14: Inlet[A15] = shape.in14
2559  val in15: Inlet[A16] = shape.in15
2560  val in16: Inlet[A17] = shape.in16
2561
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2559 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2559
Taint Flags:

```
2556  val in12: Inlet[A13] = shape.in12
2557  val in13: Inlet[A14] = shape.in13
2558  val in14: Inlet[A15] = shape.in14
2559  val in15: Inlet[A16] = shape.in15
2560  val in16: Inlet[A17] = shape.in16
2561
2562  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2560 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith17()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:2560
Taint Flags:

```
2557  val in13: Inlet[A14] = shape.in13
2558  val in14: Inlet[A15] = shape.in14
2559  val in15: Inlet[A16] = shape.in15
2560  val in16: Inlet[A17] = shape.in16
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 2560 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
2561
2562  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17) => O) = this(zipper, eagerComplete = true)
2563
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1497 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1497
Taint Flags:

```
1494  override def initialAttributes = Attributes.name("ZipLatestWith11")
1495  override val shape: FanInShape11[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, O] = new FanInShape11[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, O]("ZipLatestWith11")
1496  def out: Outlet[O] = shape.out
1497  val in0: Inlet[A1] = shape.in0
1498  val in1: Inlet[A2] = shape.in1
1499  val in2: Inlet[A3] = shape.in2
1500  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1498 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1498
Taint Flags:

```
1495  override val shape: FanInShape11[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, O] = new FanInShape11[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, O]("ZipLatestWith11")
1496  def out: Outlet[O] = shape.out
1497  val in0: Inlet[A1] = shape.in0
1498  val in1: Inlet[A2] = shape.in1
1499  val in2: Inlet[A3] = shape.in2
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1498 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
1500  val in3: Inlet[A4] = shape.in3
1501  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1499 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1499
Taint Flags:

```
1496  def out: Outlet[O] = shape.out
1497  val in0: Inlet[A1] = shape.in0
1498  val in1: Inlet[A2] = shape.in1
1499  val in2: Inlet[A3] = shape.in2
1500  val in3: Inlet[A4] = shape.in3
1501  val in4: Inlet[A5] = shape.in4
1502  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1500 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1500
Taint Flags:

```
1497  val in0: Inlet[A1] = shape.in0
1498  val in1: Inlet[A2] = shape.in1
1499  val in2: Inlet[A3] = shape.in2
1500  val in3: Inlet[A4] = shape.in3
1501  val in4: Inlet[A5] = shape.in4
1502  val in5: Inlet[A6] = shape.in5
1503  val in6: Inlet[A7] = shape.in6
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1501 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1501
Taint Flags:

```
1498 val in1: Inlet[A2] = shape.in1
1499 val in2: Inlet[A3] = shape.in2
1500 val in3: Inlet[A4] = shape.in3
1501 val in4: Inlet[A5] = shape.in4
1502 val in5: Inlet[A6] = shape.in5
1503 val in6: Inlet[A7] = shape.in6
1504 val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1502 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1502
Taint Flags:

```
1499 val in2: Inlet[A3] = shape.in2
1500 val in3: Inlet[A4] = shape.in3
1501 val in4: Inlet[A5] = shape.in4
1502 val in5: Inlet[A6] = shape.in5
1503 val in6: Inlet[A7] = shape.in6
1504 val in7: Inlet[A8] = shape.in7
1505 val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1503 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1503 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1503
Taint Flags:

```
1500  val in3: Inlet[A4] = shape.in3
1501  val in4: Inlet[A5] = shape.in4
1502  val in5: Inlet[A6] = shape.in5
1503  val in6: Inlet[A7] = shape.in6
1504  val in7: Inlet[A8] = shape.in7
1505  val in8: Inlet[A9] = shape.in8
1506  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1504 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1504
Taint Flags:

```
1501  val in4: Inlet[A5] = shape.in4
1502  val in5: Inlet[A6] = shape.in5
1503  val in6: Inlet[A7] = shape.in6
1504  val in7: Inlet[A8] = shape.in7
1505  val in8: Inlet[A9] = shape.in8
1506  val in9: Inlet[A10] = shape.in9
1507  val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1505 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith11()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1505 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1505
Taint Flags:

```
1502  val in5: Inlet[A6] = shape.in5
1503  val in6: Inlet[A7] = shape.in6
1504  val in7: Inlet[A8] = shape.in7
1505  val in8: Inlet[A9] = shape.in8
1506  val in9: Inlet[A10] = shape.in9
1507  val in10: Inlet[A11] = shape.in10
1508
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1506 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1506
Taint Flags:

```
1503  val in6: Inlet[A7] = shape.in6
1504  val in7: Inlet[A8] = shape.in7
1505  val in8: Inlet[A9] = shape.in8
1506  val in9: Inlet[A10] = shape.in9
1507  val in10: Inlet[A11] = shape.in10
1508
1509  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1507 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1507
Taint Flags:

```
1504  val in7: Inlet[A8] = shape.in7
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1507 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
1505  val in8: Inlet[A9] = shape.in8
1506  val in9: Inlet[A10] = shape.in9
1507  val in10: Inlet[A11] = shape.in10
1508
1509  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11) => O) = this(zipper, eagerComplete = true)
1510
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1246 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1246
Taint Flags:

```
1243  override def initialAttributes = Attributes.name("ZipWith10")
1244  override val shape: FanInShape10[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, O] = new FanInShape10[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, O]("ZipWith10")
1245  def out: Outlet[O] = shape.out
1246  val in0: Inlet[A1] = shape.in0
1247  val in1: Inlet[A2] = shape.in1
1248  val in2: Inlet[A3] = shape.in2
1249  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1247 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1247
Taint Flags:

```
1244  override val shape: FanInShape10[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, O] = new FanInShape10[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, O]("ZipWith10")
1245  def out: Outlet[O] = shape.out
1246  val in0: Inlet[A1] = shape.in0
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1247 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
1247  val in1: Inlet[A2] = shape.in1
1248  val in2: Inlet[A3] = shape.in2
1249  val in3: Inlet[A4] = shape.in3
1250  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1248 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1248
Taint Flags:

```
1245  def out: Outlet[O] = shape.out
1246  val in0: Inlet[A1] = shape.in0
1247  val in1: Inlet[A2] = shape.in1
1248  val in2: Inlet[A3] = shape.in2
1249  val in3: Inlet[A4] = shape.in3
1250  val in4: Inlet[A5] = shape.in4
1251  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1249 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1249
Taint Flags:

```
1246  val in0: Inlet[A1] = shape.in0
1247  val in1: Inlet[A2] = shape.in1
1248  val in2: Inlet[A3] = shape.in2
1249  val in3: Inlet[A4] = shape.in3
1250  val in4: Inlet[A5] = shape.in4
1251  val in5: Inlet[A6] = shape.in5
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1249 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
1252  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1250 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1250
Taint Flags:

```
1247  val in1: Inlet[A2] = shape.in1
1248  val in2: Inlet[A3] = shape.in2
1249  val in3: Inlet[A4] = shape.in3
1250  val in4: Inlet[A5] = shape.in4
1251  val in5: Inlet[A6] = shape.in5
1252  val in6: Inlet[A7] = shape.in6
1253  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1251 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1251
Taint Flags:

```
1248  val in2: Inlet[A3] = shape.in2
1249  val in3: Inlet[A4] = shape.in3
1250  val in4: Inlet[A5] = shape.in4
1251  val in5: Inlet[A6] = shape.in5
1252  val in6: Inlet[A7] = shape.in6
1253  val in7: Inlet[A8] = shape.in7
1254  val in8: Inlet[A9] = shape.in8
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1252 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1252
Taint Flags:

```
1249  val in3: Inlet[A4] = shape.in3
1250  val in4: Inlet[A5] = shape.in4
1251  val in5: Inlet[A6] = shape.in5
1252  val in6: Inlet[A7] = shape.in6
1253  val in7: Inlet[A8] = shape.in7
1254  val in8: Inlet[A9] = shape.in8
1255  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1253 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1253
Taint Flags:

```
1250  val in4: Inlet[A5] = shape.in4
1251  val in5: Inlet[A6] = shape.in5
1252  val in6: Inlet[A7] = shape.in6
1253  val in7: Inlet[A8] = shape.in7
1254  val in8: Inlet[A9] = shape.in8
1255  val in9: Inlet[A10] = shape.in9
1256
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1254 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1254 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1254
Taint Flags:

```
1251  val in5: Inlet[A6] = shape.in5
1252  val in6: Inlet[A7] = shape.in6
1253  val in7: Inlet[A8] = shape.in7
1254  val in8: Inlet[A9] = shape.in8
1255  val in9: Inlet[A10] = shape.in9
1256
1257  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1255 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith10()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1255
Taint Flags:

```
1252  val in6: Inlet[A7] = shape.in6
1253  val in7: Inlet[A8] = shape.in7
1254  val in8: Inlet[A9] = shape.in8
1255  val in9: Inlet[A10] = shape.in9
1256
1257  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
1258  var pending = 0
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 463 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: Interleave()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 463 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/scaladsl/Graph.scala:463
Taint Flags:

```
460
461 val in: immutable.IndexedSeq[Inlet[T]] = Vector.tabulate(inputPorts)(i => Inlet[T]("Interleave.in" + i))
462 val out: Outlet[T] = Outlet[T]("Interleave.out")
463 override val shape: UniformFanInShape[T, T] = UniformFanInShape(out, in: _*)
464
465 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
466 new GraphStageLogic(shape) with OutHandler {
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 542 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: akka$stream$scaladsl$MergeSorted$$out
Enclosing Method: MergeSorted()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:542
Taint Flags:

```
539 private val right = Inlet[T]("right")
540 private val out = Outlet[T]("out")
541
542 override val shape = new FanInShape2(left, right, out)
543
544 override def createLogic(attr: Attributes) = new GraphStageLogic(shape) {
545 import Ordering.Implicits._
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 493 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith3()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:493
Taint Flags:

```
490 override def initialAttributes = Attributes.name("ZipLatestWith3")
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 493 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
491 override val shape: FanInShape3[A1, A2, A3, O] = new FanInShape3[A1, A2, A3, O]("ZipLatestWith3")
492 def out: Outlet[O] = shape.out
493 val in0: Inlet[A1] = shape.in0
494 val in1: Inlet[A2] = shape.in1
495 val in2: Inlet[A3] = shape.in2
496
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 494 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith3()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:494
Taint Flags:

```
491 override val shape: FanInShape3[A1, A2, A3, O] = new FanInShape3[A1, A2, A3, O]("ZipLatestWith3")
492 def out: Outlet[O] = shape.out
493 val in0: Inlet[A1] = shape.in0
494 val in1: Inlet[A2] = shape.in1
495 val in2: Inlet[A3] = shape.in2
496
497 def this(zipper: (A1, A2, A3) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 495 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith3()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:495
Taint Flags:

```
492 def out: Outlet[O] = shape.out
493 val in0: Inlet[A1] = shape.in0
494 val in1: Inlet[A2] = shape.in1
495 val in2: Inlet[A3] = shape.in2
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 495 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
496
497  def this(zipper: (A1, A2, A3) => O) = this(zipper, eagerComplete = true)
498
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 939 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith7()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:939
Taint Flags:

```
936  override def initialAttributes = Attributes.name("ZipLatestWith7")
937  override val shape: FanInShape7[A1, A2, A3, A4, A5, A6, A7, O] = new FanInShape7[A1, A2, A3, A4, A5, A6, A7, O]
("ZipLatestWith7")
938  def out: Outlet[O] = shape.out
939  val in0: Inlet[A1] = shape.in0
940  val in1: Inlet[A2] = shape.in1
941  val in2: Inlet[A3] = shape.in2
942  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 940 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith7()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:940
Taint Flags:

```
937  override val shape: FanInShape7[A1, A2, A3, A4, A5, A6, A7, O] = new FanInShape7[A1, A2, A3, A4, A5, A6, A7, O]
("ZipLatestWith7")
938  def out: Outlet[O] = shape.out
939  val in0: Inlet[A1] = shape.in0
940  val in1: Inlet[A2] = shape.in1
941  val in2: Inlet[A3] = shape.in2
942  val in3: Inlet[A4] = shape.in3
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 940 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
943 val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 941 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith7()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:941
Taint Flags:

```
938 def out: Outlet[O] = shape.out
939 val in0: Inlet[A1] = shape.in0
940 val in1: Inlet[A2] = shape.in1
941 val in2: Inlet[A3] = shape.in2
942 val in3: Inlet[A4] = shape.in3
943 val in4: Inlet[A5] = shape.in4
944 val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 942 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith7()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:942
Taint Flags:

```
939 val in0: Inlet[A1] = shape.in0
940 val in1: Inlet[A2] = shape.in1
941 val in2: Inlet[A3] = shape.in2
942 val in3: Inlet[A4] = shape.in3
943 val in4: Inlet[A5] = shape.in4
944 val in5: Inlet[A6] = shape.in5
945 val in6: Inlet[A7] = shape.in6
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 943 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith7()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:943
Taint Flags:

```
940 val in1: Inlet[A2] = shape.in1
941 val in2: Inlet[A3] = shape.in2
942 val in3: Inlet[A4] = shape.in3
943 val in4: Inlet[A5] = shape.in4
944 val in5: Inlet[A6] = shape.in5
945 val in6: Inlet[A7] = shape.in6
946
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 944 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith7()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:944
Taint Flags:

```
941 val in2: Inlet[A3] = shape.in2
942 val in3: Inlet[A4] = shape.in3
943 val in4: Inlet[A5] = shape.in4
944 val in5: Inlet[A6] = shape.in5
945 val in6: Inlet[A7] = shape.in6
946
947 def this(zipper: (A1, A2, A3, A4, A5, A6, A7) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 945 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 945 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith7()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:945
Taint Flags:

```
942 val in3: Inlet[A4] = shape.in3
943 val in4: Inlet[A5] = shape.in4
944 val in5: Inlet[A6] = shape.in5
945 val in6: Inlet[A7] = shape.in6
946
947 def this(zipper: (A1, A2, A3, A4, A5, A6, A7) => O) = this(zipper, eagerComplete = true)
948
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3162 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3162
Taint Flags:

```
3159 override def initialAttributes = Attributes.name("ZipLatestWith20")
3160 override val shape: FanInShape20[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, O] = new FanInShape20[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, O] ("ZipLatestWith20")
3161 def out: Outlet[O] = shape.out
3162 val in0: Inlet[A1] = shape.in0
3163 val in1: Inlet[A2] = shape.in1
3164 val in2: Inlet[A3] = shape.in2
3165 val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3163 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3163 (Code Correctness: Constructor Invokes Overridable Function) — Low

Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3163
Taint Flags:

```
3160  override val shape: FanInShape20[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, O] = new FanInShape20[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, O] ("ZipLatestWith20")
3161  def out: Outlet[O] = shape.out
3162  val in0: Inlet[A1] = shape.in0
3163  val in1: Inlet[A2] = shape.in1
3164  val in2: Inlet[A3] = shape.in2
3165  val in3: Inlet[A4] = shape.in3
3166  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3164 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3164
Taint Flags:

```
3161  def out: Outlet[O] = shape.out
3162  val in0: Inlet[A1] = shape.in0
3163  val in1: Inlet[A2] = shape.in1
3164  val in2: Inlet[A3] = shape.in2
3165  val in3: Inlet[A4] = shape.in3
3166  val in4: Inlet[A5] = shape.in4
3167  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3165 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3165

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3165 (Code Correctness: Constructor Invokes Overridable Function) — Low

Taint Flags:

```
3162  val in0: Inlet[A1] = shape.in0
3163  val in1: Inlet[A2] = shape.in1
3164  val in2: Inlet[A3] = shape.in2
3165  val in3: Inlet[A4] = shape.in3
3166  val in4: Inlet[A5] = shape.in4
3167  val in5: Inlet[A6] = shape.in5
3168  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3166 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3166
Taint Flags:

```
3163  val in1: Inlet[A2] = shape.in1
3164  val in2: Inlet[A3] = shape.in2
3165  val in3: Inlet[A4] = shape.in3
3166  val in4: Inlet[A5] = shape.in4
3167  val in5: Inlet[A6] = shape.in5
3168  val in6: Inlet[A7] = shape.in6
3169  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3167 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3167
Taint Flags:

```
3164  val in2: Inlet[A3] = shape.in2
3165  val in3: Inlet[A4] = shape.in3
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3167 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
3166  val in4: Inlet[A5] = shape.in4
3167  val in5: Inlet[A6] = shape.in5
3168  val in6: Inlet[A7] = shape.in6
3169  val in7: Inlet[A8] = shape.in7
3170  val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3168 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3168
Taint Flags:

```
3165  val in3: Inlet[A4] = shape.in3
3166  val in4: Inlet[A5] = shape.in4
3167  val in5: Inlet[A6] = shape.in5
3168  val in6: Inlet[A7] = shape.in6
3169  val in7: Inlet[A8] = shape.in7
3170  val in8: Inlet[A9] = shape.in8
3171  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3169 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3169
Taint Flags:

```
3166  val in4: Inlet[A5] = shape.in4
3167  val in5: Inlet[A6] = shape.in5
3168  val in6: Inlet[A7] = shape.in6
3169  val in7: Inlet[A8] = shape.in7
3170  val in8: Inlet[A9] = shape.in8
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3169 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
3171  val in9: Inlet[A10] = shape.in9
3172  val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3170 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3170
Taint Flags:

```
3167  val in5: Inlet[A6] = shape.in5
3168  val in6: Inlet[A7] = shape.in6
3169  val in7: Inlet[A8] = shape.in7
3170  val in8: Inlet[A9] = shape.in8
3171  val in9: Inlet[A10] = shape.in9
3172  val in10: Inlet[A11] = shape.in10
3173  val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3171 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3171
Taint Flags:

```
3168  val in6: Inlet[A7] = shape.in6
3169  val in7: Inlet[A8] = shape.in7
3170  val in8: Inlet[A9] = shape.in8
3171  val in9: Inlet[A10] = shape.in9
3172  val in10: Inlet[A11] = shape.in10
3173  val in11: Inlet[A12] = shape.in11
3174  val in12: Inlet[A13] = shape.in12
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3172 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3172
Taint Flags:

```
3169 val in7: Inlet[A8] = shape.in7
3170 val in8: Inlet[A9] = shape.in8
3171 val in9: Inlet[A10] = shape.in9
3172 val in10: Inlet[A11] = shape.in10
3173 val in11: Inlet[A12] = shape.in11
3174 val in12: Inlet[A13] = shape.in12
3175 val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3173 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3173
Taint Flags:

```
3170 val in8: Inlet[A9] = shape.in8
3171 val in9: Inlet[A10] = shape.in9
3172 val in10: Inlet[A11] = shape.in10
3173 val in11: Inlet[A12] = shape.in11
3174 val in12: Inlet[A13] = shape.in12
3175 val in13: Inlet[A14] = shape.in13
3176 val in14: Inlet[A15] = shape.in14
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3174 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3174 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3174
Taint Flags:

```
3171  val in9: Inlet[A10] = shape.in9
3172  val in10: Inlet[A11] = shape.in10
3173  val in11: Inlet[A12] = shape.in11
3174  val in12: Inlet[A13] = shape.in12
3175  val in13: Inlet[A14] = shape.in13
3176  val in14: Inlet[A15] = shape.in14
3177  val in15: Inlet[A16] = shape.in15
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3175 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3175
Taint Flags:

```
3172  val in10: Inlet[A11] = shape.in10
3173  val in11: Inlet[A12] = shape.in11
3174  val in12: Inlet[A13] = shape.in12
3175  val in13: Inlet[A14] = shape.in13
3176  val in14: Inlet[A15] = shape.in14
3177  val in15: Inlet[A16] = shape.in15
3178  val in16: Inlet[A17] = shape.in16
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3176 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3176 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3176
Taint Flags:

```
3173  val in11: Inlet[A12] = shape.in11
3174  val in12: Inlet[A13] = shape.in12
3175  val in13: Inlet[A14] = shape.in13
3176  val in14: Inlet[A15] = shape.in14
3177  val in15: Inlet[A16] = shape.in15
3178  val in16: Inlet[A17] = shape.in16
3179  val in17: Inlet[A18] = shape.in17
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3177 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3177
Taint Flags:

```
3174  val in12: Inlet[A13] = shape.in12
3175  val in13: Inlet[A14] = shape.in13
3176  val in14: Inlet[A15] = shape.in14
3177  val in15: Inlet[A16] = shape.in15
3178  val in16: Inlet[A17] = shape.in16
3179  val in17: Inlet[A18] = shape.in17
3180  val in18: Inlet[A19] = shape.in18
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3178 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3178
Taint Flags:

```
3175  val in13: Inlet[A14] = shape.in13
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3178 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
3176  val in14: Inlet[A15] = shape.in14
3177  val in15: Inlet[A16] = shape.in15
3178  val in16: Inlet[A17] = shape.in16
3179  val in17: Inlet[A18] = shape.in17
3180  val in18: Inlet[A19] = shape.in18
3181  val in19: Inlet[A20] = shape.in19
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3179 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3179
Taint Flags:

```
3176  val in14: Inlet[A15] = shape.in14
3177  val in15: Inlet[A16] = shape.in15
3178  val in16: Inlet[A17] = shape.in16
3179  val in17: Inlet[A18] = shape.in17
3180  val in18: Inlet[A19] = shape.in18
3181  val in19: Inlet[A20] = shape.in19
3182
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3180 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3180
Taint Flags:

