

Overview Package **Class** Tree Deprecated Index Help

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org.aspectj.lang

Interface **JoinPoint**

11 - Sep - 2012 - initiated & completed.

All Known Subinterfaces:
[ProceedingJoinPoint](#)

public interface **JoinPoint**

Provides reflective access to both the [state available](#) at a join point and [static information](#) about it. This information is available from the body of advice using the special form `thisJoinPoint`. The primary use of this reflective information is for tracing and logging applications.

```
aspect Logging {
    before(): within(com.bigboxco..*) && execution(public * *(..)) {
        System.err.println("entering: " + thisJoinPoint);
        System.err.println("  w/args: " + thisJoinPoint.getArgs());
        System.err.println("    at: " + thisJoinPoint.getSourceLocation());
    }
}
```

Nested Class Summary

static interface	JoinPoint.EnclosingStaticPart
static interface	JoinPoint.StaticPart This helper object contains only the static information about a join point.

Field Summary

static java.lang.String	ADVICE_EXECUTION
static java.lang.String	CONSTRUCTOR_CALL
static java.lang.String	CONSTRUCTOR_EXECUTION
static java.lang.String	EXCEPTION_HANDLER
static java.lang.String	FIELD_GET
static java.lang.String	FIELD_SET
static java.lang.String	INITIALIZATION
static java.lang.String	

	METHOD_CALL
static java.lang.String	METHOD_EXECUTION The legal return values from getKind()
static java.lang.String	PREINITIALIZATION
static java.lang.String	STATICINITIALIZATION
static java.lang.String	SYNCHRONIZATION_LOCK
static java.lang.String	SYNCHRONIZATION_UNLOCK

Method Summary	
java.lang.Object[]	getArgs() Returns the arguments at this join point.
java.lang.String	getKind() Returns a String representing the kind of join point. method-execution
Signature	getSignature() Returns the signature at the join point.
SourceLocation	getSourceLocation() Returns the source location corresponding to the join point.
JoinPoint.StaticPart	getStaticPart() Returns an object that encapsulates the static parts of this join point.
java.lang.Object	getTarget() Returns the target object. both method return same object.
java.lang.Object	getThis() Returns the currently executing object. these two return pointcut expression
java.lang.String	toLongString() Returns an extended string representation of the join point.
java.lang.String	toShortString() Returns an abbreviated string representation of the join point.
java.lang.String	toString()

Field Detail

METHOD_EXECUTION

static final java.lang.String **METHOD_EXECUTION**

The legal return values from getKind()

See Also:

[Constant Field Values](#)

METHOD_CALL

```
static final java.lang.String METHOD_CALL
```

See Also:

[Constant Field Values](#)

CONSTRUCTOR_EXECUTION

```
static final java.lang.String CONSTRUCTOR_EXECUTION
```

See Also:

[Constant Field Values](#)

CONSTRUCTOR_CALL

```
static final java.lang.String CONSTRUCTOR_CALL
```

See Also:

[Constant Field Values](#)

FIELD_GET

```
static final java.lang.String FIELD_GET
```

See Also:

[Constant Field Values](#)

FIELD_SET

```
static final java.lang.String FIELD_SET
```

See Also:

[Constant Field Values](#)

STATICINITIALIZATION

```
static final java.lang.String STATICINITIALIZATION
```

See Also:

[Constant Field Values](#)

PREINITIALIZATION

```
static final java.lang.String PREINITIALIZATION
```

See Also:
[Constant Field Values](#)

INITIALIZATION

`static final java.lang.String` **INITIALIZATION**

See Also:
[Constant Field Values](#)

EXCEPTION_HANDLER

`static final java.lang.String` **EXCEPTION_HANDLER**

See Also:
[Constant Field Values](#)

SYNCHRONIZATION_LOCK

`static final java.lang.String` **SYNCHRONIZATION_LOCK**

See Also:
[Constant Field Values](#)

SYNCHRONIZATION_UNLOCK

`static final java.lang.String` **SYNCHRONIZATION_UNLOCK**

See Also:
[Constant Field Values](#)

ADVICE_EXECUTION

`static final java.lang.String` **ADVICE_EXECUTION**

See Also:
[Constant Field Values](#)

Method Detail

toString

`java.lang.String` **toString()**

Overrides:
toString in class `java.lang.Object`

toShortString

```
java.lang.String toShortString()
```

Returns an abbreviated string representation of the join point.

toLongString

```
java.lang.String toLongString()
```

Returns an extended string representation of the join point.

getThis

```
java.lang.Object getThis()
```

Returns the currently executing object. This will always be the same object as that [matched by the `this` pointcut designator](#). Unless you specifically need this reflective access, you should use [the `this` pointcut designator to get](#) at this object for better static typing and performance.