```
3177  val in15: Inlet[A16] = shape.in15
3178  val in16: Inlet[A17] = shape.in16
3179  val in17: Inlet[A18] = shape.in17
3180  val in18: Inlet[A19] = shape.in18
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3180 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
3181  val in19: Inlet[A20] = shape.in19
3182
3183  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20) => O) =
this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 3181 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith20()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:3181
Taint Flags:

```
3178  val in16: Inlet[A17] = shape.in16
3179  val in17: Inlet[A18] = shape.in17
3180  val in18: Inlet[A19] = shape.in18
3181  val in19: Inlet[A20] = shape.in19
3182
3183  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20) => O) =
this(zipper, eagerComplete = true)
3184
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3370 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3370
Taint Flags:

```
3367  override def initialAttributes = Attributes.name("ZipWith18")
3368  override val shape: FanInShape18[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, O] = new
FanInShape18[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, O]("ZipWith18")
3369  def out: Outlet[O] = shape.out
3370  val in0: Inlet[A1] = shape.in0
3371  val in1: Inlet[A2] = shape.in1
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3370 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
3372  val in2: Inlet[A3] = shape.in2
3373  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3371 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3371
Taint Flags:

```
3368  override val shape: FanInShape18[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, O] = new FanInShape18[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, O]("ZipWith18")
3369  def out: Outlet[O] = shape.out
3370  val in0: Inlet[A1] = shape.in0
3371  val in1: Inlet[A2] = shape.in1
3372  val in2: Inlet[A3] = shape.in2
3373  val in3: Inlet[A4] = shape.in3
3374  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3372 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3372
Taint Flags:

```
3369  def out: Outlet[O] = shape.out
3370  val in0: Inlet[A1] = shape.in0
3371  val in1: Inlet[A2] = shape.in1
3372  val in2: Inlet[A3] = shape.in2
3373  val in3: Inlet[A4] = shape.in3
3374  val in4: Inlet[A5] = shape.in4
3375  val in5: Inlet[A6] = shape.in5
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3373 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3373
Taint Flags:

```
3370 val in0: Inlet[A1] = shape.in0
3371 val in1: Inlet[A2] = shape.in1
3372 val in2: Inlet[A3] = shape.in2
3373 val in3: Inlet[A4] = shape.in3
3374 val in4: Inlet[A5] = shape.in4
3375 val in5: Inlet[A6] = shape.in5
3376 val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3374 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3374
Taint Flags:

```
3371 val in1: Inlet[A2] = shape.in1
3372 val in2: Inlet[A3] = shape.in2
3373 val in3: Inlet[A4] = shape.in3
3374 val in4: Inlet[A5] = shape.in4
3375 val in5: Inlet[A6] = shape.in5
3376 val in6: Inlet[A7] = shape.in6
3377 val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3375 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3375 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3375
Taint Flags:

```
3372  val in2: Inlet[A3] = shape.in2
3373  val in3: Inlet[A4] = shape.in3
3374  val in4: Inlet[A5] = shape.in4
3375  val in5: Inlet[A6] = shape.in5
3376  val in6: Inlet[A7] = shape.in6
3377  val in7: Inlet[A8] = shape.in7
3378  val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3376 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3376
Taint Flags:

```
3373  val in3: Inlet[A4] = shape.in3
3374  val in4: Inlet[A5] = shape.in4
3375  val in5: Inlet[A6] = shape.in5
3376  val in6: Inlet[A7] = shape.in6
3377  val in7: Inlet[A8] = shape.in7
3378  val in8: Inlet[A9] = shape.in8
3379  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3377 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3377 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3377
Taint Flags:

```
3374  val in4: Inlet[A5] = shape.in4
3375  val in5: Inlet[A6] = shape.in5
3376  val in6: Inlet[A7] = shape.in6
3377  val in7: Inlet[A8] = shape.in7
3378  val in8: Inlet[A9] = shape.in8
3379  val in9: Inlet[A10] = shape.in9
3380  val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3378 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3378
Taint Flags:

```
3375  val in5: Inlet[A6] = shape.in5
3376  val in6: Inlet[A7] = shape.in6
3377  val in7: Inlet[A8] = shape.in7
3378  val in8: Inlet[A9] = shape.in8
3379  val in9: Inlet[A10] = shape.in9
3380  val in10: Inlet[A11] = shape.in10
3381  val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3379 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3379
Taint Flags:

```
3376  val in6: Inlet[A7] = shape.in6
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3379 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
3377  val in7: Inlet[A8] = shape.in7
3378  val in8: Inlet[A9] = shape.in8
3379  val in9: Inlet[A10] = shape.in9
3380  val in10: Inlet[A11] = shape.in10
3381  val in11: Inlet[A12] = shape.in11
3382  val in12: Inlet[A13] = shape.in12
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3380 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3380
Taint Flags:

```
3377  val in7: Inlet[A8] = shape.in7
3378  val in8: Inlet[A9] = shape.in8
3379  val in9: Inlet[A10] = shape.in9
3380  val in10: Inlet[A11] = shape.in10
3381  val in11: Inlet[A12] = shape.in11
3382  val in12: Inlet[A13] = shape.in12
3383  val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3381 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3381
Taint Flags:

```
3378  val in8: Inlet[A9] = shape.in8
3379  val in9: Inlet[A10] = shape.in9
3380  val in10: Inlet[A11] = shape.in10
3381  val in11: Inlet[A12] = shape.in11
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3381 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
3382  val in12: Inlet[A13] = shape.in12
3383  val in13: Inlet[A14] = shape.in13
3384  val in14: Inlet[A15] = shape.in14
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3382 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3382
Taint Flags:

```
3379  val in9: Inlet[A10] = shape.in9
3380  val in10: Inlet[A11] = shape.in10
3381  val in11: Inlet[A12] = shape.in11
3382  val in12: Inlet[A13] = shape.in12
3383  val in13: Inlet[A14] = shape.in13
3384  val in14: Inlet[A15] = shape.in14
3385  val in15: Inlet[A16] = shape.in15
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3383 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3383
Taint Flags:

```
3380  val in10: Inlet[A11] = shape.in10
3381  val in11: Inlet[A12] = shape.in11
3382  val in12: Inlet[A13] = shape.in12
3383  val in13: Inlet[A14] = shape.in13
3384  val in14: Inlet[A15] = shape.in14
3385  val in15: Inlet[A16] = shape.in15
3386  val in16: Inlet[A17] = shape.in16
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3384 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3384
Taint Flags:

```
3381  val in11: Inlet[A12] = shape.in11
3382  val in12: Inlet[A13] = shape.in12
3383  val in13: Inlet[A14] = shape.in13
3384  val in14: Inlet[A15] = shape.in14
3385  val in15: Inlet[A16] = shape.in15
3386  val in16: Inlet[A17] = shape.in16
3387  val in17: Inlet[A18] = shape.in17
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3385 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3385
Taint Flags:

```
3382  val in12: Inlet[A13] = shape.in12
3383  val in13: Inlet[A14] = shape.in13
3384  val in14: Inlet[A15] = shape.in14
3385  val in15: Inlet[A16] = shape.in15
3386  val in16: Inlet[A17] = shape.in16
3387  val in17: Inlet[A18] = shape.in17
3388
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3386 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3386 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3386
Taint Flags:

```
3383  val in13: Inlet[A14] = shape.in13
3384  val in14: Inlet[A15] = shape.in14
3385  val in15: Inlet[A16] = shape.in15
3386  val in16: Inlet[A17] = shape.in16
3387  val in17: Inlet[A18] = shape.in17
3388
3389  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3387 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith18()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3387
Taint Flags:

```
3384  val in14: Inlet[A15] = shape.in14
3385  val in15: Inlet[A16] = shape.in15
3386  val in16: Inlet[A17] = shape.in16
3387  val in17: Inlet[A18] = shape.in17
3388
3389  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
3390  var pending = 0
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 802 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out
Enclosing Method: Partition()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 802 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/akka/stream/scaladsl/Graph.scala:802
Taint Flags:

```
799
800 val in: Inlet[T] = Inlet[T]("Partition.in")
801 val out: Seq[Outlet[T]] = Seq.tabulate(outputPorts)(i => Outlet[T]("Partition.out" + i)) // FIXME BC make this immutable.IndexedSeq as type + Vector as concrete impl
802 override val shape: UniformFanOutShape[T, T] = UniformFanOutShape[T, T](in, out: _*)
803
804 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic =
805 new GraphStageLogic(shape) with InHandler {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 592 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith6()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:592
Taint Flags:

```
589 override def initialAttributes = Attributes.name("ZipWith6")
590 override val shape: FanInShape6[A1, A2, A3, A4, A5, A6, O] = new FanInShape6[A1, A2, A3, A4, A5, A6, O]("ZipWith6")
591 def out: Outlet[O] = shape.out
592 val in0: Inlet[A1] = shape.in0
593 val in1: Inlet[A2] = shape.in1
594 val in2: Inlet[A3] = shape.in2
595 val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 593 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith6()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:593
Taint Flags:

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 593 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
590 override val shape: FanInShape6[A1, A2, A3, A4, A5, A6, O] = new FanInShape6[A1, A2, A3, A4, A5, A6, O]("ZipWith6")
591 def out: Outlet[O] = shape.out
592 val in0: Inlet[A1] = shape.in0
593 val in1: Inlet[A2] = shape.in1
594 val in2: Inlet[A3] = shape.in2
595 val in3: Inlet[A4] = shape.in3
596 val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 594 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith6()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:594
Taint Flags:

```
591 def out: Outlet[O] = shape.out
592 val in0: Inlet[A1] = shape.in0
593 val in1: Inlet[A2] = shape.in1
594 val in2: Inlet[A3] = shape.in2
595 val in3: Inlet[A4] = shape.in3
596 val in4: Inlet[A5] = shape.in4
597 val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 595 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith6()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:595
Taint Flags:

```
592 val in0: Inlet[A1] = shape.in0
593 val in1: Inlet[A2] = shape.in1
594 val in2: Inlet[A3] = shape.in2
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 595 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
595  val in3: Inlet[A4] = shape.in3
596  val in4: Inlet[A5] = shape.in4
597  val in5: Inlet[A6] = shape.in5
598
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 596 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith6()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:596
Taint Flags:

```
593  val in1: Inlet[A2] = shape.in1
594  val in2: Inlet[A3] = shape.in2
595  val in3: Inlet[A4] = shape.in3
596  val in4: Inlet[A5] = shape.in4
597  val in5: Inlet[A6] = shape.in5
598
599  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 597 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith6()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:597
Taint Flags:

```
594  val in2: Inlet[A3] = shape.in2
595  val in3: Inlet[A4] = shape.in3
596  val in4: Inlet[A5] = shape.in4
597  val in5: Inlet[A6] = shape.in5
598
599  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 597 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
600  var pending = 0
```

src/main/scala/akka/stream/scaladsl/CoupledTerminationFlow.scala, line 74 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: out1
Enclosing Method: CoupledTerminationBidi()
File: src/main/scala/akka/stream/scaladsl/CoupledTerminationFlow.scala:74
Taint Flags:

```
71  val out1: Outlet[I] = Outlet("CoupledCompletion.out1")
72  val in2: Inlet[O] = Inlet("CoupledCompletion.in2")
73  val out2: Outlet[O] = Outlet("CoupledCompletion.out2")
74  override val shape: BidiShape[I, I, O, O] = BidiShape(in1, out1, in2, out2)
75
76  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
77
```

src/main/scala/akka/stream/scaladsl/Hub.scala, line 1106 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: in
Enclosing Method: PartitionHub()
File: src/main/scala/akka/stream/scaladsl/Hub.scala:1106
Taint Flags:

```
1103  import PartitionHub.Internal._
1104
1105  val in: Inlet[T] = Inlet("PartitionHub.in")
1106  override val shape: SinkShape[T] = SinkShape(in)
1107
1108  // Need the queue to be pluggable to be able to use a more performant (less general)
1109  // queue in Artery
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1452 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1452
Taint Flags:

```
1449  override def initialAttributes = Attributes.name("ZipWith11")
1450  override val shape: FanInShape11[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, O] = new FanInShape11[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, O]("ZipWith11")
1451  def out: Outlet[O] = shape.out
1452  val in0: Inlet[A1] = shape.in0
1453  val in1: Inlet[A2] = shape.in1
1454  val in2: Inlet[A3] = shape.in2
1455  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1453 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1453
Taint Flags:

```
1450  override val shape: FanInShape11[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, O] = new FanInShape11[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, O]("ZipWith11")
1451  def out: Outlet[O] = shape.out
1452  val in0: Inlet[A1] = shape.in0
1453  val in1: Inlet[A2] = shape.in1
1454  val in2: Inlet[A3] = shape.in2
1455  val in3: Inlet[A4] = shape.in3
1456  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1454 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1454 (Code Correctness: Constructor Invokes Overridable Function) — Low

Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1454
Taint Flags:

```
1451  def out: Outlet[O] = shape.out
1452  val in0: Inlet[A1] = shape.in0
1453  val in1: Inlet[A2] = shape.in1
1454  val in2: Inlet[A3] = shape.in2
1455  val in3: Inlet[A4] = shape.in3
1456  val in4: Inlet[A5] = shape.in4
1457  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1455 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1455
Taint Flags:

```
1452  val in0: Inlet[A1] = shape.in0
1453  val in1: Inlet[A2] = shape.in1
1454  val in2: Inlet[A3] = shape.in2
1455  val in3: Inlet[A4] = shape.in3
1456  val in4: Inlet[A5] = shape.in4
1457  val in5: Inlet[A6] = shape.in5
1458  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1456 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1456 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink: FunctionCall: shape
Enclosing Method: ZipWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1456
Taint Flags:

```
1453  val in1: Inlet[A2] = shape.in1
1454  val in2: Inlet[A3] = shape.in2
1455  val in3: Inlet[A4] = shape.in3
1456  val in4: Inlet[A5] = shape.in4
1457  val in5: Inlet[A6] = shape.in5
1458  val in6: Inlet[A7] = shape.in6
1459  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1457 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1457
Taint Flags:

```
1454  val in2: Inlet[A3] = shape.in2
1455  val in3: Inlet[A4] = shape.in3
1456  val in4: Inlet[A5] = shape.in4
1457  val in5: Inlet[A6] = shape.in5
1458  val in6: Inlet[A7] = shape.in6
1459  val in7: Inlet[A8] = shape.in7
1460  val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1458 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1458
Taint Flags:

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1458 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
1455  val in3: Inlet[A4] = shape.in3
1456  val in4: Inlet[A5] = shape.in4
1457  val in5: Inlet[A6] = shape.in5
1458  val in6: Inlet[A7] = shape.in6
1459  val in7: Inlet[A8] = shape.in7
1460  val in8: Inlet[A9] = shape.in8
1461  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1459 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1459
Taint Flags:

```
1456  val in4: Inlet[A5] = shape.in4
1457  val in5: Inlet[A6] = shape.in5
1458  val in6: Inlet[A7] = shape.in6
1459  val in7: Inlet[A8] = shape.in7
1460  val in8: Inlet[A9] = shape.in8
1461  val in9: Inlet[A10] = shape.in9
1462  val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1460 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1460
Taint Flags:

```
1457  val in5: Inlet[A6] = shape.in5
1458  val in6: Inlet[A7] = shape.in6
1459  val in7: Inlet[A8] = shape.in7
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1460 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
1460  val in8: Inlet[A9] = shape.in8
1461  val in9: Inlet[A10] = shape.in9
1462  val in10: Inlet[A11] = shape.in10
1463
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1461 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1461
Taint Flags:

```
1458  val in6: Inlet[A7] = shape.in6
1459  val in7: Inlet[A8] = shape.in7
1460  val in8: Inlet[A9] = shape.in8
1461  val in9: Inlet[A10] = shape.in9
1462  val in10: Inlet[A11] = shape.in10
1463
1464  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1462 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith11()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:1462
Taint Flags:

```
1459  val in7: Inlet[A8] = shape.in7
1460  val in8: Inlet[A9] = shape.in8
1461  val in9: Inlet[A10] = shape.in9
1462  val in10: Inlet[A11] = shape.in10
1463
1464  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 1462 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
1465  var pending = 0
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2446 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2446
Taint Flags:

```
2443  override def initialAttributes = Attributes.name("ZipWith15")
2444  override val shape: FanInShape15[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, O] = new FanInShape15[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, O]("ZipWith15")
2445  def out: Outlet[O] = shape.out
2446  val in0: Inlet[A1] = shape.in0
2447  val in1: Inlet[A2] = shape.in1
2448  val in2: Inlet[A3] = shape.in2
2449  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2447 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2447
Taint Flags:

```
2444  override val shape: FanInShape15[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, O] = new FanInShape15[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, O]("ZipWith15")
2445  def out: Outlet[O] = shape.out
2446  val in0: Inlet[A1] = shape.in0
2447  val in1: Inlet[A2] = shape.in1
2448  val in2: Inlet[A3] = shape.in2
2449  val in3: Inlet[A4] = shape.in3
2450  val in4: Inlet[A5] = shape.in4
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2448 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2448
Taint Flags:

```
2445 def out: Outlet[O] = shape.out
2446 val in0: Inlet[A1] = shape.in0
2447 val in1: Inlet[A2] = shape.in1
2448 val in2: Inlet[A3] = shape.in2
2449 val in3: Inlet[A4] = shape.in3
2450 val in4: Inlet[A5] = shape.in4
2451 val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2449 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2449
Taint Flags:

```
2446 val in0: Inlet[A1] = shape.in0
2447 val in1: Inlet[A2] = shape.in1
2448 val in2: Inlet[A3] = shape.in2
2449 val in3: Inlet[A4] = shape.in3
2450 val in4: Inlet[A5] = shape.in4
2451 val in5: Inlet[A6] = shape.in5
2452 val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2450 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2450 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2450
Taint Flags:

```
2447 val in1: Inlet[A2] = shape.in1
2448 val in2: Inlet[A3] = shape.in2
2449 val in3: Inlet[A4] = shape.in3
2450 val in4: Inlet[A5] = shape.in4
2451 val in5: Inlet[A6] = shape.in5
2452 val in6: Inlet[A7] = shape.in6
2453 val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2451 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2451
Taint Flags:

```
2448 val in2: Inlet[A3] = shape.in2
2449 val in3: Inlet[A4] = shape.in3
2450 val in4: Inlet[A5] = shape.in4
2451 val in5: Inlet[A6] = shape.in5
2452 val in6: Inlet[A7] = shape.in6
2453 val in7: Inlet[A8] = shape.in7
2454 val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2452 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith15()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2452 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2452
Taint Flags:

```
2449  val in3: Inlet[A4] = shape.in3
2450  val in4: Inlet[A5] = shape.in4
2451  val in5: Inlet[A6] = shape.in5
2452  val in6: Inlet[A7] = shape.in6
2453  val in7: Inlet[A8] = shape.in7
2454  val in8: Inlet[A9] = shape.in8
2455  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2453 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2453
Taint Flags:

```
2450  val in4: Inlet[A5] = shape.in4
2451  val in5: Inlet[A6] = shape.in5
2452  val in6: Inlet[A7] = shape.in6
2453  val in7: Inlet[A8] = shape.in7
2454  val in8: Inlet[A9] = shape.in8
2455  val in9: Inlet[A10] = shape.in9
2456  val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2454 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2454
Taint Flags:

```
2451  val in5: Inlet[A6] = shape.in5
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2454 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
2452  val in6: Inlet[A7] = shape.in6
2453  val in7: Inlet[A8] = shape.in7
2454  val in8: Inlet[A9] = shape.in8
2455  val in9: Inlet[A10] = shape.in9
2456  val in10: Inlet[A11] = shape.in10
2457  val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2455 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2455
Taint Flags:

```
2452  val in6: Inlet[A7] = shape.in6
2453  val in7: Inlet[A8] = shape.in7
2454  val in8: Inlet[A9] = shape.in8
2455  val in9: Inlet[A10] = shape.in9
2456  val in10: Inlet[A11] = shape.in10
2457  val in11: Inlet[A12] = shape.in11
2458  val in12: Inlet[A13] = shape.in12
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2456 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2456
Taint Flags:

```
2453  val in7: Inlet[A8] = shape.in7
2454  val in8: Inlet[A9] = shape.in8
2455  val in9: Inlet[A10] = shape.in9
2456  val in10: Inlet[A11] = shape.in10
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2456 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
2457  val in11: Inlet[A12] = shape.in11
2458  val in12: Inlet[A13] = shape.in12
2459  val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2457 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2457
Taint Flags:

```
2454  val in8: Inlet[A9] = shape.in8
2455  val in9: Inlet[A10] = shape.in9
2456  val in10: Inlet[A11] = shape.in10
2457  val in11: Inlet[A12] = shape.in11
2458  val in12: Inlet[A13] = shape.in12
2459  val in13: Inlet[A14] = shape.in13
2460  val in14: Inlet[A15] = shape.in14
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2458 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2458
Taint Flags:

```
2455  val in9: Inlet[A10] = shape.in9
2456  val in10: Inlet[A11] = shape.in10
2457  val in11: Inlet[A12] = shape.in11
2458  val in12: Inlet[A13] = shape.in12
2459  val in13: Inlet[A14] = shape.in13
2460  val in14: Inlet[A15] = shape.in14
2461
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2459 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2459
Taint Flags:

```
2456 val in10: Inlet[A11] = shape.in10
2457 val in11: Inlet[A12] = shape.in11
2458 val in12: Inlet[A13] = shape.in12
2459 val in13: Inlet[A14] = shape.in13
2460 val in14: Inlet[A15] = shape.in14
2461
2462 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 2460 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith15()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:2460
Taint Flags:

```
2457 val in11: Inlet[A12] = shape.in11
2458 val in12: Inlet[A13] = shape.in12
2459 val in13: Inlet[A14] = shape.in13
2460 val in14: Inlet[A15] = shape.in14
2461
2462 override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
2463 var pending = 0
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1818 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1818 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1818
Taint Flags:

```
1815  override def initialAttributes = Attributes.name("ZipLatestWith13")
1816  override val shape: FanInShape13[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, O] = new FanInShape13[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, O]("ZipLatestWith13")
1817  def out: Outlet[O] = shape.out
1818  val in0: Inlet[A1] = shape.in0
1819  val in1: Inlet[A2] = shape.in1
1820  val in2: Inlet[A3] = shape.in2
1821  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1819 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1819
Taint Flags:

```
1816  override val shape: FanInShape13[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, O] = new FanInShape13[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, O]("ZipLatestWith13")
1817  def out: Outlet[O] = shape.out
1818  val in0: Inlet[A1] = shape.in0
1819  val in1: Inlet[A2] = shape.in1
1820  val in2: Inlet[A3] = shape.in2
1821  val in3: Inlet[A4] = shape.in3
1822  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1820 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1820 (Code Correctness: Constructor Invokes Overridable Function) — Low

Enclosing Method: ZipLatestWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1820
Taint Flags:

```
1817  def out: Outlet[O] = shape.out
1818  val in0: Inlet[A1] = shape.in0
1819  val in1: Inlet[A2] = shape.in1
1820  val in2: Inlet[A3] = shape.in2
1821  val in3: Inlet[A4] = shape.in3
1822  val in4: Inlet[A5] = shape.in4
1823  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1821 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1821
Taint Flags:

```
1818  val in0: Inlet[A1] = shape.in0
1819  val in1: Inlet[A2] = shape.in1
1820  val in2: Inlet[A3] = shape.in2
1821  val in3: Inlet[A4] = shape.in3
1822  val in4: Inlet[A5] = shape.in4
1823  val in5: Inlet[A6] = shape.in5
1824  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1822 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1822
Taint Flags:

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1822 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
1819  val in1: Inlet[A2] = shape.in1
1820  val in2: Inlet[A3] = shape.in2
1821  val in3: Inlet[A4] = shape.in3
1822  val in4: Inlet[A5] = shape.in4
1823  val in5: Inlet[A6] = shape.in5
1824  val in6: Inlet[A7] = shape.in6
1825  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1823 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1823
Taint Flags:

```
1820  val in2: Inlet[A3] = shape.in2
1821  val in3: Inlet[A4] = shape.in3
1822  val in4: Inlet[A5] = shape.in4
1823  val in5: Inlet[A6] = shape.in5
1824  val in6: Inlet[A7] = shape.in6
1825  val in7: Inlet[A8] = shape.in7
1826  val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1824 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1824
Taint Flags:

```
1821  val in3: Inlet[A4] = shape.in3
1822  val in4: Inlet[A5] = shape.in4
1823  val in5: Inlet[A6] = shape.in5
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1824 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
1824  val in6: Inlet[A7] = shape.in6
1825  val in7: Inlet[A8] = shape.in7
1826  val in8: Inlet[A9] = shape.in8
1827  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1825 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1825
Taint Flags:

```
1822  val in4: Inlet[A5] = shape.in4
1823  val in5: Inlet[A6] = shape.in5
1824  val in6: Inlet[A7] = shape.in6
1825  val in7: Inlet[A8] = shape.in7
1826  val in8: Inlet[A9] = shape.in8
1827  val in9: Inlet[A10] = shape.in9
1828  val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1826 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1826
Taint Flags:

```
1823  val in5: Inlet[A6] = shape.in5
1824  val in6: Inlet[A7] = shape.in6
1825  val in7: Inlet[A8] = shape.in7
1826  val in8: Inlet[A9] = shape.in8
1827  val in9: Inlet[A10] = shape.in9
1828  val in10: Inlet[A11] = shape.in10
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1826 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
1829  val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1827 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1827
Taint Flags:

```
1824  val in6: Inlet[A7] = shape.in6
1825  val in7: Inlet[A8] = shape.in7
1826  val in8: Inlet[A9] = shape.in8
1827  val in9: Inlet[A10] = shape.in9
1828  val in10: Inlet[A11] = shape.in10
1829  val in11: Inlet[A12] = shape.in11
1830  val in12: Inlet[A13] = shape.in12
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1828 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1828
Taint Flags:

```
1825  val in7: Inlet[A8] = shape.in7
1826  val in8: Inlet[A9] = shape.in8
1827  val in9: Inlet[A10] = shape.in9
1828  val in10: Inlet[A11] = shape.in10
1829  val in11: Inlet[A12] = shape.in11
1830  val in12: Inlet[A13] = shape.in12
1831
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1829 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1829
Taint Flags:

```
1826  val in8: Inlet[A9] = shape.in8
1827  val in9: Inlet[A10] = shape.in9
1828  val in10: Inlet[A11] = shape.in10
1829  val in11: Inlet[A12] = shape.in11
1830  val in12: Inlet[A13] = shape.in12
1831
1832  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13) => O) = this(zipper, eagerComplete = true)
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala, line 1830 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipLatestWith13()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipLatestWithApply.scala:1830
Taint Flags:

```
1827  val in9: Inlet[A10] = shape.in9
1828  val in10: Inlet[A11] = shape.in10
1829  val in11: Inlet[A12] = shape.in11
1830  val in12: Inlet[A13] = shape.in12
1831
1832  def this(zipper: (A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13) => O) = this(zipper, eagerComplete = true)
1833
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 1391 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 1391 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: out
Enclosing Method: OrElse()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:1391
Taint Flags:

```
1388  val secondary = Inlet[T]("OrElse.secondary")
1389  val out = Outlet[T]("OrElse.out")
1390
1391  override val shape: UniformFanInShape[T, T] = UniformFanInShape(out, primary, secondary)
1392
1393  override protected def initialAttributes: Attributes = DefaultAttributes.orElse
1394
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3712 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3712
Taint Flags:

```
3709  override def initialAttributes = Attributes.name("ZipWith19")
3710  override val shape: FanInShape19[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, O] =
new FanInShape19[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, O]("ZipWith19")
3711  def out: Outlet[O] = shape.out
3712  val in0: Inlet[A1] = shape.in0
3713  val in1: Inlet[A2] = shape.in1
3714  val in2: Inlet[A3] = shape.in2
3715  val in3: Inlet[A4] = shape.in3
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3713 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3713 (Code Correctness: Constructor Invokes Overridable Function) — Low

Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3713
Taint Flags:

```
3710  override val shape: FanInShape19[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, O] =
      new FanInShape19[A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, O]("ZipWith19")
3711  def out: Outlet[O] = shape.out
3712  val in0: Inlet[A1] = shape.in0
3713  val in1: Inlet[A2] = shape.in1
3714  val in2: Inlet[A3] = shape.in2
3715  val in3: Inlet[A4] = shape.in3
3716  val in4: Inlet[A5] = shape.in4
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3714 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3714
Taint Flags:

```
3711  def out: Outlet[O] = shape.out
3712  val in0: Inlet[A1] = shape.in0
3713  val in1: Inlet[A2] = shape.in1
3714  val in2: Inlet[A3] = shape.in2
3715  val in3: Inlet[A4] = shape.in3
3716  val in4: Inlet[A5] = shape.in4
3717  val in5: Inlet[A6] = shape.in5
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3715 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3715
Taint Flags:

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3715 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
3712  val in0: Inlet[A1] = shape.in0
3713  val in1: Inlet[A2] = shape.in1
3714  val in2: Inlet[A3] = shape.in2
3715  val in3: Inlet[A4] = shape.in3
3716  val in4: Inlet[A5] = shape.in4
3717  val in5: Inlet[A6] = shape.in5
3718  val in6: Inlet[A7] = shape.in6
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3716 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3716
Taint Flags:

```
3713  val in1: Inlet[A2] = shape.in1
3714  val in2: Inlet[A3] = shape.in2
3715  val in3: Inlet[A4] = shape.in3
3716  val in4: Inlet[A5] = shape.in4
3717  val in5: Inlet[A6] = shape.in5
3718  val in6: Inlet[A7] = shape.in6
3719  val in7: Inlet[A8] = shape.in7
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3717 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3717
Taint Flags:

```
3714  val in2: Inlet[A3] = shape.in2
3715  val in3: Inlet[A4] = shape.in3
3716  val in4: Inlet[A5] = shape.in4
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3717 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
3717  val in5: Inlet[A6] = shape.in5
3718  val in6: Inlet[A7] = shape.in6
3719  val in7: Inlet[A8] = shape.in7
3720  val in8: Inlet[A9] = shape.in8
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3718 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3718
Taint Flags:

```
3715  val in3: Inlet[A4] = shape.in3
3716  val in4: Inlet[A5] = shape.in4
3717  val in5: Inlet[A6] = shape.in5
3718  val in6: Inlet[A7] = shape.in6
3719  val in7: Inlet[A8] = shape.in7
3720  val in8: Inlet[A9] = shape.in8
3721  val in9: Inlet[A10] = shape.in9
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3719 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3719
Taint Flags:

```
3716  val in4: Inlet[A5] = shape.in4
3717  val in5: Inlet[A6] = shape.in5
3718  val in6: Inlet[A7] = shape.in6
3719  val in7: Inlet[A8] = shape.in7
3720  val in8: Inlet[A9] = shape.in8
3721  val in9: Inlet[A10] = shape.in9
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3719 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
3722  val in10: Inlet[A11] = shape.in10
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3720 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3720
Taint Flags:

```
3717  val in5: Inlet[A6] = shape.in5
3718  val in6: Inlet[A7] = shape.in6
3719  val in7: Inlet[A8] = shape.in7
3720  val in8: Inlet[A9] = shape.in8
3721  val in9: Inlet[A10] = shape.in9
3722  val in10: Inlet[A11] = shape.in10
3723  val in11: Inlet[A12] = shape.in11
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3721 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3721
Taint Flags:

```
3718  val in6: Inlet[A7] = shape.in6
3719  val in7: Inlet[A8] = shape.in7
3720  val in8: Inlet[A9] = shape.in8
3721  val in9: Inlet[A10] = shape.in9
3722  val in10: Inlet[A11] = shape.in10
3723  val in11: Inlet[A12] = shape.in11
3724  val in12: Inlet[A13] = shape.in12
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3722 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3722
Taint Flags:

```
3719  val in7: Inlet[A8] = shape.in7
3720  val in8: Inlet[A9] = shape.in8
3721  val in9: Inlet[A10] = shape.in9
3722  val in10: Inlet[A11] = shape.in10
3723  val in11: Inlet[A12] = shape.in11
3724  val in12: Inlet[A13] = shape.in12
3725  val in13: Inlet[A14] = shape.in13
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3723 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3723
Taint Flags:

```
3720  val in8: Inlet[A9] = shape.in8
3721  val in9: Inlet[A10] = shape.in9
3722  val in10: Inlet[A11] = shape.in10
3723  val in11: Inlet[A12] = shape.in11
3724  val in12: Inlet[A13] = shape.in12
3725  val in13: Inlet[A14] = shape.in13
3726  val in14: Inlet[A15] = shape.in14
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3724 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3724 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3724
Taint Flags:

```
3721 val in9: Inlet[A10] = shape.in9
3722 val in10: Inlet[A11] = shape.in10
3723 val in11: Inlet[A12] = shape.in11
3724 val in12: Inlet[A13] = shape.in12
3725 val in13: Inlet[A14] = shape.in13
3726 val in14: Inlet[A15] = shape.in14
3727 val in15: Inlet[A16] = shape.in15
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3725 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3725
Taint Flags:

```
3722 val in10: Inlet[A11] = shape.in10
3723 val in11: Inlet[A12] = shape.in11
3724 val in12: Inlet[A13] = shape.in12
3725 val in13: Inlet[A14] = shape.in13
3726 val in14: Inlet[A15] = shape.in14
3727 val in15: Inlet[A16] = shape.in15
3728 val in16: Inlet[A17] = shape.in16
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3726 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3726 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3726
Taint Flags:

```
3723  val in11: Inlet[A12] = shape.in11
3724  val in12: Inlet[A13] = shape.in12
3725  val in13: Inlet[A14] = shape.in13
3726  val in14: Inlet[A15] = shape.in14
3727  val in15: Inlet[A16] = shape.in15
3728  val in16: Inlet[A17] = shape.in16
3729  val in17: Inlet[A18] = shape.in17
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3727 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3727
Taint Flags:

```
3724  val in12: Inlet[A13] = shape.in12
3725  val in13: Inlet[A14] = shape.in13
3726  val in14: Inlet[A15] = shape.in14
3727  val in15: Inlet[A16] = shape.in15
3728  val in16: Inlet[A17] = shape.in16
3729  val in17: Inlet[A18] = shape.in17
3730  val in18: Inlet[A19] = shape.in18
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3728 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3728
Taint Flags:

```
3725  val in13: Inlet[A14] = shape.in13
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3728 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
3726  val in14: Inlet[A15] = shape.in14
3727  val in15: Inlet[A16] = shape.in15
3728  val in16: Inlet[A17] = shape.in16
3729  val in17: Inlet[A18] = shape.in17
3730  val in18: Inlet[A19] = shape.in18
3731
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3729 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3729
Taint Flags:

```
3726  val in14: Inlet[A15] = shape.in14
3727  val in15: Inlet[A16] = shape.in15
3728  val in16: Inlet[A17] = shape.in16
3729  val in17: Inlet[A18] = shape.in17
3730  val in18: Inlet[A19] = shape.in18
3731
3732  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
```

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3730 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: shape
Enclosing Method: ZipWith19()
File: target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala:3730
Taint Flags:

```
3727  val in15: Inlet[A16] = shape.in15
3728  val in16: Inlet[A17] = shape.in16
3729  val in17: Inlet[A18] = shape.in17
3730  val in18: Inlet[A19] = shape.in18
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: akka.stream.scaladsl

target/scala-2.13/src_managed/main/akka/stream/scaladsl/ZipWithApply.scala, line 3730 (Code Correctness: Constructor Invokes Overridable Function) — Low

```
3731
3732  override def createLogic(inheritedAttributes: Attributes): GraphStageLogic = new GraphStageLogic(shape) {
3733  var pending = 0
```

src/main/scala/akka/stream/scaladsl/BidiFlow.scala, line 226 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: fromFlows
Enclosing Method: BidiFlow()
File: src/main/scala/akka/stream/scaladsl/BidiFlow.scala:226
Taint Flags:

```
223 }
224
225 object BidiFlow {
226  private[this] val _identity: BidiFlow[Any, Any, Any, Any, NotUsed] =
227  BidiFlow.fromFlows(Flow[Any], Flow[Any])
228
229  def identity[A, B]: BidiFlow[A, A, B, B, NotUsed] = _identity.asInstanceOf[BidiFlow[A, A, B, B, NotUsed]]
```

Package: com.typesafe.sslconfig.akka

src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala, line 87 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: buildKeyManagerFactory
Enclosing Method: AkkaSSLConfig()
File: src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala:87
Taint Flags:

```
84  SSLContext.getDefault
85  } else {
86  // break out the static methods as much as we can...
87  val keyManagerFactory = buildKeyManagerFactory(config)
88  val trustManagerFactory = buildTrustManagerFactory(config)
89  new ConfigSSLContextBuilder(mkLogger, config, keyManagerFactory, trustManagerFactory).build()
```


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Code Correctness: Constructor Invokes Overridable Function	Low

Package: com.typesafe.sslconfig.akka

src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala, line 87 (Code Correctness: Constructor Invokes Overridable Function) **Low**

```
90 }
```

src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala, line 89 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: mkLogger
Enclosing Method: AkkaSSLConfig()
File: src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala:89
Taint Flags:

```
86 // break out the static methods as much as we can...
87 val keyManagerFactory = buildKeyManagerFactory(config)
88 val trustManagerFactory = buildTrustManagerFactory(config)
89 new ConfigSSLContextBuilder(mkLogger, config, keyManagerFactory, trustManagerFactory).build()
90 }
91
92 // protocols!
```

src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala, line 95 (Code Correctness: Constructor Invokes Overridable Function) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: configureProtocols
Enclosing Method: AkkaSSLConfig()
File: src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala:95
Taint Flags:

```
92 // protocols!
93 val defaultParams = sslContext.getDefaultSSLParameters
94 val defaultProtocols = defaultParams.getProtocols
95 val protocols = configureProtocols(defaultProtocols, config)
96
97 // ciphers!
98 val defaultCiphers = defaultParams.getCipherSuites
```


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Code Correctness: Constructor Invokes Overridable Function — Low

Package: com.typesafe.sslconfig.akka

src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala, line 70 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: buildHostnameVerifier
Enclosing Method: AkkaSSLConfig()
File: src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala:70
Taint Flags:

```
67 def convertSettings(f: java.util.function.Function[SSLConfigSettings, SSLConfigSettings]): AkkaSSLConfig =
68 new AkkaSSLConfig(system, f.apply(config))
69
70 val hostnameVerifier = buildHostnameVerifier(config)
71
72 /**
73 * INTERNAL API
```

src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala, line 88 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: buildTrustManagerFactory
Enclosing Method: AkkaSSLConfig()
File: src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala:88
Taint Flags:

```
85 } else {
86 // break out the static methods as much as we can...
87 val keyManagerFactory = buildKeyManagerFactory(config)
88 val trustManagerFactory = buildTrustManagerFactory(config)
89 new ConfigSSLContextBuilder(mkLogger, config, keyManagerFactory, trustManagerFactory).build()
90 }
91
```

src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala, line 103 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: com.typesafe.sslconfig.akka

src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala, line 103 (Code Correctness: Constructor Invokes Overridable Function) — Low

Sink Details

Sink: FunctionCall: looseDisableSNI
Enclosing Method: AkkaSSLConfig()
File: src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala:103
Taint Flags:

```
100
101 // apply "loose" settings
102 // !! SNI!
103 looseDisableSNI(defaultParams)
104
105 new DefaultSSLEngineConfigurator(config, protocols, cipherSuites)
106 }
```

src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala, line 45 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: log
Enclosing Method: AkkaSSLConfig()
File: src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala:45
Taint Flags:

```
42 private val mkLogger = new AkkaLoggerFactory(system)
43
44 private val log = Logging(system, classOf[AkkaSSLConfig])
45 log.debug("Initializing AkkaSSLConfig extension...")
46
47 /** Can be used to modify the underlying config, most typically used to change a few values in the default config */
48 def withSettings(c: SSLConfigSettings): AkkaSSLConfig =
```

src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala, line 83 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: log
Enclosing Method: AkkaSSLConfig()

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Code Correctness: Constructor Invokes Overridable Function — Low

Package: com.typesafe.sslconfig.akka

src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala, line 83 (Code Correctness: Constructor Invokes Overridable Function) — Low

File: src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala:83
Taint Flags:

```
80
81  val sslEngineConfigurator = {
82  val sslContext = if (config.default) {
83  log.info("ssl-config.default is true, using the JDK's default SSLContext")
84  SSLContext.getDefault
85  } else {
86  // break out the static methods as much as we can...
```

src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala, line 99 (Code Correctness: Constructor Invokes Overridable Function) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: configureCipherSuites
Enclosing Method: AkkaSSLConfig()
File: src/main/scala/com/typesafe/sslconfig/akka/AkkaSSLConfig.scala:99
Taint Flags:

```
96
97  // ciphers!
98  val defaultCiphers = defaultParams.getCipherSuites
99  val cipherSuites = configureCipherSuites(defaultCiphers, config)
100
101  // apply "loose" settings
102  // !! SNI!
```


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Code Correctness: Erroneous String Compare (8 issues)

Abstract

Strings should be compared with the `equals()` method, not `==` or `!=`.