Returns null when there is no currently executing object available. This includes all join points that occur in a static context.

getTarget

```
java.lang.Object getTarget()
```

Returns the target object. This will always be the same object as that matched by the `target` pointcut designator. Unless you specifically need this reflective access, you should use the `target` pointcut designator to get at this object for better static typing and performance.

Returns null when there is no target object.

getArgs

```
java.lang.Object[] getArgs()
```

Returns the arguments at this join point.

getSignature

```
Signature getSignature()
```

Returns the signature at the join point. `getStaticPart().getSignature()` returns the same object

getSourceLocation

```
SourceLocation getSourceLocation()
```

Spring AOP does not support line no, file name

Returns the source location corresponding to the join point.

If there is no source location available, returns null.

Returns the SourceLocation of the defining class for default constructors.

`getStaticPart().getSourceLocation()` returns the same object.

getKind

`java.lang.String` **getKind()**

Returns a String representing the kind of join point. This String is guaranteed to be interned.

`getStaticPart().getKind()` returns the same object.

getStaticPart

[JoinPoint.StaticPart](#) **getStaticPart()**

Returns an object that encapsulates the static parts of this join point.

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org.aspectj.lang

Interface ProceedingJoinPoint

All Superinterfaces:

[JoinPoint](#)

public interface **ProceedingJoinPoint**
extends [JoinPoint](#)

ProceedingJoinPoint exposes the proceed(..) method in [order to support around advice in @AJ aspects](#)

Author:

[Alexandre Vasseur](#)

Nested Class Summary

Nested classes/interfaces inherited from interface org.aspectj.lang.[JoinPoint](#)

[JoinPoint.EnclosingStaticPart](#), [JoinPoint.StaticPart](#)

Field Summary

Fields inherited from interface org.aspectj.lang.[JoinPoint](#)

[ADVICE_EXECUTION](#), [CONSTRUCTOR_CALL](#), [CONSTRUCTOR_EXECUTION](#), [EXCEPTION_HANDLER](#), [FIELD_GET](#), [FIELD_SET](#), [INITIALIZATION](#), [METHOD_CALL](#), [METHOD_EXECUTION](#), [PREINITIALIZATION](#), [STATICINITIALIZATION](#), [SYNCHRONIZATION_LOCK](#), [SYNCHRONIZATION_UNLOCK](#)

Method Summary

java.lang.Object	proceed () Proceed with the next advice or target method invocation
java.lang.Object	proceed (java.lang.Object[] args) Proceed with the next advice or target method invocation
void	set\$AroundClosure (org.aspectj.runtime.internal.AroundClosure arc) The joinpoint needs to know about its closure so that proceed can delegate to closure.run() This internal method should not be called directly, and won't be visible to the end-user when packed in a jar (synthetic method)

Methods inherited from interface org.aspectj.lang.[JoinPoint](#)

[getArgs](#), [getKind](#), [getSignature](#), [getSourceLocation](#), [getStaticPart](#), [getTarget](#), [getThis](#),

[toLongString](#), [toShortString](#), [toString](#)

Method Detail

set\$AroundClosure

```
void set$AroundClosure(org.aspectj.runtime.internal.AroundClosure arc)
```

The joinpoint needs to know about its closure so that proceed can delegate to closure.run()

This internal method should not be called directly, and won't be visible to the end-user when packed in a jar (synthetic method)

Parameters:

arc -

proceed

```
java.lang.Object proceed()
                throws java.lang.Throwable
```

Proceed with the next advice or target method invocation

Returns:

Throws:

java.lang.Throwable

proceed

```
java.lang.Object proceed(java.lang.Object[] args)
                throws java.lang.Throwable
```

Proceed with the next advice or target method invocation

Unlike code style, proceed(..) in annotation style places different requirements on the parameters passed to it. The proceed(..) call takes, in this order:

- If 'this()' was used in the pointcut for binding, it must be passed **first** in proceed(..).
- If 'target()' was used in the pointcut for binding, it must be passed **next** in proceed(..) - it will be the first argument to proceed(..) if this() was not used for binding.
- Finally come all the arguments expected at the join point, in the order they are supplied at the join point. Effectively the advice signature is ignored - it doesn't matter if a subset of arguments were bound or the ordering was changed in the advice signature, the proceed(..) calls takes all of them in the right order for the join point.