Explanation

This program uses `==` or `!=` to compare two strings for equality, which compares two objects for equality, not their values. Chances are good that the two references will never be equal. **Example 1:** The following branch will never be taken.

```
  if (args[0] == STRING_CONSTANT) {
      logger.info("miracle");
  }
```

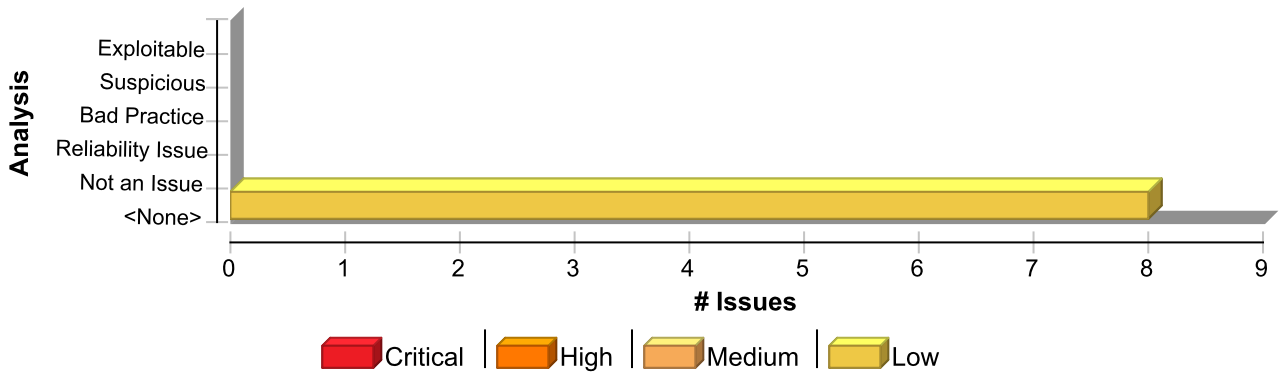
The `==` and `!=` operators will only behave as expected when they are used to compare strings contained in objects that are equal. The most common way for this to occur is for the strings to be interned, whereby the strings are added to a pool of objects maintained by the `String` class. Once a string is interned, all uses of that string will use the same object and equality operators will behave as expected. All string literals and string-valued constants are interned automatically. Other strings can be interned manually be calling `String.intern()`, which will return a canonical instance of the current string, creating one if necessary.

Recommendation

Use `equals()` to compare strings. **Example 2:** The code in `Example 1` could be rewritten in the following way:

```
  if (STRING_CONSTANT.equals(args[0])) {
      logger.info("could happen");
  }
```

Issue Summary



Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Code Correctness: Erroneous String Compare	8	0	0	8
Total	**8**	**0**	**0**	**8**

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Code Correctness: Erroneous String Compare	Low

Package: akka.stream

src/main/scala/akka/stream/ActorMaterializer.scala, line 870 (Code Correctness: Erroneous String Compare)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Operation
Enclosing Method: apply()
File: src/main/scala/akka/stream/ActorMaterializer.scala:870
Taint Flags:

```
867 */
868 def apply(config: Config): StreamSubscriptionTimeoutSettings = {
869 val c = config.getConfig("subscription-timeout")
870 StreamSubscriptionTimeoutSettings(mode = toRootLowerCase(c.getString("mode")) match {
871 case "no" | "off" | "false" | "noop" => NoopTermination
872 case "warn" => WarnTermination
873 case "cancel" => CancelTermination
```

src/main/scala/akka/stream/ActorMaterializer.scala, line 870 (Code Correctness: Erroneous String Compare)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Operation
Enclosing Method: apply()
File: src/main/scala/akka/stream/ActorMaterializer.scala:870
Taint Flags:

```
867 */
868 def apply(config: Config): StreamSubscriptionTimeoutSettings = {
869 val c = config.getConfig("subscription-timeout")
870 StreamSubscriptionTimeoutSettings(mode = toRootLowerCase(c.getString("mode")) match {
871 case "no" | "off" | "false" | "noop" => NoopTermination
872 case "warn" => WarnTermination
873 case "cancel" => CancelTermination
```

src/main/scala/akka/stream/ActorMaterializer.scala, line 870 (Code Correctness: Erroneous String Compare)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Erroneous String Compare — Low

Package: akka.stream

src/main/scala/akka/stream/ActorMaterializer.scala, line 870 (Code Correctness: Erroneous String Compare) — Low

Sink Details

Sink: Operation
Enclosing Method: apply()
File: src/main/scala/akka/stream/ActorMaterializer.scala:870
Taint Flags:

```
867 */
868 def apply(config: Config): StreamSubscriptionTimeoutSettings = {
869 val c = config.getConfig("subscription-timeout")
870 StreamSubscriptionTimeoutSettings(mode = toRootLowerCase(c.getString("mode")) match {
871 case "no" | "off" | "false" | "noop" => NoopTermination
872 case "warn" => WarnTermination
873 case "cancel" => CancelTermination
```

src/main/scala/akka/stream/ActorMaterializer.scala, line 870 (Code Correctness: Erroneous String Compare) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Operation
Enclosing Method: apply()
File: src/main/scala/akka/stream/ActorMaterializer.scala:870
Taint Flags:

```
867 */
868 def apply(config: Config): StreamSubscriptionTimeoutSettings = {
869 val c = config.getConfig("subscription-timeout")
870 StreamSubscriptionTimeoutSettings(mode = toRootLowerCase(c.getString("mode")) match {
871 case "no" | "off" | "false" | "noop" => NoopTermination
872 case "warn" => WarnTermination
873 case "cancel" => CancelTermination
```

src/main/scala/akka/stream/ActorMaterializer.scala, line 870 (Code Correctness: Erroneous String Compare) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Operation
Enclosing Method: apply()

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Code Correctness: Erroneous String Compare — Low

Package: akka.stream

src/main/scala/akka/stream/ActorMaterializer.scala, line 870 (Code Correctness: Erroneous String Compare) — Low

File: src/main/scala/akka/stream/ActorMaterializer.scala:870
Taint Flags:

```
867 */
868 def apply(config: Config): StreamSubscriptionTimeoutSettings = {
869 val c = config.getConfig("subscription-timeout")
870 StreamSubscriptionTimeoutSettings(mode = toRootLowerCase(c.getString("mode")) match {
871 case "no" | "off" | "false" | "noop" => NoopTermination
872 case "warn" => WarnTermination
873 case "cancel" => CancelTermination
```

src/main/scala/akka/stream/ActorMaterializer.scala, line 870 (Code Correctness: Erroneous String Compare) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Operation
Enclosing Method: apply()
File: src/main/scala/akka/stream/ActorMaterializer.scala:870
Taint Flags:

```
867 */
868 def apply(config: Config): StreamSubscriptionTimeoutSettings = {
869 val c = config.getConfig("subscription-timeout")
870 StreamSubscriptionTimeoutSettings(mode = toRootLowerCase(c.getString("mode")) match {
871 case "no" | "off" | "false" | "noop" => NoopTermination
872 case "warn" => WarnTermination
873 case "cancel" => CancelTermination
```

Package: akka.stream.impl

src/main/scala/akka/stream/impl/PhasedFusingActorMaterializer.scala, line 621 (Code Correctness: Erroneous String Compare) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Operation
Enclosing Method: actorOf()
File: src/main/scala/akka/stream/impl/PhasedFusingActorMaterializer.scala:621
Taint Flags:

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Code Correctness: Erroneous String Compare — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/PhasedFusingActorMaterializer.scala, line 621 (Code Correctness: Erroneous String Compare) — Low

```
618 */
619 @nowarn("msg=deprecated")
620 @InternalApi private[akka] override def actorOf(context: MaterializationContext, props: Props): ActorRef = {
621 val effectiveProps = props.dispatcher match {
622 case Dispatchers.DefaultDispatcherId =>
623 props.withDispatcher(context.effectiveAttributes.mandatoryAttribute[ActorAttributes.Dispatcher].dispatcher)
624 case _ => props
```

src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala, line 52 (Code Correctness: Erroneous String Compare) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Operation
Enclosing Method: actorOf()
File: src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala:52
Taint Flags:

```
49 * INTERNAL API
50 */
51 @InternalApi private[akka] override def actorOf(context: MaterializationContext, props: Props): ActorRef = {
52 val effectiveProps = props.dispatcher match {
53 case Dispatchers.DefaultDispatcherId =>
54 // the caller said to use the default dispatcher, but that can been trumped by the dispatcher attribute
55 props.withDispatcher(context.effectiveAttributes.mandatoryAttribute[ActorAttributes.Dispatcher].dispatcher)
```


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Code Correctness: Non-Static Inner Class Implements Serializable (87 issues)

Abstract

Inner classes implementing `java.io.Serializable` may cause problems and leak information from the outer class.

Explanation

Serialization of inner classes lead to serialization of the outer class, therefore possibly leaking information or leading to a runtime error if the outer class is not serializable. As well as this, serializing inner classes may cause platform dependencies since the Java compiler creates synthetic fields in order to implement inner classes, but these are implementation dependent, and may vary from compiler to compiler. **Example 1:** The following code allows serialization of an inner class.

```
...
class User implements Serializable {
  private int accessLevel;
  class Registrator implements Serializable {
    ...
  }
}
```

In `Example 1`, when the inner class `Registrator` is serialized, it will also serialize the field `accessLevel` from the outer class `User`.

Recommendation

When using inner classes, they should not be serialized, or they should be changed to static-nested classes, since these do not have the drawbacks that non-static inner classes have when serialized. When a nested class is static it inherently has no association with instance variables (including those of the outer class), and would not cause serialization of the outer class. **Example 2:** The following code changes the example in `Example 1`, by stopping the inner class from implementing `java.io.Serializable`.

```
...
class User implements Serializable {
  private int accessLevel;
  class Registrator {
    ...
  }
}
```

Example 2: The following code changes the example in `Example 1`, by making the inner class into a static-nested class.

```
...
class User implements Serializable {
  private int accessLevel;
  static class Registrator implements Serializable {
    ...
  }
}
```

Issue Summary

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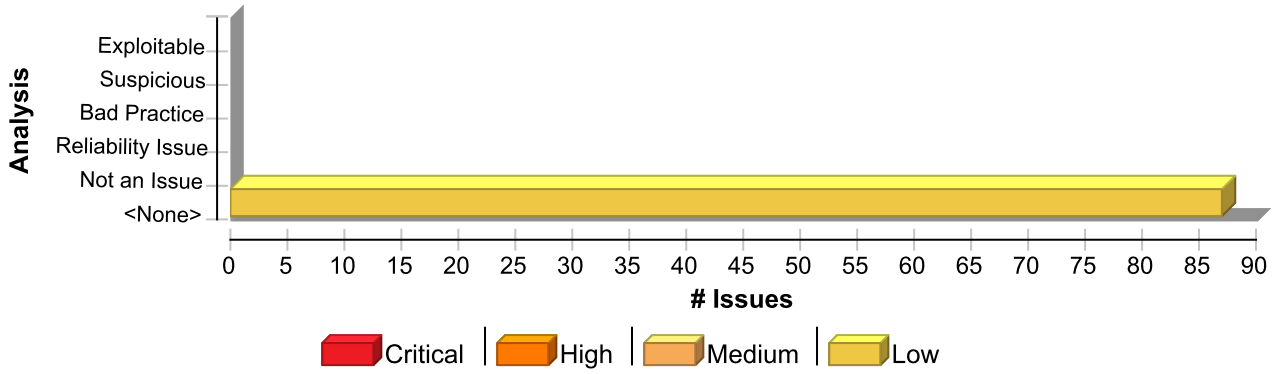

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Code Correctness: Non-Static Inner Class Implements Serializable	87	0	0	87
Total	**87**	**0**	**0**	**87**

Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream

src/main/scala/akka/stream/Attributes.scala, line 458 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: Attributes$CancellationStrategy$AfterDelay
File: src/main/scala/akka/stream/Attributes.scala:458
Taint Flags:

```
455 * but you might still be able observe a long delay at the ultimate source.
456 */
457 @ApiMayChange
458 final case class AfterDelay(delay: FiniteDuration, strategy: Strategy) extends Strategy
459
460 /**
461 * Java API
```

src/main/scala/akka/stream/Attributes.scala, line 345 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: Attributes$LogLevels

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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream

src/main/scala/akka/stream/Attributes.scala, line 345 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

File: src/main/scala/akka/stream/Attributes.scala:345
Taint Flags:

```
342 */
343 final case class InputBuffer(initial: Int, max: Int) extends MandatoryAttribute
344
345 final case class LogLevels(onElement: Logging.LogLevel, onFinish: Logging.LogLevel, onFailure: Logging.LogLevel)
346 extends Attribute
347 case object AsyncBoundary extends Attribute
348
```

src/main/scala/akka/stream/FanOutShape.scala, line 20 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: FanOutShape$Ports
File: src/main/scala/akka/stream/FanOutShape.scala:20
Taint Flags:

```
17 override def inlet: Inlet[I] = Inlet(s"$name.in")
18 override def outlets: immutable.Seq[Outlet[_]] = Nil
19 }
20 final case class Ports[I](override val inlet: Inlet[I], override val outlets: immutable.Seq[Outlet[_]])
21 extends Init[I] {
22 override def name: String = "FanOut"
23 }
```

src/main/scala/akka/stream/QueueOfferResult.scala, line 60 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: QueueOfferResult$Failure
File: src/main/scala/akka/stream/QueueOfferResult.scala:60
Taint Flags:

```
57 * Type is used to indicate that stream is failed before or during call to the stream
58 * @param cause - exception that stream failed with
59 */
```


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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream

src/main/scala/akka/stream/QueueOfferResult.scala, line 60 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

```
60 final case class Failure(cause: Throwable) extends QueueCompletionResult {
61 override def isEnqueued: Boolean = false
62 }
63
```

src/main/scala/akka/stream/Attributes.scala, line 358 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: Attributes$CancellationStrategy
File: src/main/scala/akka/stream/Attributes.scala:358
Taint Flags:

```
355 * the shutdown procedure should be done precisely.
356 */
357 @ApiMayChange
358 final case class CancellationStrategy(strategy: CancellationStrategy.Strategy) extends MandatoryAttribute
359 @ApiMayChange
360 object CancellationStrategy {
361 private[stream] val Default: CancellationStrategy = CancellationStrategy(PropagateFailure)
```

src/main/scala/akka/stream/Attributes.scala, line 360 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: Attributes$CancellationStrategy
File: src/main/scala/akka/stream/Attributes.scala:360
Taint Flags:

```
357 @ApiMayChange
358 final case class CancellationStrategy(strategy: CancellationStrategy.Strategy) extends MandatoryAttribute
359 @ApiMayChange
360 object CancellationStrategy {
361 private[stream] val Default: CancellationStrategy = CancellationStrategy(PropagateFailure)
362
363 sealed trait Strategy
```


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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream

src/main/scala/akka/stream/Attributes.scala, line 306 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: Attributes$Name
File: src/main/scala/akka/stream/Attributes.scala:306
Taint Flags:

```
303 @DoNotInherit
304 sealed trait MandatoryAttribute extends Attribute
305
306 final case class Name(n: String) extends Attribute
307
308 /**
309 * Attribute that contains the source location of for example a lambda passed to an operator, useful for example
```

src/main/scala/akka/stream/Attributes.scala, line 343 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: Attributes$InputBuffer
File: src/main/scala/akka/stream/Attributes.scala:343
Taint Flags:

```
340 *
341 * Use factory method [[Attributes#inputBuffer]] to create instances.
342 */
343 final case class InputBuffer(initial: Int, max: Int) extends MandatoryAttribute
344
345 final case class LogLevels(onElement: Logging.LogLevel, onFinish: Logging.LogLevel, onFailure: Logging.LogLevel)
346 extends Attribute
```

src/main/scala/akka/stream/FanInShape.scala, line 20 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream

src/main/scala/akka/stream/FanInShape.scala, line 20 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Sink: Class: FanInShape$Ports
File: src/main/scala/akka/stream/FanInShape.scala:20
Taint Flags:

```
17 override def outlet: Outlet[O] = Outlet(s"$name.out")
18 override def inlets: immutable.Seq[Inlet[_]] = Nil
19 }
20 final case class Ports[O](override val outlet: Outlet[O], override val inlets: immutable.Seq[Inlet[_]])
21 extends Init[O] {
22 override def name: String = "FanIn"
23 }
```

src/main/scala/akka/stream/FanInShape.scala, line 16 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: FanInShape$Name
File: src/main/scala/akka/stream/FanInShape.scala:16
Taint Flags:

```
13 def inlets: immutable.Seq[Inlet[_]]
14 def name: String
15 }
16 final case class Name[O](override val name: String) extends Init[O] {
17 override def outlet: Outlet[O] = Outlet(s"$name.out")
18 override def inlets: immutable.Seq[Inlet[_]] = Nil
19 }
```

src/main/scala/akka/stream/SubscriptionWithCancelException.scala, line 32 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: SubscriptionWithCancelException$NonFailureCancellation
File: src/main/scala/akka/stream/SubscriptionWithCancelException.scala:32
Taint Flags:

```
29 * Not for user extension
30 */
```


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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream

src/main/scala/akka/stream/SubscriptionWithCancelException.scala, line 32 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

```
31 @DoNotInherit
32 sealed abstract class NonFailureCancellation extends RuntimeException with NoStackTrace
33 case object NoMoreElementsNeeded extends NonFailureCancellation
34 case object StageWasCompleted extends NonFailureCancellation
35 }
```

src/main/scala/akka/stream/FanOutShape.scala, line 16 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: FanOutShape$Name
File: src/main/scala/akka/stream/FanOutShape.scala:16
Taint Flags:

```
13 def outlets: immutable.Seq[Outlet[_]]
14 def name: String
15 }
16 final case class Name[I](override val name: String) extends Init[I] {
17 override def inlet: Inlet[I] = Inlet(s"$name.in")
18 override def outlets: immutable.Seq[Outlet[_]] = Nil
19 }
```

Package: akka.stream.impl

src/main/scala/akka/stream/impl/StreamLayout.scala, line 380 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: VirtualProcessor$WrappedSubscription$Buffering
File: src/main/scala/akka/stream/impl/StreamLayout.scala:380
Taint Flags:

```
377 object WrappedSubscription {
378 sealed trait SubscriptionState { def demand: Long }
379 case object PassThrough extends SubscriptionState { override def demand: Long = 0 }
380 case class Buffering(demand: Long) extends SubscriptionState
381
382 val NoBufferedDemand = Buffering(0)
```


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Code Correctness: Non-Static Inner Class Implements Serializable	Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/StreamLayout.scala, line 380 (Code Correctness: Non-Static Inner Class Implements Serializable) **Low**

```
383 }
```

src/main/scala/akka/stream/impl/FanIn.scala, line 26 (Code Correctness: Non-Static Inner Class Implements Serializable) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: FanIn$OnSubscribe
File: src/main/scala/akka/stream/impl/FanIn.scala:26
Taint Flags:

```
23 with NoSerializationVerificationNeeded
24 final case class OnComplete(id: Int) extends DeadLetterSuppression with NoSerializationVerificationNeeded
25 final case class OnNext(id: Int, e: Any) extends DeadLetterSuppression with NoSerializationVerificationNeeded
26 final case class OnSubscribe(id: Int, subscription: Subscription)
27 extends DeadLetterSuppression
28 with NoSerializationVerificationNeeded
29
```

src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala, line 201 (Code Correctness: Non-Static Inner Class Implements Serializable) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: StreamSupervisor$ChildrenSnapshots
File: src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala:201
Taint Flags:

```
198 with NoSerializationVerificationNeeded
199
200 final case class GetChildrenSnapshots(timeout: FiniteDuration)
201 final case class ChildrenSnapshots(seq: immutable.Seq[StreamSnapshot])
202 extends DeadLetterSuppression
203 with NoSerializationVerificationNeeded
204 private final case class CollectorCompleted(ref: ActorRef)
```

src/main/scala/akka/stream/impl/ActorSubscriberMessage.scala, line 30 (Code Correctness: Non-Static Inner Class Implements Serializable) **Low**

Issue Details

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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/ActorSubscriberMessage.scala, line 30 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: ActorSubscriberMessage$OnSubscribe
File: src/main/scala/akka/stream/impl/ActorSubscriberMessage.scala:30
Taint Flags:

```
27
28 // OnSubscribe doesn't extend ActorSubscriberMessage by design, because `OnNext`, `OnError` and `OnComplete`
29 // are used together, with the same `seal`, but not always `OnSubscribe`.
30 final case class OnSubscribe(subscription: Subscription)
31 extends DeadLetterSuppression
32 with NoSerializationVerificationNeeded
33
```

src/main/scala/akka/stream/impl/Sinks.scala, line 284 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: QueueSink$Pull
File: src/main/scala/akka/stream/impl/Sinks.scala:284
Taint Flags:

```
281 */
282 @InternalApi private[akka] object QueueSink {
283 sealed trait Output[+T]
284 final case class Pull[T](promise: Promise[Option[T]]) extends Output[T]
285 case object Cancel extends Output[Nothing]
286 }
287
```

src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala, line 196 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala, line 196 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Sink: Class: StreamSupervisor$Materialize
File: src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala:196
Taint Flags:

```
193 private val actorName = SeqActorName(baseName)
194 def nextName(): String = actorName.next()
195
196 final case class Materialize(props: Props, name: String)
197 extends DeadLetterSuppression
198 with NoSerializationVerificationNeeded
199
```

src/main/scala/akka/stream/impl/FanOut.scala, line 23 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: FanOut$SubstreamRequestMore
File: src/main/scala/akka/stream/impl/FanOut.scala:23
Taint Flags:

```
20 */
21 @InternalApi private[akka] object FanOut {
22
23 final case class SubstreamRequestMore(id: Int, demand: Long)
24 extends DeadLetterSuppression
25 with NoSerializationVerificationNeeded
26 final case class SubstreamCancel(id: Int) extends DeadLetterSuppression with NoSerializationVerificationNeeded
```

src/main/scala/akka/stream/impl/FanOut.scala, line 27 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: FanOut$SubstreamSubscribePending
File: src/main/scala/akka/stream/impl/FanOut.scala:27
Taint Flags:

```
24 extends DeadLetterSuppression
25 with NoSerializationVerificationNeeded
```


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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/FanOut.scala, line 27 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

```
26 final case class SubstreamCancel(id: Int) extends DeadLetterSuppression with NoSerializationVerificationNeeded
27 final case class SubstreamSubscribePending(id: Int)
28 extends DeadLetterSuppression
29 with NoSerializationVerificationNeeded
30
```

src/main/scala/akka/stream/impl/StreamLayout.scala, line 52 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: VirtualProcessor$Both
File: src/main/scala/akka/stream/impl/StreamLayout.scala:52
Taint Flags:

```
49 case object Inert {
50 val subscriber = new CancellingSubscriber[Any]
51 }
52 final case class Both(subscriber: Subscriber[Any]) extends HasActualSubscriber
53
54 final case class Establishing(
55 subscriber: Subscriber[Any],
```

src/main/scala/akka/stream/impl/QueueSource.scala, line 22 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: QueueSource$Offer
File: src/main/scala/akka/stream/impl/QueueSource.scala:22
Taint Flags:

```
19 @InternalApi private[akka] object QueueSource {
20
21 sealed trait Input[+T]
22 final case class Offer[+T](elem: T, promise: Promise[QueueOfferResult]) extends Input[T]
23 case object Completion extends Input[Nothing]
24 final case class Failure(ex: Throwable) extends Input[Nothing]
25
```


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Code Correctness: Non-Static Inner Class Implements Serializable	Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/QueueSource.scala, line 22 (Code Correctness: Non-Static Inner Class Implements Serializable)	Low

src/main/scala/akka/stream/impl/SubscriberManagement.scala, line 29 (Code Correctness: Non-Static Inner Class Implements Serializable)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: SubscriberManagement$ErrorCompleted
File: src/main/scala/akka/stream/impl/SubscriberManagement.scala:29
Taint Flags:

```
26 def apply[T](subscriber: Subscriber[T]): Unit = tryOnComplete(subscriber)
27 }
28
29 final case class ErrorCompleted(cause: Throwable) extends EndOfStream {
30 import ReactiveStreamsCompliance._
31 def apply[T](subscriber: Subscriber[T]): Unit = tryOnError(subscriber, cause)
32 }
```

src/main/scala/akka/stream/impl/MaterializerGuardian.scala, line 31 (Code Correctness: Non-Static Inner Class Implements Serializable)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: MaterializerGuardian$LegacyStartMaterializer
File: src/main/scala/akka/stream/impl/MaterializerGuardian.scala:31
Taint Flags:

```
28
29 // this is available to keep backwards compatibility with ActorMaterializer and should
30 // be removed together with ActorMaterialixer in Akka 2.7
31 final case class LegacyStartMaterializer(namePrefix: String, settings: ActorMaterializerSettings)
32
33 def props(systemMaterializer: Promise[Materializer], materializerSettings: ActorMaterializerSettings) =
34 Props(new MaterializerGuardian(systemMaterializer, materializerSettings))
```

src/main/scala/akka/stream/impl/Buffers.scala, line 221 (Code Correctness: Non-Static Inner Class Implements Serializable)	Low

Issue Details

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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/Buffers.scala, line 221 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: BoundedBuffer$DynamicQueue
File: src/main/scala/akka/stream/impl/Buffers.scala:221
Taint Flags:

```
218 }
219 }
220
221 private final class DynamicQueue[T](override val capacity: Int) extends ju.LinkedList[T] with Buffer[T] {
222 override def used = size
223 override def isFull = size == capacity
224 override def nonEmpty = !isEmpty()
```

src/main/scala/akka/stream/impl/ActorSubscriberMessage.scala, line 24 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: ActorSubscriberMessage$OnNext
File: src/main/scala/akka/stream/impl/ActorSubscriberMessage.scala:24
Taint Flags:

```
21 * INTERNAL API
22 */
23 @InternalApi private[akka] object ActorSubscriberMessage {
24 final case class OnNext(element: Any) extends ActorSubscriberMessage
25 final case class OnError(cause: Throwable) extends ActorSubscriberMessage
26 case object OnComplete extends ActorSubscriberMessage
27
```

src/main/scala/akka/stream/impl/StreamLayout.scala, line 54 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/StreamLayout.scala, line 54 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Sink: Class: VirtualProcessor$Establishing
File: src/main/scala/akka/stream/impl/StreamLayout.scala:54
Taint Flags:

```
51 }
52 final case class Both(subscriber: Subscriber[Any]) extends HasActualSubscriber
53
54 final case class Establishing(
55 subscriber: Subscriber[Any],
56 onCompleteBuffered: Boolean = false,
57 onErrorBuffered: OptionVal[Throwable] = OptionVal.None)
```

src/main/scala/akka/stream/impl/FanOut.scala, line 41 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: FanOut$ExposedPublishers
File: src/main/scala/akka/stream/impl/FanOut.scala:41
Taint Flags:

```
38 override def createSubscription(): Subscription = new SubstreamSubscription(actor, id)
39 }
40
41 final case class ExposedPublishers(publishers: immutable.Seq[ActorPublisher[Any]])
42 extends DeadLetterSuppression
43 with NoSerializationVerificationNeeded
44
```

src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala, line 204 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: StreamSupervisor$CollectorCompleted
File: src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala:204
Taint Flags:

```
201 final case class ChildrenSnapshots(seq: immutable.Seq[StreamSnapshot])
202 extends DeadLetterSuppression
```


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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala, line 204 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

```
203  with NoSerializationVerificationNeeded
204  private final case class CollectorCompleted(ref: ActorRef)
205
206  /** Testing purpose */
207  case object GetChildren
```

src/main/scala/akka/stream/impl/FanIn.scala, line 30 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: FanIn$SubInput
File: src/main/scala/akka/stream/impl/FanIn.scala:30
Taint Flags:

```
27  extends DeadLetterSuppression
28  with NoSerializationVerificationNeeded
29
30  final case class SubInput[T](impl: ActorRef, id: Int) extends Subscriber[T] {
31  override def onError(cause: Throwable): Unit = {
32  ReactiveStreamsCompliance.requireNonNullException(cause)
33  impl ! OnError(id, cause)
```

src/main/scala/akka/stream/impl/FanOut.scala, line 26 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: FanOut$SubstreamCancel
File: src/main/scala/akka/stream/impl/FanOut.scala:26
Taint Flags:

```
23  final case class SubstreamRequestMore(id: Int, demand: Long)
24  extends DeadLetterSuppression
25  with NoSerializationVerificationNeeded
26  final case class SubstreamCancel(id: Int) extends DeadLetterSuppression with NoSerializationVerificationNeeded
27  final case class SubstreamSubscribePending(id: Int)
28  extends DeadLetterSuppression
29  with NoSerializationVerificationNeeded
```


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Code Correctness: Non-Static Inner Class Implements Serializable	Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/FanOut.scala, line 26 (Code Correctness: Non-Static Inner Class Implements Serializable)	Low

src/main/scala/akka/stream/impl/QueueSource.scala, line 24 (Code Correctness: Non-Static Inner Class Implements Serializable)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: QueueSource$Failure
File: src/main/scala/akka/stream/impl/QueueSource.scala:24
Taint Flags:

```
21 sealed trait Input[+T]
22 final case class Offer[+T](elem: T, promise: Promise[QueueOfferResult]) extends Input[T]
23 case object Completion extends Input[Nothing]
24 final case class Failure(ex: Throwable) extends Input[Nothing]
25
26 }
27
```

src/main/scala/akka/stream/impl/BoundedSourceQueue.scala, line 23 (Code Correctness: Non-Static Inner Class Implements Serializable)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: BoundedSourceQueueStage$Done
File: src/main/scala/akka/stream/impl/BoundedSourceQueue.scala:23
Taint Flags:

```
20 sealed trait State
21 case object NeedsActivation extends State
22 case object Running extends State
23 case class Done(result: QueueCompletionResult) extends State
24 }
25
26 /**
```

src/main/scala/akka/stream/impl/ActorPublisher.scala, line 24 (Code Correctness: Non-Static Inner Class Implements Serializable)	Low

Issue Details

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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/ActorPublisher.scala, line 24 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: ActorPublisher$NormalShutdownException
File: src/main/scala/akka/stream/impl/ActorPublisher.scala:24
Taint Flags:

```
21 */
22 @InternalApi private[akka] object ActorPublisher {
23 val NormalShutdownReasonMessage = "Cannot subscribe to shut-down Publisher"
24 class NormalShutdownException extends IllegalStateException(NormalShutdownReasonMessage) with NoStackTrace
25 val NormalShutdownReason: Throwable = new NormalShutdownException
26 val SomeNormalShutdownReason: Some[Throwable] = Some(NormalShutdownReason)
27
```

src/main/scala/akka/stream/impl/FanIn.scala, line 24 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: FanIn$OnComplete
File: src/main/scala/akka/stream/impl/FanIn.scala:24
Taint Flags:

```
21 final case class OnError(id: Int, cause: Throwable)
22 extends DeadLetterSuppression
23 with NoSerializationVerificationNeeded
24 final case class OnComplete(id: Int) extends DeadLetterSuppression with NoSerializationVerificationNeeded
25 final case class OnNext(id: Int, e: Any) extends DeadLetterSuppression with NoSerializationVerificationNeeded
26 final case class OnSubscribe(id: Int, subscription: Subscription)
27 extends DeadLetterSuppression
```

src/main/scala/akka/stream/impl/ActorSubscriberMessage.scala, line 25 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/ActorSubscriberMessage.scala, line 25 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Sink: Class: ActorSubscriberMessage$OnError
File: src/main/scala/akka/stream/impl/ActorSubscriberMessage.scala:25
Taint Flags:

```
22 */
23 @InternalApi private[akka] object ActorSubscriberMessage {
24 final case class OnNext(element: Any) extends ActorSubscriberMessage
25 final case class OnError(cause: Throwable) extends ActorSubscriberMessage
26 case object OnComplete extends ActorSubscriberMessage
27
28 // OnSubscribe doesn't extend ActorSubscriberMessage by design, because `OnNext`, `OnError` and `OnComplete`
```

src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala, line 200 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: StreamSupervisor$GetChildrenSnapshots
File: src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala:200
Taint Flags:

```
197 extends DeadLetterSuppression
198 with NoSerializationVerificationNeeded
199
200 final case class GetChildrenSnapshots(timeout: FiniteDuration)
201 final case class ChildrenSnapshots(seq: immutable.Seq[StreamSnapshot])
202 extends DeadLetterSuppression
203 with NoSerializationVerificationNeeded
```

src/main/scala/akka/stream/impl/FanIn.scala, line 25 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: FanIn$OnNext
File: src/main/scala/akka/stream/impl/FanIn.scala:25
Taint Flags:

```
22 extends DeadLetterSuppression
23 with NoSerializationVerificationNeeded
```


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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/FanIn.scala, line 25 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

```
24 final case class OnComplete(id: Int) extends DeadLetterSuppression with NoSerializationVerificationNeeded
25 final case class OnNext(id: Int, e: Any) extends DeadLetterSuppression with NoSerializationVerificationNeeded
26 final case class OnSubscribe(id: Int, subscription: Subscription)
27 extends DeadLetterSuppression
28 with NoSerializationVerificationNeeded
```

src/main/scala/akka/stream/impl/StreamLayout.scala, line 386 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: VirtualProcessor$WrappedSubscription
File: src/main/scala/akka/stream/impl/StreamLayout.scala:386
Taint Flags:

```
383 }
384
385 // Extdending AtomicReference to make the hot memory location share the same cache line with the Subscription
386 private class WrappedSubscription(real: Subscription)
387 extends AtomicReference[WrappedSubscription.SubscriptionState](WrappedSubscription.NoBufferedDemand)
388 with Subscription {
389 import WrappedSubscription._
```

src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala, line 210 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: StreamSupervisor$Children
File: src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala:210
Taint Flags:

```
207 case object GetChildren
208
209 /** Testing purpose */
210 final case class Children(children: Set[ActorRef])
211
212 /** Testing purpose */
213 case object StopChildren
```


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Code Correctness: Non-Static Inner Class Implements Serializable	Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/ActorMaterializerImpl.scala, line 210 (Code Correctness: Non-Static Inner Class Implements Serializable)	Low

src/main/scala/akka/stream/impl/MaterializerGuardian.scala, line 27 (Code Correctness: Non-Static Inner Class Implements Serializable)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: MaterializerGuardian$MaterializerStarted
File: src/main/scala/akka/stream/impl/MaterializerGuardian.scala:27
Taint Flags:

```
24 private[akka] object MaterializerGuardian {
25
26  case object StartMaterializer
27  final case class MaterializerStarted(materializer: Materializer)
28
29  // this is available to keep backwards compatibility with ActorMaterializer and should
30  // be removed together with ActorMaterialixer in Akka 2.7
```

src/main/scala/akka/stream/impl/FanIn.scala, line 21 (Code Correctness: Non-Static Inner Class Implements Serializable)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: FanIn$OnError
File: src/main/scala/akka/stream/impl/FanIn.scala:21
Taint Flags:

```
18  */
19 @InternalApi private[akka] object FanIn {
20
21  final case class OnError(id: Int, cause: Throwable)
22  extends DeadLetterSuppression
23  with NoSerializationVerificationNeeded
24  final case class OnComplete(id: Int) extends DeadLetterSuppression with NoSerializationVerificationNeeded
```


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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala, line 279 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: ActorGraphInterpreter$SubscribePending
File: src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala:279
Taint Flags:

```
276 s"BatchingActorInputBoundary(forPort=$internalPortName, fill=$inputBufferElements/$size, completed=$upstreamCompleted, canceled=$downstreamCanceled)"
277 }
278
279 final case class SubscribePending(boundary: ActorOutputBoundary) extends SimpleBoundaryEvent {
280 override def execute(): Unit = boundary.subscribePending()
281
282 override def shell: GraphInterpreterShell = boundary.shell
```

src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala, line 664 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: SubSink$CancelScheduledBeforeMaterialization
File: src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala:664
Taint Flags:

```
661 case object RequestOneScheduledBeforeMaterialization extends CommandScheduledBeforeMaterialization(RequestOne)
662
663 /** A Cancel command was scheduled before materialization */
664 case class CancelScheduledBeforeMaterialization(cause: Throwable)
665 extends CommandScheduledBeforeMaterialization(Cancel(cause))
666
667 /** Steady state: sink has been materialized, commands can be delivered through the callback */
```

src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala, line 673 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala, line 673 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Sink Details

Sink: Class: SubSink$Cancel
File: src/main/scala/akka/stream/impl/fusing/StreamOfStreams.scala:673
Taint Flags:

```
670
671 sealed trait Command
672 case object RequestOne extends Command
673 case class Cancel(cause: Throwable) extends Command
674 }
675
676 /**
```

src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala, line 506 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: GraphInterpreterShell$AsyncInput
File: src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala:506
Taint Flags:

```
503 * if the event isn't ever processed the promise (the operator stops) is failed elsewhere
504 */
505 // can't be final because of SI-4440
506 case class AsyncInput(
507 shell: GraphInterpreterShell,
508 logic: GraphStageLogic,
509 evt: Any,
```

src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala, line 289 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: ActorGraphInterpreter$RequestMore
File: src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala:289
Taint Flags:

```
286 override def cancel(): Unit = ()
```


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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala, line 289 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

```
287 }
288
289 final case class RequestMore(boundary: ActorOutputBoundary, demand: Long) extends SimpleBoundaryEvent {
290 override def execute(): Unit = {
291 if (GraphInterpreter.Debug)
292 println(s"${boundary.shell.interpreter.Name} request $demand port=${boundary.internalPortName}")
```

src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala, line 93 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: ActorGraphInterpreter$BatchingActorInputBoundary$OnComplete
File: src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala:93
Taint Flags:

```
90 override def cancel(): Unit = ()
91 }
92 // can't be final because of SI-4440
93 case class OnComplete(shell: GraphInterpreterShell) extends SimpleBoundaryEvent {
94 override def execute(): Unit = {
95 if (GraphInterpreter.Debug) println(s"${interpreter.Name} onComplete port=$internalPortName")
96 BatchingActorInputBoundary.this.onComplete()
```

src/main/scala/akka/stream/impl/fusing/GraphInterpreter.scala, line 62 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: GraphInterpreter$Cancelled
File: src/main/scala/akka/stream/impl/fusing/GraphInterpreter.scala:62
Taint Flags:

```
59 final case class Failed(ex: Throwable, previousElem: Any)
60
61 /** Marker class that indicates that a port was cancelled with a given cause */
62 final case class Cancelled(cause: Throwable)
63
64 abstract class UpstreamBoundaryStageLogic[T] extends GraphStageLogic(inCount = 0, outCount = 1) {
```


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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/GraphInterpreter.scala, line 62 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

```
65 def out: Outlet[T]
```

src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala, line 82 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: ActorGraphInterpreter$BatchingActorInputBoundary$OnError
File: src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala:82
Taint Flags:

```
79 with OutHandler {
80
81 // can't be final because of SI-4440
82 case class OnError(shell: GraphInterpreterShell, cause: Throwable) extends SimpleBoundaryEvent {
83 override def execute(): Unit = {
84 if (GraphInterpreter.Debug) println(s"${interpreter.Name} onError port=$internalPortName")
85 BatchingActorInputBoundary.this.onError(cause)
```

src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala, line 104 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: ActorGraphInterpreter$BatchingActorInputBoundary$OnNext
File: src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala:104
Taint Flags:

```
101 override def cancel(): Unit = ()
102 }
103 // can't be final because of SI-4440
104 case class OnNext(shell: GraphInterpreterShell, e: Any) extends SimpleBoundaryEvent {
105 override def execute(): Unit = {
106 if (GraphInterpreter.Debug) println(s"${interpreter.Name} onNext $e port=$internalPortName")
107 BatchingActorInputBoundary.this.onNext(e)
```

src/main/scala/akka/stream/impl/fusing/GraphInterpreter.scala, line 59 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/GraphInterpreter.scala, line 59 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: GraphInterpreter$Failed
File: src/main/scala/akka/stream/impl/fusing/GraphInterpreter.scala:59
Taint Flags:

```
56 case object Empty
57
58 /** Marker class that indicates that a port was failed with a given cause and a potential outstanding element */
59 final case class Failed(ex: Throwable, previousElem: Any)
60
61 /** Marker class that indicates that a port was cancelled with a given cause */
62 final case class Cancelled(cause: Throwable)
```

src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala, line 531 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: GraphInterpreterShell$ResumeShell
File: src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala:531
Taint Flags:

```
528 }
529
530 // can't be final because of SI-4440
531 case class ResumeShell(shell: GraphInterpreterShell) extends BoundaryEvent {
532 override def execute(eventLimit: Int): Int =
533 if (!waitingForShutdown) {
534 if (GraphInterpreter.Debug) println(s"${interpreter.Name} resume")
```

src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala, line 542 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala, line 542 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Sink: Class: GraphInterpreterShell$Abort
File: src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala:542
Taint Flags:

```
539 }
540
541 // can't be final because of SI-4440
542 case class Abort(shell: GraphInterpreterShell) extends BoundaryEvent {
543 override def execute(eventLimit: Int): Int = {
544 if (waitingForShutdown) {
545 subscribesPending = 0
```

src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala, line 299 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: ActorGraphInterpreter$Cancel
File: src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala:299
Taint Flags:

```
296 override def logic: GraphStageLogic = boundary
297 override def cancel(): Unit = ()
298 }
299 final case class Cancel(boundary: ActorOutputBoundary, cause: Throwable) extends SimpleBoundaryEvent {
300 override def execute(): Unit = {
301 if (GraphInterpreter.Debug)
302 println(
```

src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala, line 115 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: ActorGraphInterpreter$BatchingActorInputBoundary$OnSubscribe
File: src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala:115
Taint Flags:

```
112 override def cancel(): Unit = ()
113 }
```


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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/ActorGraphInterpreter.scala, line 115 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

```
114  // can't be final because of SI-4440
115  case class OnSubscribe(shell: GraphInterpreterShell, subscription: Subscription) extends SimpleBoundaryEvent {
116  override def execute(): Unit = {
117  if (GraphInterpreter.Debug) println(s"${interpreter.Name} onSubscribe port=$internalPortName")
118  shell.subscribeArrived()
```