Since proceed(..) in this case takes an Object array, AspectJ cannot do as much compile time checking as it can for code style. If the rules above aren't obeyed then it will unfortunately manifest as a runtime error.

Parameters:

args -

Returns:

Throws:

java.lang.Throwable

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org.aspectj.lang

Interface Signature

All Known Subinterfaces:

[AdviceSignature](#), [CatchClauseSignature](#), [CodeSignature](#), [ConstructorSignature](#), [FieldSignature](#), [InitializerSignature](#), [LockSignature](#), [MemberSignature](#), [MethodSignature](#), [UnlockSignature](#)

All Known Implementing Classes:

[FieldSignatureImpl](#)

```
public interface Signature
```

Represents the signature at a join point. This [interface parallels](#) [java.lang.reflect.Member](#).

This interface is typically used for tracing or logging applications to obtain reflective information about the join point, i.e. using the j2se 1.4 [java.util.logging](#) API

```
aspect Logging {
    Logger logger = Logger.getLogger("MethodEntries");

    before(): within(com.bigboxco..*) && execution(public * *(..)) {
        Signature sig = thisJoinPoint.getSignature();
        logger.entering(sig.getDeclaringType().getName(),
                       sig.getName());
    }
}
```

More detailed information about a specific kind of signature can be obtained by casting this `Signature` object into one of its more specific sub-types available in `org.aspectj.lang.reflect`.

See Also:

`Member`, `java.util.logging.Logger`

Method Summary

java.lang.Class	getDeclaringType() Returns a <code>java.lang.Class</code> object representing the class, interface, or aspect that declared this member.
java.lang.String	getDeclaringTypeName() Returns the fully-qualified name of the declaring type.
int	getModifiers() Returns the modifiers on this signature represented as an int.
java.lang.String	getName() Returns the identifier part of this signature.
java.lang.String	toLongString() Returns an extended string representation of this signature.
java.lang.String	toShortString() Returns a short string representation of this signature.

	toShortString Returns an abbreviated string representation of this signature.
java.lang.String	toString ()

Method Detail

toString

java.lang.String **toString**()

Overrides:
toString in class java.lang.Object

toShortString

java.lang.String **toShortString**()

Returns an abbreviated string representation of this signature.

toLongString

java.lang.String **toLongString**()

Returns an extended string representation of this signature.

getName

java.lang.String **getName**()

Returns the identifier part of this signature. For methods this will return the method name.

See Also: [i will use this for logging](#)
Member.getName ()

getModifiers

int **getModifiers**()

Returns the modifiers on this signature represented as an int. Use the constants and helper methods defined on [java.lang.reflect.Modifier](#) to manipulate this, i.e.

```
// check if this signature is public
java.lang.reflect.Modifier.isPublic(sig.getModifiers());

// print out the modifiers
java.lang.reflect.Modifier.toString(sig.getModifiers());
```

See Also:

Member.getModifiers(), Modifier

getDeclaringType

dont use this for simply get class name
for logging.

java.lang.Class **getDeclaringType**()

Returns a java.lang.Class object representing the class, interface, or aspect that declared this member. For intra-member declarations, this will be the type on which the member is declared, not the type where the declaration is lexically written. Use SourceLocation.getWithinType() to get the type in which the declaration occurs lexically.

For consistency with java.lang.reflect.Member, this method should have been named getDeclaringClass().

See Also:

Member.getDeclaringClass()

getDeclaringTypeName

use this... to get class name for logging

java.lang.String **getDeclaringTypeName**()

Returns the fully-qualified name of the declaring type. This is equivalent to calling getDeclaringType().getName(), but caches the result for greater efficiency.

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11 - sep - 2012