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/InputStreamSinkStage.scala, line 33 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: InputStreamSinkStage$Failed
File: src/main/scala/akka/stream/impl/io/InputStreamSinkStage.scala:33
Taint Flags:

```
30  case class Data(data: ByteString) extends StreamToAdapterMessage
31  case object Finished extends StreamToAdapterMessage
32  case object Initialized extends StreamToAdapterMessage
33  case class Failed(cause: Throwable) extends StreamToAdapterMessage
34
35  sealed trait StageWithCallback {
36  def wakeUp(msg: AdapterToStageMessage): Unit
```

src/main/scala/akka/stream/impl/io/OutputStreamSourceStage.scala, line 23 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: OutputStreamSourceStage$Send
File: src/main/scala/akka/stream/impl/io/OutputStreamSourceStage.scala:23
Taint Flags:

```
20
21 private[stream] object OutputStreamSourceStage {
22  sealed trait AdapterToStageMessage
23  case class Send(data: ByteString) extends AdapterToStageMessage
24  case object Close extends AdapterToStageMessage
25 }
```


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Code Correctness: Non-Static Inner Class Implements Serializable	Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/OutputStreamSourceStage.scala, line 23 (Code Correctness: Non-Static Inner Class Implements Serializable) **Low**

```
26
```

src/main/scala/akka/stream/impl/io/ByteStringParser.scala, line 181 (Code Correctness: Non-Static Inner Class Implements Serializable) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: ByteStringParser$ParsingException
File: src/main/scala/akka/stream/impl/io/ByteStringParser.scala:181
Taint Flags:

```
178 }
179
180 @deprecated("Deprecated for internal usage. Will not be emitted any more.", "2.6.20")
181 class ParsingException(msg: String, cause: Throwable) extends RuntimeException(msg, cause)
182
183 val NeedMoreData = new Exception with NoStackTrace
184
```

src/main/scala/akka/stream/impl/io/InputStreamSinkStage.scala, line 30 (Code Correctness: Non-Static Inner Class Implements Serializable) **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: InputStreamSinkStage$Data
File: src/main/scala/akka/stream/impl/io/InputStreamSinkStage.scala:30
Taint Flags:

```
27
28 sealed trait StreamToAdapterMessage
29 // Only non-empty ByteString is expected as Data
30 case class Data(data: ByteString) extends StreamToAdapterMessage
31 case object Finished extends StreamToAdapterMessage
32 case object Initialized extends StreamToAdapterMessage
33 case class Failed(cause: Throwable) extends StreamToAdapterMessage
```

src/main/scala/akka/stream/impl/io/ByteStringParser.scala, line 162 (Code Correctness: Non-Static Inner Class Implements Serializable) **Low**

Issue Details

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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/ByteStringParser.scala, line 162 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: ByteStringParser$ParseResult
File: src/main/scala/akka/stream/impl/io/ByteStringParser.scala:162
Taint Flags:

```
159 * @param acceptUpstreamFinish - if true - stream will complete when received `onUpstreamFinish`, if "false"
160 * - onTruncation will be called
161 */
162 case class ParseResult[+T](result: Option[T], nextStep: ParseStep[T], acceptUpstreamFinish: Boolean = true)
163
164 trait ParseStep[+T] {
165
```

Package: akka.stream.impl.streamref

src/main/scala/akka/stream/impl/streamref/SourceRefImpl.scala, line 45 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: SourceRefStageImpl$WatermarkRequestStrategy
File: src/main/scala/akka/stream/impl/streamref/SourceRefImpl.scala:45
Taint Flags:

```
42 * Requests up to the `highWatermark` when the `remainingRequested` is
43 * below the `lowWatermark`. This a good strategy when the actor performs work itself.
44 */
45 final case class WatermarkRequestStrategy(highWatermark: Int, lowWatermark: Int) {
46 require(lowWatermark >= 0, "lowWatermark must be >= 0")
47 require(highWatermark >= lowWatermark, "highWatermark must be >= lowWatermark")
48
```

src/main/scala/akka/stream/impl/streamref/SourceRefImpl.scala, line 79 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl.streamref

src/main/scala/akka/stream/impl/streamref/SourceRefImpl.scala, line 79 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Sink: Class: SourceRefStageImpl$Running
File: src/main/scala/akka/stream/impl/streamref/SourceRefImpl.scala:79
Taint Flags:

```
76 // we're the "remote" for an already active Source on the other side (the "origin")
77 private case class AwaitingSubscription(partner: ActorRef) extends WeKnowPartner
78 // subscription aquired and up and running
79 private final case class Running(partner: ActorRef) extends WeKnowPartner
80
81 // downstream cancelled or failed, waiting for remote upstream to ack
82 private final case class WaitingForCancelAck(partner: ActorRef, cause: Throwable) extends WeKnowPartner
```

src/main/scala/akka/stream/impl/streamref/SourceRefImpl.scala, line 85 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: SourceRefStageImpl$UpstreamTerminated
File: src/main/scala/akka/stream/impl/streamref/SourceRefImpl.scala:85
Taint Flags:

```
82 private final case class WaitingForCancelAck(partner: ActorRef, cause: Throwable) extends WeKnowPartner
83 // upstream completed, we are waiting to allow
84 private final case class UpstreamCompleted(partner: ActorRef) extends WeKnowPartner
85 private final case class UpstreamTerminated(partner: ActorRef) extends State
86
87 val SubscriptionTimeoutTimerKey = "SubscriptionTimeoutKey"
88 val DemandRedeliveryTimerKey = "DemandRedeliveryTimerKey"
```

src/main/scala/akka/stream/impl/streamref/SourceRefImpl.scala, line 82 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: SourceRefStageImpl$WaitingForCancelAck
File: src/main/scala/akka/stream/impl/streamref/SourceRefImpl.scala:82
Taint Flags:

```
79 private final case class Running(partner: ActorRef) extends WeKnowPartner
80
```


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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.impl.streamref

src/main/scala/akka/stream/impl/streamref/SourceRefImpl.scala, line 82 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

```
81 // downstream cancelled or failed, waiting for remote upstream to ack
82 private final case class WaitingForCancelAck(partner: ActorRef, cause: Throwable) extends WeKnowPartner
83 // upstream completed, we are waiting to allow
84 private final case class UpstreamCompleted(partner: ActorRef) extends WeKnowPartner
85 private final case class UpstreamTerminated(partner: ActorRef) extends State
```

src/main/scala/akka/stream/impl/streamref/SourceRefImpl.scala, line 77 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: SourceRefStageImpl$AwaitingSubscription
File: src/main/scala/akka/stream/impl/streamref/SourceRefImpl.scala:77
Taint Flags:

```
74 // we are the "origin", and awaiting the other side to start when we'll receive this ref
75 private case object AwaitingPartner extends State
76 // we're the "remote" for an already active Source on the other side (the "origin")
77 private case class AwaitingSubscription(partner: ActorRef) extends WeKnowPartner
78 // subscription aquired and up and running
79 private final case class Running(partner: ActorRef) extends WeKnowPartner
80
```

src/main/scala/akka/stream/impl/streamref/SourceRefImpl.scala, line 84 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: SourceRefStageImpl$UpstreamCompleted
File: src/main/scala/akka/stream/impl/streamref/SourceRefImpl.scala:84
Taint Flags:

```
81 // downstream cancelled or failed, waiting for remote upstream to ack
82 private final case class WaitingForCancelAck(partner: ActorRef, cause: Throwable) extends WeKnowPartner
83 // upstream completed, we are waiting to allow
84 private final case class UpstreamCompleted(partner: ActorRef) extends WeKnowPartner
85 private final case class UpstreamTerminated(partner: ActorRef) extends State
86
87 val SubscriptionTimeoutTimerKey = "SubscriptionTimeoutKey"
```


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Code Correctness: Non-Static Inner Class Implements Serializable	Low
Package: akka.stream.impl.streamref	
src/main/scala/akka/stream/impl/streamref/SourceRefImpl.scala, line 84 (Code Correctness: Non-Static Inner Class Implements Serializable)	**Low**

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Hub.scala, line 461 (Code Correctness: Non-Static Inner Class Implements Serializable) — **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: BroadcastHub$UnRegister
File: src/main/scala/akka/stream/scaladsl/Hub.scala:461
Taint Flags:

```
458
459 private object RegistrationPending extends HubEvent
460 // these 4 next classes can't be final because of SI-4440
461 private case class UnRegister(id: Long, previousOffset: Int, finalOffset: Int) extends HubEvent
462 private case class Advance(id: Long, previousOffset: Int) extends HubEvent
463 private case class NeedWakeup(id: Long, previousOffset: Int, currentOffset: Int) extends HubEvent
464 private case class Consumer(id: Long, callback: AsyncCallback[ConsumerEvent])
```

src/main/scala/akka/stream/scaladsl/Hub.scala, line 143 (Code Correctness: Non-Static Inner Class Implements Serializable) — **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: MergeHub$Element
File: src/main/scala/akka/stream/scaladsl/Hub.scala:143
Taint Flags:

```
140 }
141
142 // these 3 can't be final because of SI-4440
143 private case class Element(id: Long, elem: T) extends Event
144 private case class Register(id: Long, demandCallback: AsyncCallback[Long]) extends Event
145 private case class Deregister(id: Long) extends Event
146
```


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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Tcp.scala, line 78 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: Tcp$OutgoingConnection
File: src/main/scala/akka/stream/scaladsl/Tcp.scala:78
Taint Flags:

```
75 /**
76 * Represents a prospective outgoing TCP connection.
77 */
78 final case class OutgoingConnection(remoteAddress: InetSocketAddress, localAddress: InetSocketAddress)
79
80 override def get(system: ActorSystem): Tcp = super.get(system)
81 override def get(system: ClassicActorSystemProvider): Tcp = super.get(system)
```

src/main/scala/akka/stream/scaladsl/Tcp.scala, line 50 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: Tcp$ServerBinding
File: src/main/scala/akka/stream/scaladsl/Tcp.scala:50
Taint Flags:

```
47 * @param unbindAction a function that will trigger unbind of the server
48 * @param whenUnbound A future that is completed when the server is unbound, or failed if the server binding fails
49 */
50 final case class ServerBinding @InternalApi private[akka] (localAddress: InetSocketAddress)(
51 private val unbindAction: () => Future[Unit],
52 val whenUnbound: Future[Done]) {
53 def unbind(): Future[Unit] = unbindAction()
```

src/main/scala/akka/stream/scaladsl/Hub.scala, line 145 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Hub.scala, line 145 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Sink: Class: MergeHub$Deregister
File: src/main/scala/akka/stream/scaladsl/Hub.scala:145
Taint Flags:

```
142 // these 3 can't be final because of SI-4440
143 private case class Element(id: Long, elem: T) extends Event
144 private case class Register(id: Long, demandCallback: AsyncCallback[Long]) extends Event
145 private case class Deregister(id: Long) extends Event
146
147 final class InputState(signalDemand: AsyncCallback[Long]) {
148 private var untilNextDemandSignal = DemandThreshold
```

src/main/scala/akka/stream/scaladsl/Hub.scala, line 462 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: BroadcastHub$Advance
File: src/main/scala/akka/stream/scaladsl/Hub.scala:462
Taint Flags:

```
459 private object RegistrationPending extends HubEvent
460 // these 4 next classes can't be final because of SI-4440
461 private case class UnRegister(id: Long, previousOffset: Int, finalOffset: Int) extends HubEvent
462 private case class Advance(id: Long, previousOffset: Int) extends HubEvent
463 private case class NeedWakeup(id: Long, previousOffset: Int, currentOffset: Int) extends HubEvent
464 private case class Consumer(id: Long, callback: AsyncCallback[ConsumerEvent])
465
```

src/main/scala/akka/stream/scaladsl/Hub.scala, line 144 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: MergeHub$Register
File: src/main/scala/akka/stream/scaladsl/Hub.scala:144
Taint Flags:

```
141
142 // these 3 can't be final because of SI-4440
```


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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Hub.scala, line 144 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

```
143 private case class Element(id: Long, elem: T) extends Event
144 private case class Register(id: Long, demandCallback: AsyncCallback[Long]) extends Event
145 private case class Deregister(id: Long) extends Event
146
147 final class InputState(signalDemand: AsyncCallback[Long]) {
```

src/main/scala/akka/stream/scaladsl/Hub.scala, line 463 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: BroadcastHub$NeedWakeup
File: src/main/scala/akka/stream/scaladsl/Hub.scala:463
Taint Flags:

```
460 // these 4 next classes can't be final because of SI-4440
461 private case class UnRegister(id: Long, previousOffset: Int, finalOffset: Int) extends HubEvent
462 private case class Advance(id: Long, previousOffset: Int) extends HubEvent
463 private case class NeedWakeup(id: Long, previousOffset: Int, currentOffset: Int) extends HubEvent
464 private case class Consumer(id: Long, callback: AsyncCallback[ConsumerEvent])
465
466 private object Completed
```

src/main/scala/akka/stream/scaladsl/Hub.scala, line 469 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: BroadcastHub$Open
File: src/main/scala/akka/stream/scaladsl/Hub.scala:469
Taint Flags:

```
466 private object Completed
467
468 private sealed trait HubState
469 private case class Open(callbackFuture: Future[AsyncCallback[HubEvent]], registrations: List[Consumer])
470 extends HubState
471 private case class Closed(failure: Option[Throwable]) extends HubState
472
```


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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Hub.scala, line 469 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

src/main/scala/akka/stream/scaladsl/Graph.scala, line 763 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: Partition$PartitionOutOfBoundsException
File: src/main/scala/akka/stream/scaladsl/Graph.scala:763
Taint Flags:

```
760
761 object Partition {
762  // FIXME make `PartitionOutOfBoundsException` a `final` class when possible
763  case class PartitionOutOfBoundsException(msg: String) extends IndexOutOfBoundsException(msg) with NoStackTrace
764
765  /**
766  * Create a new `Partition` operator with the specified input type. This method sets `eagerCancel` to `false`.
```

src/main/scala/akka/stream/scaladsl/Hub.scala, line 464 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: BroadcastHub$Consumer
File: src/main/scala/akka/stream/scaladsl/Hub.scala:464
Taint Flags:

```
461 private case class UnRegister(id: Long, previousOffset: Int, finalOffset: Int) extends HubEvent
462 private case class Advance(id: Long, previousOffset: Int) extends HubEvent
463 private case class NeedWakeup(id: Long, previousOffset: Int, currentOffset: Int) extends HubEvent
464 private case class Consumer(id: Long, callback: AsyncCallback[ConsumerEvent])
465
466 private object Completed
467
```

src/main/scala/akka/stream/scaladsl/Hub.scala, line 471 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Hub.scala, line 471 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: BroadcastHub$Closed
File: src/main/scala/akka/stream/scaladsl/Hub.scala:471
Taint Flags:

```
468 private sealed trait HubState
469 private case class Open(callbackFuture: Future[AsyncCallback[HubEvent]], registrations: List[Consumer])
470 extends HubState
471 private case class Closed(failure: Option[Throwable]) extends HubState
472
473 private class BroadcastSinkLogic(_shape: Shape) extends GraphStageLogic(_shape) with InHandler {
474
```

src/main/scala/akka/stream/scaladsl/Hub.scala, line 115 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: MergeHub$ProducerFailed
File: src/main/scala/akka/stream/scaladsl/Hub.scala:115
Taint Flags:

```
112 def sourceWithDraining[T](): Source[T, (Sink[T, NotUsed], DrainingControl)] =
113 sourceWithDraining(perProducerBufferSize = 16)
114
115 final class ProducerFailed(msg: String, cause: Throwable) extends RuntimeException(msg, cause)
116 }
117
118 /**
```

src/main/scala/akka/stream/scaladsl/Graph.scala, line 1444 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 1444 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Sink: Class: MergeSequence$Pushed
File: src/main/scala/akka/stream/scaladsl/Graph.scala:1444
Taint Flags:

```
1441
1442 object MergeSequence {
1443
1444  private case class Pushed[T](in: Inlet[T], sequence: Long, elem: T)
1445
1446  private implicit def ordering[T]: Ordering[Pushed[T]] = Ordering.by[Pushed[T], Long](_.sequence).reverse
1447
```

src/main/scala/akka/stream/scaladsl/RestartFlow.scala, line 435 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: RestartWithBackoffFlow$Delay
File: src/main/scala/akka/stream/scaladsl/RestartFlow.scala:435
Taint Flags:

```
432 *
433 * Will be removed if/when cancellation can include a cause.
434 */
435 case class Delay(duration: FiniteDuration) extends Attribute
436
437 /**
438 * Returns a flow that is almost identity but delays propagation of cancellation from downstream to upstream.
```

src/main/scala/akka/stream/scaladsl/Tcp.scala, line 59 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: Tcp$IncomingConnection
File: src/main/scala/akka/stream/scaladsl/Tcp.scala:59
Taint Flags:

```
56 /**
57 * Represents an accepted incoming TCP connection.
```


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Code Correctness: Non-Static Inner Class Implements Serializable — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Tcp.scala, line 59 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

```
58 */
59 final case class IncomingConnection(
60 localAddress: InetSocketAddress,
61 remoteAddress: InetSocketAddress,
62 flow: Flow[ByteString, ByteString, NotUsed]) {
```

src/main/scala/akka/stream/scaladsl/Hub.scala, line 703 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: BroadcastHub$HubCompleted
File: src/main/scala/akka/stream/scaladsl/Hub.scala:703
Taint Flags:

```
700 private sealed trait ConsumerEvent
701 private object Wakeup extends ConsumerEvent
702 // these two can't be final because of SI-4440
703 private case class HubCompleted(failure: Option[Throwable]) extends ConsumerEvent
704 private case class Initialize(offset: Int) extends ConsumerEvent
705
706 override def createLogicAndMaterializedValue(
```

src/main/scala/akka/stream/scaladsl/Hub.scala, line 704 (Code Correctness: Non-Static Inner Class Implements Serializable) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: BroadcastHub$Initialize
File: src/main/scala/akka/stream/scaladsl/Hub.scala:704
Taint Flags:

```
701 private object Wakeup extends ConsumerEvent
702 // these two can't be final because of SI-4440
703 private case class HubCompleted(failure: Option[Throwable]) extends ConsumerEvent
704 private case class Initialize(offset: Int) extends ConsumerEvent
705
706 override def createLogicAndMaterializedValue(
707 inheritedAttributes: Attributes): (GraphStageLogic, Source[T, NotUsed]) = {
```


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Code Correctness: Non-Static Inner Class Implements Serializable	Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Hub.scala, line 704 (Code Correctness: Non-Static Inner Class Implements Serializable)	Low

Package: akka.stream.stage

src/main/scala/akka/stream/stage/GraphStage.scala, line 117 (Code Correctness: Non-Static Inner Class Implements Serializable)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: GraphStageLogic$StageActorRefNotInitializedException
File: src/main/scala/akka/stream/stage/GraphStage.scala:117
Taint Flags:

```
114 }
115
116 object GraphStageLogic {
117  final case class StageActorRefNotInitializedException()
118  extends RuntimeException("You must first call getStageActor, to initialize the Actors behavior")
119
120  /**
```

src/main/scala/akka/stream/stage/GraphStage.scala, line 1189 (Code Correctness: Non-Static Inner Class Implements Serializable)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Class: GraphStageLogic$ConcurrentAsyncCallback
File: src/main/scala/akka/stream/stage/GraphStage.scala:1189
Taint Flags:

```
1186  * [[onStop]] puts class in `Completed` state
1187  * "Real world" calls of [[invokeWithFeedback]] always return failed promises for `Completed` state
1188  */
1189  private final class ConcurrentAsyncCallback[T](handler: T => Unit)
1190  extends AtomicReference[State[T]](NoPendingEvents)
1191  with AsyncCallback[T] {
1192  import ConcurrentAsyncCallbackState._
```


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Dead Code: Expression is Always false (1 issue)

Abstract

This expression will always evaluate to `false`.

Explanation

This expression will always evaluate to `false`; the program could be rewritten in a simpler form. The nearby code may be present for debugging purposes, or it may not have been maintained along with the rest of the program. The expression may also be indicative of a bug earlier in the method. **Example 1:** The following method never sets the variable `secondCall` after initializing it to `false`. (The variable `firstCall` is mistakenly used twice.) The result is that the expression `firstCall && secondCall` will always evaluate to `false`, so `setUpDualCall()` will never be invoked.

```
public void setUpCalls() {
  boolean firstCall = false;
  boolean secondCall = false;

  if (fCall > 0) {
    setUpFCall();
    firstCall = true;
  }
  if (sCall > 0) {
    setUpSCall();
    firstCall = true;
  }

  if (firstCall && secondCall) {
    setUpDualCall();
  }
}
```

Example 2: The following method never sets the variable `firstCall` to `true`. (The variable `firstCall` is mistakenly set to `false` after the first conditional statement.) The result is that the first part of the expression `firstCall && secondCall` will always evaluate to `false`.

```
public void setUpCalls() {
  boolean firstCall = false;
  boolean secondCall = false;

  if (fCall > 0) {
    setUpFCall();
    firstCall = false;
  }
  if (sCall > 0) {
    setUpSCall();
    secondCall = true;
  }

  if (firstCall && secondCall) {
    setUpForCall();
  }
}
```

Recommendation

In general, you should repair or remove unused code. It causes additional complexity and maintenance burden without

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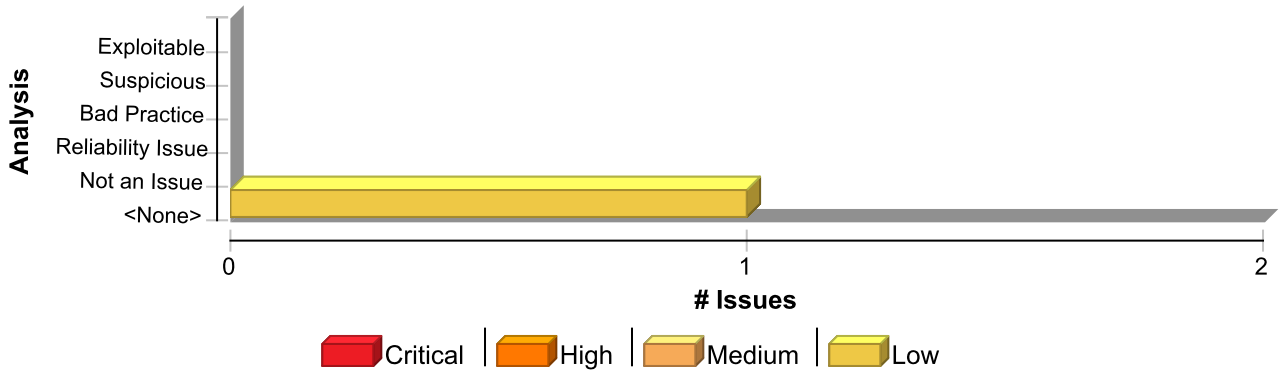
contributing to the functionality of the program.

Issue Summary



Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Dead Code: Expression is Always false	1	0	0	1
Total	**1**	**0**	**0**	**1**

Dead Code: Expression is Always false — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/UnfoldResourceSource.scala, line 61 (Dead Code: Expression is Always false) — **Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: IfStatement
Enclosing Method: onPull()
File: src/main/scala/akka/stream/impl/UnfoldResourceSource.scala:61
Taint Flags:

```
58 resumingMode = true
59 }
60 }
61 if (resumingMode) onPull()
62 }
63
64 override def onDownstreamFinish(cause: Throwable): Unit = closeStage()
```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Dead Code: Expression is Always true (2 issues)

Abstract

This expression will always evaluate to `true`.

Explanation

This expression will always evaluate to `true`; the program could be rewritten in a simpler form. The nearby code may be present for debugging purposes, or it may not have been maintained along with the rest of the program. The expression may also be indicative of a bug earlier in the method. **Example 1:** The following method never sets the variable `secondCall` after initializing it to `true`. (The variable `firstCall` is mistakenly used twice.) The result is that the expression `firstCall || secondCall` will always evaluate to `true`, so `setUpForCall()` will always be invoked.

```
public void setUpCalls() {
  boolean firstCall = true;
  boolean secondCall = true;

  if (fCall < 0) {
    cancelFCall();
    firstCall = false;
  }
  if (sCall < 0) {
    cancelSCall();
    firstCall = false;
  }

  if (firstCall || secondCall) {
    setUpForCall();
  }
}
```

Example 2: The following method tries to check the variables `firstCall` and `secondCall`. (The variable `firstCall` is mistakenly set to `true` instead of being checked.) The result is that the first part of the expression `firstCall = true && secondCall == true` will always evaluate to `true`.

```
public void setUpCalls() {
  boolean firstCall = false;
  boolean secondCall = false;

  if (fCall > 0) {
    setUpFCall();
    firstCall = true;
  }
  if (sCall > 0) {
    setUpSCall();
    secondCall = true;
  }

  if (firstCall = true && secondCall == true) {
    setUpDualCall();
  }
}
```

Recommendation

In general, you should repair or remove unused code. It causes additional complexity and maintenance burden without

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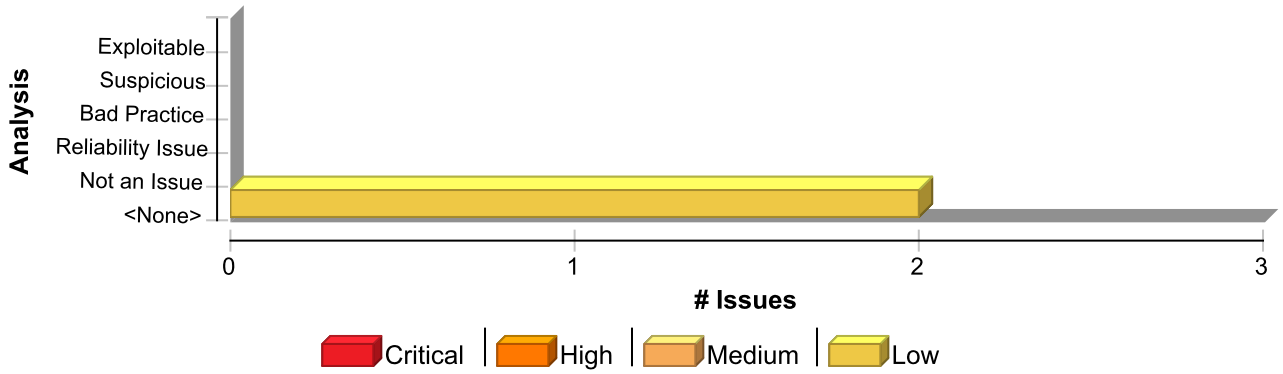
contributing to the functionality of the program.

Issue Summary



Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Dead Code: Expression is Always true	2	0	0	2
Total	**2**	**0**	**0**	**2**

Dead Code: Expression is Always true — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/SubscriberManagement.scala, line 133 (Dead Code: Expression is Always true) — Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: IfStatement
Enclosing Method: dispatchFromBufferAndReturnRemainingRequested()
File: src/main/scala/akka/stream/impl/SubscriberManagement.scala:133
Taint Flags:

```
130 unregisterSubscriptionInternal(subscription)
131 false
132 }
133 if (goOn) dispatchFromBufferAndReturnRemainingRequested(requested - 1, eos)
134 else Long.MinValue
135 } else if (eos ne NotReached) Long.MinValue
136 else requested
```

Package: akka.stream.stage

src/main/scala/akka/stream/stage/GraphStage.scala, line 1137 (Dead Code: Expression is Always true) — Low

Issue Details

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Dead Code: Expression is Always true	Low
Package: akka.stream.stage	
src/main/scala/akka/stream/stage/GraphStage.scala, line 1137 (Dead Code: Expression is Always true)	**Low**

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: IfStatement
Enclosing Method: passAlong()
File: src/main/scala/akka/stream/stage/GraphStage.scala:1137
Taint Flags:

```
1134  val ph = new PassAlongHandler
1135  if (_interpreter != null) {
1136  if (isAvailable(from)) emit(to, grab(from), ph)
1137  if (doFinish && isClosed(from)) completeStage()
1138  }
1139  setHandler(from, ph)
1140  if (doPull) tryPull(from)
```


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Insecure Randomness (2 issues)

Abstract

Standard pseudorandom number generators cannot withstand cryptographic attacks.

Explanation

Insecure randomness errors occur when a function that can produce predictable values is used as a source of randomness in a security-sensitive context. Computers are deterministic machines, and as such are unable to produce true randomness. Pseudorandom Number Generators (PRNGs) approximate randomness algorithmically, starting with a seed from which subsequent values are calculated. There are two types of PRNGs: statistical and cryptographic. Statistical PRNGs provide useful statistical properties, but their output is highly predictable and form an easy to reproduce numeric stream that is unsuitable for use in cases where security depends on generated values being unpredictable. Cryptographic PRNGs address this problem by generating output that is more difficult to predict. For a value to be cryptographically secure, it must be impossible or highly improbable for an attacker to distinguish between the generated random value and a truly random value. In general, if a PRNG algorithm is not advertised as being cryptographically secure, then it is probably a statistical PRNG and should not be used in security-sensitive contexts, where its use can lead to serious vulnerabilities such as easy-to-guess temporary passwords, predictable cryptographic keys, session hijacking, and DNS spoofing. **Example:** The following code uses a statistical PRNG to create a URL for a receipt that remains active for some period of time after a purchase.

```
String GenerateReceiptURL(String baseUrl) {
    Random ranGen = new Random();
    ranGen.setSeed((new Date()).getTime());
    return (baseUrl + ranGen.nextInt(400000000) + ".html");
}
```

This code uses the `Random.nextInt()` function to generate "unique" identifiers for the receipt pages it generates. Since `Random.nextInt()` is a statistical PRNG, it is easy for an attacker to guess the strings it generates. Although the underlying design of the receipt system is also faulty, it would be more secure if it used a random number generator that did not produce predictable receipt identifiers, such as a cryptographic PRNG.

Recommendation

When unpredictability is critical, as is the case with most security-sensitive uses of randomness, use a cryptographic PRNG. Regardless of the PRNG you choose, always use a value with sufficient entropy to seed the algorithm. (Do not use values such as the current time because it offers only negligible entropy.) The Java language provides a cryptographic PRNG in `java.security.SecureRandom`. As is the case with other algorithm-based classes in `java.security`, `SecureRandom` provides an implementation-independent wrapper around a particular set of algorithms. When you request an instance of a `SecureRandom` object using `SecureRandom.getInstance()`, you can request a specific implementation of the algorithm. If the algorithm is available, then it is given as a `SecureRandom` object. If it is unavailable or if you do not specify a particular implementation, then you are given a `SecureRandom` implementation selected by the system. Sun provides a single `SecureRandom` implementation with the Java distribution named `SHA1PRNG`, which Sun describes as computing: "The SHA-1 hash over a true-random seed value concatenated with a 64-bit counter which is incremented by 1 for each operation. From the 160-bit SHA-1 output, only 64 bits are used [1]." However, the specifics of the Sun implementation of the `SHA1PRNG` algorithm are poorly documented, and it is unclear what sources of entropy the implementation uses and therefore what amount of true randomness exists in its output. Although there is speculation on the Web about the Sun implementation, there is no evidence to contradict the claim that the algorithm is cryptographically strong and can be used safely in security-sensitive contexts.

Issue Summary

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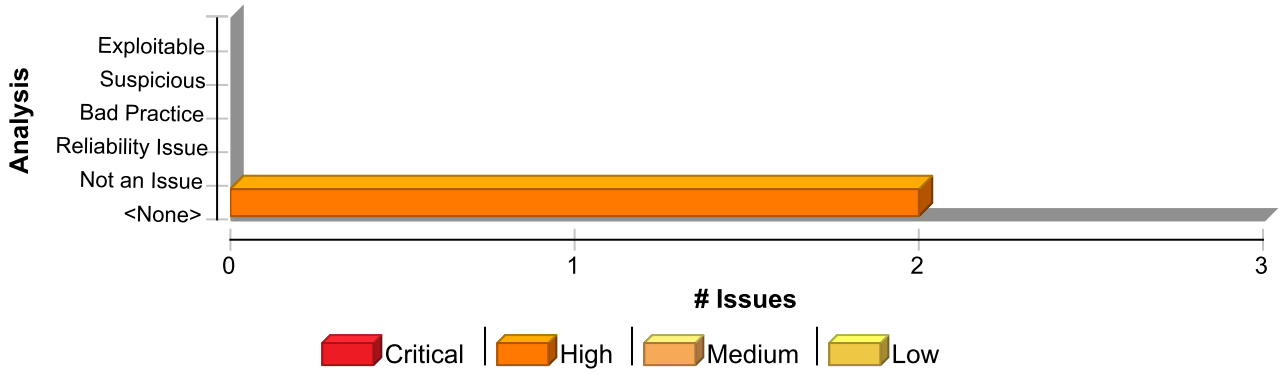

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Insecure Randomness	2	0	0	2
Total	**2**	**0**	**0**	**2**

Insecure Randomness — High

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/GraphInterpreter.scala, line 558 (Insecure Randomness) — High

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Semantic)

Sink Details

Sink: nextInt()
Enclosing Method: dequeue()
File: src/main/scala/akka/stream/impl/fusing/GraphInterpreter.scala:558
Taint Flags:

```
555 private def dequeue(): Connection = {
556 val idx = queueHead & mask
557 if (fuzzingMode) {
558 val swapWith = (ThreadLocalRandom.current.nextInt(queueTail - queueHead) + queueHead) & mask
559 val ev = eventQueue(swapWith)
560 eventQueue(swapWith) = eventQueue(idx)
561 eventQueue(idx) = ev
```

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Graph.scala, line 406 (Insecure Randomness) — High

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Semantic)

Sink Details

Sink: nextInt()

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Insecure Randomness	High
Package: akka.stream.scaladsl	
src/main/scala/akka/stream/scaladsl/Graph.scala, line 406 (Insecure Randomness)	**High**

Enclosing Method: select()
File: src/main/scala/akka/stream/scaladsl/Graph.scala:406
Taint Flags:

```
403 // no inlets are available
404 null.asInstanceOf[Inlet[T]]
405 } else {
406 var r = randomGen.nextInt(tp)
407 var next: Inlet[T] = null
408 ix = 0
409
```


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J2EE Bad Practices: Sockets (6 issues)

Abstract

Socket-based communication in web applications is prone to error.

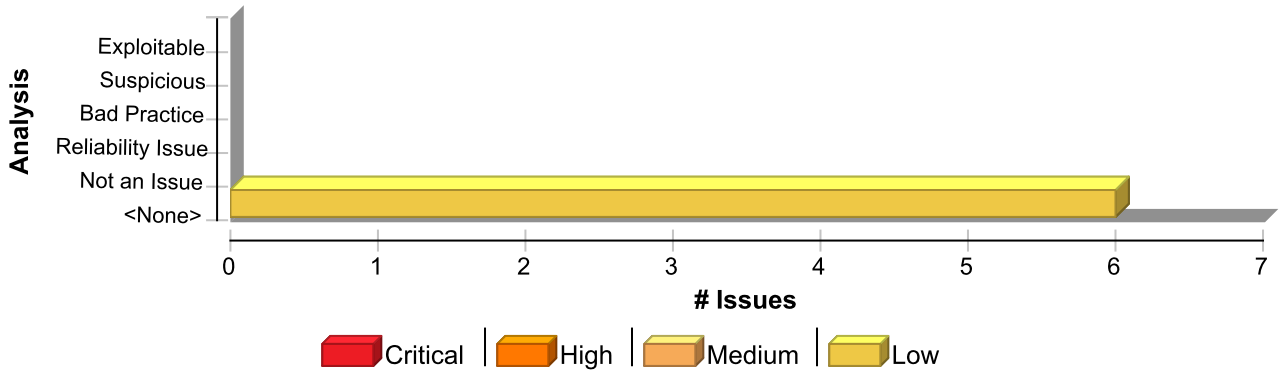
Explanation

The J2EE standard permits the use of sockets only for the purpose of communication with legacy systems when no higher-level protocol is available. Authoring your own communication protocol requires wrestling with difficult security issues, including: - In-band versus out-of-band signaling - Compatibility between protocol versions - Channel security - Error handling - Network constraints (firewalls) - Session management Without significant scrutiny by a security expert, chances are good that a custom communication protocol will suffer from security problems. Many of the same issues apply to a custom implementation of a standard protocol. While there are usually more resources available that address security concerns related to implementing a standard protocol, these resources are also available to attackers.

Recommendation

Replace a custom communication protocol with an industry standard protocol or framework. Consider whether you can use a protocol such as HTTP, FTP, SMTP, CORBA, RMI/IIOP, EJB, or SOAP. Consider the security track record of the protocol implementation you choose.

Issue Summary



Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
J2EE Bad Practices: Sockets	6	0	0	6
Total	**6**	**0**	**0**	**6**

J2EE Bad Practices: Sockets — **Low**

Package: akka.stream.javadsl

src/main/scala/akka/stream/javadsl/Tcp.scala, line 311 (J2EE Bad Practices: Sockets) — **Low**

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

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J2EE Bad Practices: Sockets — Low

Package: akka.stream.javadsl

src/main/scala/akka/stream/javadsl/Tcp.scala, line 311 (J2EE Bad Practices: Sockets) — Low

Sink: InetSocketAddress()
Enclosing Method: outgoingConnection()
File: src/main/scala/akka/stream/javadsl/Tcp.scala:311
Taint Flags:

```
308 def outgoingConnection(host: String, port: Int): Flow[ByteString, ByteString, CompletionStage[OutgoingConnection]] =
309 Flow.fromGraph(
310 delegate
311 .outgoingConnection(new InetSocketAddress(host, port))
312 .mapMaterializedValue(_.map(new OutgoingConnection(_))(parasitic).toJava))
313
314 /**
```

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Tcp.scala, line 241 (J2EE Bad Practices: Sockets) — Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: createUnresolved()
Enclosing Method: outgoingConnection()
File: src/main/scala/akka/stream/scaladsl/Tcp.scala:241
Taint Flags:

```
238 * for example using the [[Framing]] operators.
239 */
240 def outgoingConnection(host: String, port: Int): Flow[ByteString, ByteString, Future[OutgoingConnection]] =
241 outgoingConnection(InetSocketAddress.createUnresolved(host, port))
242
243 /**
244 * Creates an [[Tcp.OutgoingConnection]] with TLS.
```

src/main/scala/akka/stream/scaladsl/Tcp.scala, line 241 (J2EE Bad Practices: Sockets) — Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: createUnresolved()
Enclosing Method: outgoingConnection()
File: src/main/scala/akka/stream/scaladsl/Tcp.scala:241
Taint Flags:

```
238 * for example using the [[Framing]] operators.
```


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J2EE Bad Practices: Sockets — Low

Package: akka.stream.scaladsl

src/main/scala/akka/stream/scaladsl/Tcp.scala, line 241 (J2EE Bad Practices: Sockets) — Low

```
239 */
240 def outgoingConnection(host: String, port: Int): Flow[ByteString, ByteString, Future[OutgoingConnection]] =
241 outgoingConnection(InetSocketAddress.createUnresolved(host, port))
242
243 /**
244 * Creates an [[Tcp.OutgoingConnection]] with TLS.
```

src/main/scala/akka/stream/scaladsl/Tcp.scala, line 139 (J2EE Bad Practices: Sockets) — Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: InetSocketAddress()
Enclosing Method: bind()
File: src/main/scala/akka/stream/scaladsl/Tcp.scala:139
Taint Flags:

```
136 Source.fromGraph(
137 new ConnectionSourceStage(
138 IO(IoTcp)(system),
139 new InetSocketAddress(interface, port),
140 backlog,
141 options.toList,
142 halfClose,
```

src/main/scala/akka/stream/scaladsl/Tcp.scala, line 264 (J2EE Bad Practices: Sockets) — Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: createUnresolved()
Enclosing Method: outgoingTlsConnection()
File: src/main/scala/akka/stream/scaladsl/Tcp.scala:264
Taint Flags:

```
261 port: Int,
262 sslContext: SSLContext,
263 negotiateNewSession: NegotiateNewSession): Flow[ByteString, ByteString, Future[OutgoingConnection]] =
264 outgoingTlsConnection(InetSocketAddress.createUnresolved(host, port), sslContext, negotiateNewSession)
265
266 /**
267 * Creates an [[Tcp.OutgoingConnection]] with TLS.
```


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J2EE Bad Practices: Sockets	Low
Package: akka.stream.scaladsl	
src/main/scala/akka/stream/scaladsl/Tcp.scala, line 264 (J2EE Bad Practices: Sockets)	Low

src/main/scala/akka/stream/scaladsl/Tcp.scala, line 264 (J2EE Bad Practices: Sockets)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: createUnresolved()
Enclosing Method: outgoingTlsConnection()
File: src/main/scala/akka/stream/scaladsl/Tcp.scala:264
Taint Flags:

```
261 port: Int,
262 sslContext: SSLContext,
263 negotiateNewSession: NegotiateNewSession): Flow[ByteString, ByteString, Future[OutgoingConnection]] =
264 outgoingTlsConnection(InetSocketAddress.createUnresolved(host, port), sslContext, negotiateNewSession)
265
266 /**
267 * Creates an [[Tcp.OutgoingConnection]] with TLS.
```


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J2EE Bad Practices: Threads (2 issues)

Abstract

Thread management in a web application is forbidden in some circumstances and is always highly error prone.

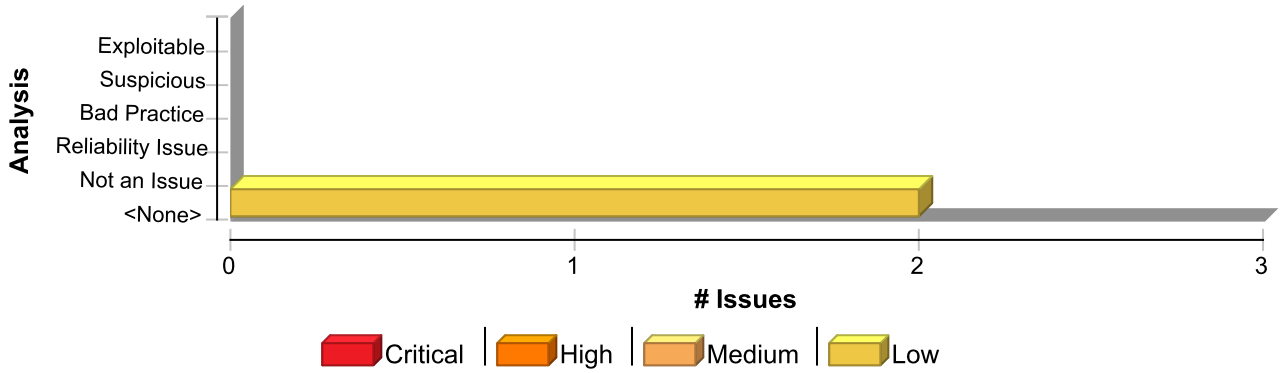
Explanation

Thread management in a web application is forbidden by the J2EE standard in some circumstances and is always highly error prone. Managing threads is difficult and is likely to interfere in unpredictable ways with the behavior of the application container. Even without interfering with the container, thread management usually leads to bugs that are hard to detect and diagnose like deadlock, race conditions, and other synchronization errors.

Recommendation

Avoid managing threads directly from within the web application. Instead use standards such as message driven beans and the EJB timer service that are provided by the application container.

Issue Summary



Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
J2EE Bad Practices: Threads	2	0	0	2
Total	**2**	**0**	**0**	**2**

J2EE Bad Practices: Threads	Low
Package: akka.stream.impl.fusing	
src/main/scala/akka/stream/impl/fusing/GraphInterpreter.scala, line 106 (J2EE Bad Practices: Threads)	**Low**

Issue Details

Kingdom: Time and State
Scan Engine: SCA (Semantic)

Sink Details

Sink: ThreadLocal()
Enclosing Method: GraphInterpreter$$anon$1()
File: src/main/scala/akka/stream/impl/fusing/GraphInterpreter.scala:106

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J2EE Bad Practices: Threads	Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/GraphInterpreter.scala, line 106 (J2EE Bad Practices: Threads)	Low

Taint Flags:

```
103 var slot: Any = Empty
104 }
105
106 private val _currentInterpreter = new ThreadLocal[Array[AnyRef]] {
107 /*
108 * Using an Object-array avoids holding on to the GraphInterpreter class
109 * when this accidentally leaks onto threads that are not stopped when this
```

Package: akka.stream.impl.io

src/main/scala/akka/stream/impl/io/TLSActor.scala, line 443 (J2EE Bad Practices: Threads)	Low

Issue Details

Kingdom: Time and State
Scan Engine: SCA (Semantic)

Sink Details

Sink: run()
Enclosing Method: runDelegatedTasks()
File: src/main/scala/akka/stream/impl/io/TLSActor.scala:443
Taint Flags:

```
440 val task = engine.getDelegatedTask
441 if (task != null) {
442 if (tracing) log.debug("running task")
443 task.run()
444 runDelegatedTasks()
445 } else {
446 val st = lastHandshakeStatus
```


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Null Dereference (2 issues)

Abstract

The program can potentially dereference a null-pointer, thereby causing a null-pointer exception.

Explanation

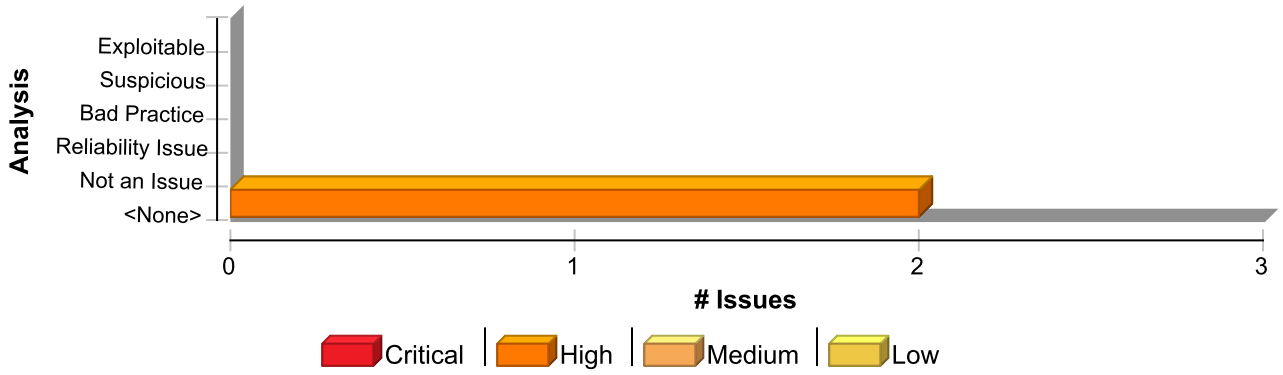
Null-pointer exceptions usually occur when one or more of the programmer's assumptions is violated. A dereference-after-store error occurs when a program explicitly sets an object to `null` and dereferences it later. This error is often the result of a programmer initializing a variable to `null` when it is declared. Most null-pointer issues result in general software reliability problems, but if attackers can intentionally trigger a null-pointer dereference, they can use the resulting exception to bypass security logic or to cause the application to reveal debugging information that will be valuable in planning subsequent attacks. **Example:** In the following code, the programmer explicitly sets the variable `foo` to `null`. Later, the programmer dereferences `foo` before checking the object for a `null` value.

```
Foo foo = null;
...
foo.setBar(val);
...
}
```

Recommendation

Implement careful checks before dereferencing objects that might be `null`. When possible, abstract `null` checks into wrappers around code that manipulates resources to ensure that they are applied in all cases and to minimize the places where mistakes can occur.

Issue Summary



Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Null Dereference	2	0	0	2
Total	**2**	**0**	**0**	**2**

Null Dereference	**High**
Package: akka.stream.impl	
src/main/scala/akka/stream/impl/TraversalBuilder.scala, line 294 (Null Dereference)	**High**
Issue Details	

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Null Dereference — High

Package: akka.stream.impl

src/main/scala/akka/stream/impl/TraversalBuilder.scala, line 294 (Null Dereference) — High

Kingdom: Code Quality
Scan Engine: SCA (Control Flow)

Sink Details

Sink: Dereferenced :
Enclosing Method: printTraversal()
File: src/main/scala/akka/stream/impl/TraversalBuilder.scala:294
Taint Flags:

```
291 case Pop => prindent("pop mat")
292 case _: Transform => prindent("transform mat")
293 case Compose(_, false) => prindent("compose mat")
294 case Compose(_, true) => prindent("compose reversed mat")
295 case PushAttributes(attr) => prindent("push attr " + attr)
296 case PopAttributes => prindent("pop attr")
297 case EnterIsland(tag) => prindent("enter island " + tag)
```

src/main/scala/akka/stream/impl/PhasedFusingActorMaterializer.scala, line 283 (Null Dereference) — High

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Control Flow)

Sink Details

Sink: Dereferenced : forwardWire
Enclosing Method: wireIn()
File: src/main/scala/akka/stream/impl/PhasedFusingActorMaterializer.scala:283
Taint Flags:

```
280 }
281
282 // If there is a forward wiring we need to resolve it
283 if (forwardWire ne null) {
284 // The forward wire ends up in the same island
285 if (forwardWire.phase eq currentPhase) {
286 if (Debug)
```


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Object Model Violation: Just one of equals() and hashCode() Defined (2 issues)

Abstract

This class overrides only one of `equals()` and `hashCode()`.

Explanation

Java objects are expected to obey a number of invariants related to equality. One of these invariants is that equal objects must have equal hashcodes. In other words, if `a.equals(b) == true` then `a.hashCode() == b.hashCode()`. Failure to uphold this invariant is likely to cause trouble if objects of this class are stored in a collection. If the objects of the class in question are used as a key in a Hashtable or if they are inserted into a Map or Set, it is critical that equal objects have equal hashcodes. **Example 1:** The following class overrides `equals()` but not `hashCode()`.

```
public class halfway() {
  public boolean equals(Object obj) {
    ...
  }
}
```

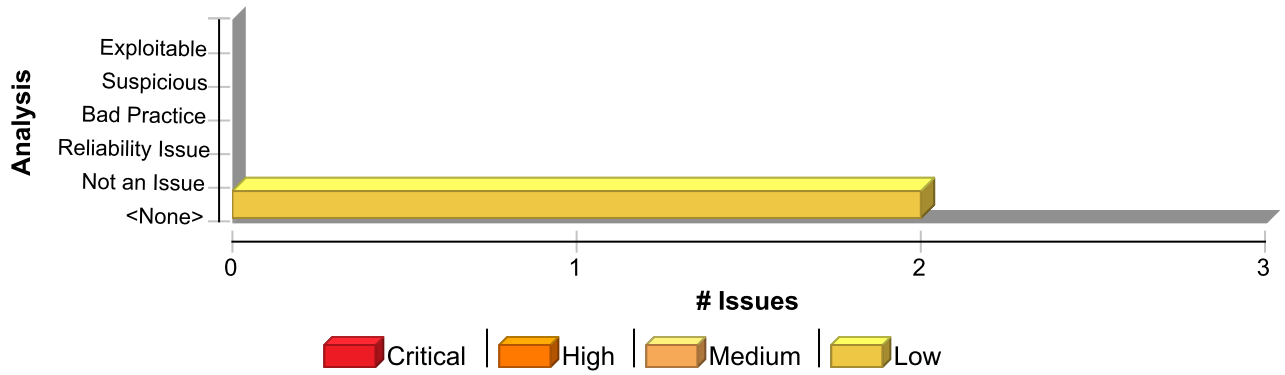
Recommendation

The FindBugs documentation recommends the following simple "starter" implementation of `hashCode()` [1]. It is highly inefficient, but it will produce correct results. If you do not believe that `hashCode()` is important for your program, consider using this implementation. **Example 2:** The code in `Example 1` could be rewritten in the following way:

```
public class halfway() {
  public boolean equals(Object obj) {
    ...
  }

public int hashCode() {
    assert false : "hashCode not designed";
    return 42; // any arbitrary constant will do
  }
}
```

Issue Summary



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Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Object Model Violation: Just one of equals() and hashCode() Defined	2	0	0	2
Total	**2**	**0**	**0**	**2**

Object Model Violation: Just one of equals() and hashCode() Defined — Low

Package: akka.stream

src/main/scala/akka/stream/ActorMaterializer.scala, line 724 (Object Model Violation: Just one of equals() and hashCode() Defined) — Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Structural)

Sink Details

Sink: Function: equals
Enclosing Method: equals()
File: src/main/scala/akka/stream/ActorMaterializer.scala:724
Taint Flags:

```
721 require((n & (n - 1)) == 0, s"$name must be a power of two")
722 }
723
724 override def equals(other: Any): Boolean = other match {
725 case s: ActorMaterializerSettings =>
726 s.initialInputBufferSize == initialInputBufferSize &&
727 s.maxInputBufferSize == maxInputBufferSize &&
```

src/main/scala/akka/stream/ActorMaterializer.scala, line 890 (Object Model Violation: Just one of equals() and hashCode() Defined) — Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Structural)

Sink Details

Sink: Function: equals
Enclosing Method: equals()
File: src/main/scala/akka/stream/ActorMaterializer.scala:890
Taint Flags:

```
887 val mode: StreamSubscriptionTimeoutTerminationMode,
888 @deprecated("Use attribute 'ActorAttributes.StreamSubscriptionTimeout' to read the concrete setting value", "2.6.0")
889 val timeout: FiniteDuration) {
890 override def equals(other: Any): Boolean = other match {
891 case s: StreamSubscriptionTimeoutSettings => s.mode == mode && s.timeout == timeout
892 case _ => false
893 }
```


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Poor Error Handling: Overly Broad Catch (2 issues)

Abstract

The catch block handles a broad swath of exceptions, potentially trapping dissimilar issues or problems that should not be dealt with at this point in the program.

Explanation

Multiple catch blocks can get repetitive, but "condensing" catch blocks by catching a high-level class such as `Exception` can obscure exceptions that deserve special treatment or that should not be caught at this point in the program. Catching an overly broad exception essentially defeats the purpose of Java's typed exceptions, and can become particularly dangerous if the program grows and begins to throw new types of exceptions. The new exception types will not receive any attention. **Example:** The following code excerpt handles three types of exceptions in an identical fashion.

```
  try {
    doExchange();
  }
  catch (IOException e) {
    logger.error("doExchange failed", e);
  }
  catch (InvocationTargetException e) {
    logger.error("doExchange failed", e);
  }
  catch (SQLException e) {
    logger.error("doExchange failed", e);
  }
```

At first blush, it may seem preferable to deal with these exceptions in a single catch block, as follows:

```
  try {
    doExchange();
  }
  catch (Exception e) {
    logger.error("doExchange failed", e);
  }
```

However, if `doExchange()` is modified to throw a new type of exception that should be handled in some different kind of way, the broad catch block will prevent the compiler from pointing out the situation. Further, the new catch block will now also handle exceptions derived from `RuntimeException` such as `ClassCastException`, and `NullPointerException`, which is not the programmer's intent.

Recommendation

Do not catch broad exception classes such as `Exception`, `Throwable`, `Error`, or `RuntimeException` except at the very top level of the program or thread.

Issue Summary

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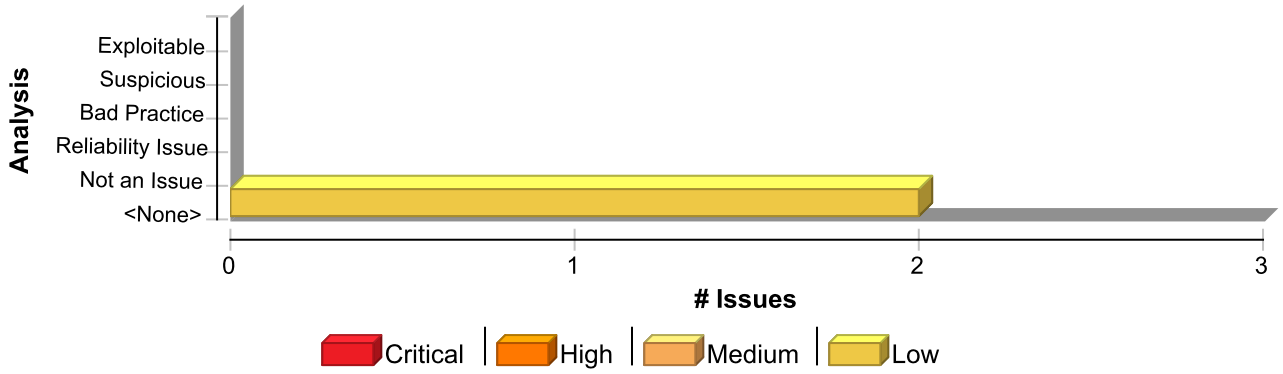

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Poor Error Handling: Overly Broad Catch	2	0	0	2
Total	**2**	**0**	**0**	**2**

Poor Error Handling: Overly Broad Catch — Low

Package: akka.stream.impl.fusing

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1587 (Poor Error Handling: Overly Broad Catch) — Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: genString()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:1587
Taint Flags:

```
1584 override def genString(t: Materializer): String = {
1585 try s"$DefaultLoggerName(${t.supervisor.path})"
1586 catch {
1587 case _: Exception => LogSource.fromString.genString(DefaultLoggerName)
1588 }
1589 }
1590
```

src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1707 (Poor Error Handling: Overly Broad Catch) — Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

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Poor Error Handling: Overly Broad Catch	Low
Package: akka.stream.impl.fusing	
src/main/scala/akka/stream/impl/fusing/Ops.scala, line 1707 (Poor Error Handling: Overly Broad Catch)	**Low**

Enclosing Method: genString()
File: src/main/scala/akka/stream/impl/fusing/Ops.scala:1707
Taint Flags:

```
1704 override def genString(t: Materializer): String = {
1705 try s"$DefaultLoggerName(${t.supervisor.path})"
1706 catch {
1707 case _: Exception => LogSource.fromString.genString(DefaultLoggerName)
1708 }
1709 }
1710
```


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Poor Error Handling: Throw Inside Finally (3 issues)

Abstract

Using a `throw` statement inside a `finally` block breaks the logical progression through the `try-catch-finally`.

Explanation

In Java, `finally` blocks are always executed after their corresponding `try-catch` blocks and are often used to free allocated resources, such as file handles or database cursors. Throwing an exception in a `finally` block can bypass critical cleanup code since normal program execution will be disrupted. **Example 1:** In the following code, the call to `stmt.close()` is bypassed when the `FileNotFoundException` is thrown.

```
public void processTransaction(Connection conn) throws FileNotFoundException
{
    FileInputStream fis = null;
    Statement stmt = null;
    try
    {
        stmt = conn.createStatement();
        fis = new FileInputStream("badFile.txt");
        ...
    }
    catch (FileNotFoundException fe)
    {
        log("File not found.");
    }
    catch (SQLException se)
    {
        //handle error
    }
    finally
    {
        if (fis == null)
        {
            throw new FileNotFoundException();
        }

        if (stmt != null)
        {
            try
            {
                stmt.close();
            }
            catch (SQLException e)
            {
                log(e);
            }
        }
    }
}
```

This category is from the Cigital Java Rulepack.

Recommendation

Never throw exceptions from within `finally` blocks. If you must re-throw an exception, do it inside a `catch` block so as not to interrupt the normal execution of the `finally` block. **Example 2:** The following code re-throws the

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`FileNotFoundException` in the `catch` block.

```
public void processTransaction(Connection conn) throws FileNotFoundException
{
    FileInputStream fis = null;
    Statement stmt = null;
    try
    {
        stmt = conn.createStatement();
        fis = new FileInputStream("badFile.txt");
        ...
    }
    catch (FileNotFoundException fe)
    {
        log("File not found.");
        throw fe;
    }
    catch (SQLException se)
    {
        //handle error
    }
    finally
    {
        if (fis != null)
        {
            try
            {
                fis.close();
            }
            catch (IOException ie)
            {
                log(ie);
            }
        }

        if (stmt != null)
        {
            try
            {
                stmt.close();
            }
            catch (SQLException e)
            {
                log(e);
            }
        }
    }
}
```

Issue Summary

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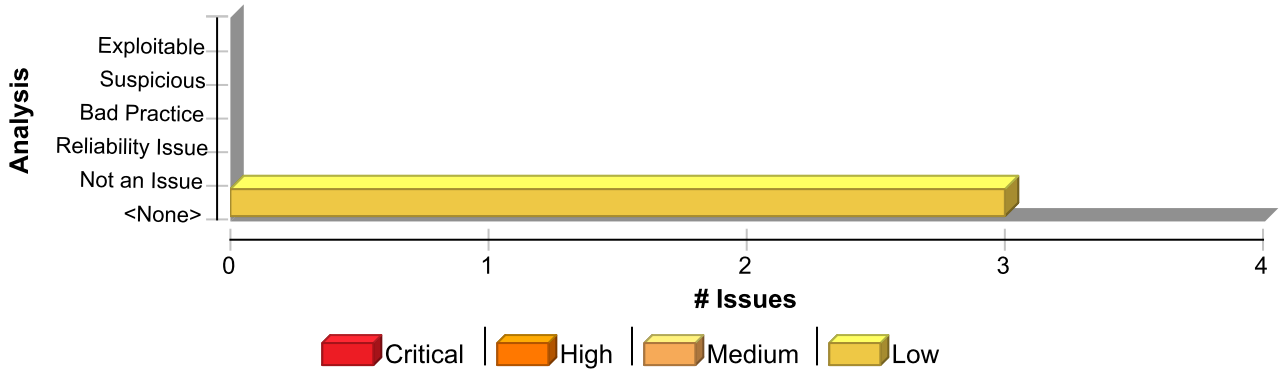

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Poor Error Handling: Throw Inside Finally	3	0	0	3
Total	**3**	**0**	**0**	**3**

Poor Error Handling: Throw Inside Finally — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/StreamLayout.scala, line 194 (Poor Error Handling: Throw Inside Finally) — Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: FinallyBlock
Enclosing Method: onSubscribe()
File: src/main/scala/akka/stream/impl/StreamLayout.scala:194
Taint Flags:

```
191
192 if (s == null) {
193 val ex = subscriptionMustNotBeNullException
194 try rec(ErrorPublisher(ex, "failed-VirtualProcessor"))
195 finally throw ex // must throw NPE, rule 2:13
196 } else rec(s)
197 }
```

src/main/scala/akka/stream/impl/StreamLayout.scala, line 155 (Poor Error Handling: Throw Inside Finally) — Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: FinallyBlock

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Poor Error Handling: Throw Inside Finally — Low

Package: akka.stream.impl

src/main/scala/akka/stream/impl/StreamLayout.scala, line 155 (Poor Error Handling: Throw Inside Finally) — Low

Enclosing Method: subscribe()
File: src/main/scala/akka/stream/impl/StreamLayout.scala:155
Taint Flags:

```
152
153 if (s == null) {
154 val ex = subscriberMustNotBeNullException
155 try rec(Inert.subscriber)
156 finally throw ex // must throw NPE, rule 2:13
157 } else rec(s.asInstanceOf[Subscriber[Any]])
158 }
```

src/main/scala/akka/stream/impl/PhasedFusingActorMaterializer.scala, line 554 (Poor Error Handling: Throw Inside Finally) — Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: FinallyBlock
Enclosing Method: materialize()
File: src/main/scala/akka/stream/impl/PhasedFusingActorMaterializer.scala:554
Taint Flags:

```
551
552 def shutdownWhileMaterializingFailure =
553 new IllegalStateException("Materializer shutdown while materializing stream")
554 try {
555 islandTracking.getCurrentPhase.onIslandReady()
556 islandTracking.allNestedIslandsReady()
557
```


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