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1.6 taglibs-standard-spec 1.2.5

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1.9 aspect-j 1.8.0

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1.10 slf4j 1.7.21

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1.11 jboss-logging 3.3.2.Final

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1.12 jaxb-runtime 2.3.1

1.13 commons-beanutils 1.9.4

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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
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HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in

README.changes. My apologies for any omissions.

The SPARC specific code was

originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied

the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to

a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to

nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the

experimentation that led to the

current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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@page
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@smallexample

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@end smallexample

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@example

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@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

@end example

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@c man end

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Directory native/fdlibm

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The upstream for fdlibm is libgcj (<http://gcc.gnu.org/java/>), they sync
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* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/media/DiscriminatorMapping.java
* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/extensions/Extensions.java
* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/Hidden.java
* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/servers/ServerVariable.java
```

1.31 springfoxswagger 3.0.0

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```

Found in path(s):

```
*/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/BasicAuthFactory.java
*/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/ExamplesMapper.java
*/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/OAuth2AuthFactory.java
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* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/InheritanceDeterminer.java
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* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/SerializableParameterFactories.java

```

* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/EnumMapper.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/ApiKeyAuthFactory.java
*
/springfox-swagger2-3-0-0-sources-
jar/springfox/documentation/swagger2/configuration/Swagger2JacksonModule.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/ParameterMapper.java
* /springfox-swagger2-3-0-0-sources-
jar/springfox/documentation/swagger2/mappers/VendorExtensionsMapper.java
* /springfox-swagger2-3-0-0-sources-
jar/springfox/documentation/swagger2/mappers/ServiceModelToSwagger2Mapper.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/ModelMapper.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/SecurityMapper.java
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```

Found in path(s):

```

* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/web/Swagger2ControllerWebFlux.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/web/Swagger2ControllerWebMvc.java
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- * /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/annotations/EnableSwagger2WebFlux.java
- * /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/annotations/EnableSwagger2.java
- * /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/SerializableParameterFactory.java
- *
- /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/annotations/EnableSwagger2WebMvc.java
- * /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/LicenseMapper.java
- * /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/SecuritySchemeFactory.java

1.32 springfox-swagger-ui 3.0.0

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1.33 springfox-swagger-common 3.0.0

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```
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/OperationSummaryReader.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/OperationNotesReader.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/OperationHttpMethodReader.java
*
/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/annotations/Annotations.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/SwaggerOperationModelsProvider.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/OpenApiOperationTagsReader.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/SwaggerMediaTypeReader.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/VendorExtensionsReader.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/OperationNicknameIntoUniqueIdReader.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/SwaggerOperationTagsReader.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/OperationPositionReader.java
*
/springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/OperationHiddenReader.java
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jar/springfox/documentation/swagger/readers/parameter/ParameterAnnotationReader.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/schema/ApiModelBuilder.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/web/SwaggerResourcesProvider.java
*
/springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/configuration/SwaggerCommonConfiguration.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/ApiKeyVehicle.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/common/SwaggerPluginSupport.java
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- * /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/UiConfiguration.java
- * /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SecurityConfiguration.java
- * /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SwaggerResource.java
- *

/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/common/XForwardPrefixPathAdjuster.java

- * /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/parameter/Examples.java

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- * /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/schema/ApiModelProperties.java
- * /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OpenApiResponseReader.java
- *

/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/InMemorySwaggerResourcesProvider.java

- * /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/schema/ApiModelTypeNameProvider.java


```

* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/ResponseHeaders.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/parameter/ApiParamParameterBuilder.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/parameter/SwaggerExpandedParameterBuilder.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/web/ApiResourceController.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/OpenApiOperationAuthReader.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/web/SwaggerApiListingReader.java
*

/springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/schema/ApiModelPropertyPropertyBuilder.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/OperationImplicitParametersReader.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/SwaggerOperationResponseClassReader.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/SwaggerResponseMessageReader.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/common/HostNameProvider.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/OperationAuthReader.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/parameter/OpenApiParameterBuilder.java
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- * /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/OperationsSorter.java
- * /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/ModelRendering.java
- * /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/UiConfigurationBuilder.java
- *
- /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/DocExpansion.java
- * /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/TagsSorter.java
- * /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SecurityConfigurationBuilder.java

1.34 springfox-core 3.0.0

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- * /springfox-core-3-0-0-sources-jar/springfox/documentation/service/SecurityScheme.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/service/Parameter.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/service/OAuth.java
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- /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiKey.java

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```

* /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/AlternateTypeRuleConvention.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/AlternateTypePropertyBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/AlternateTypeBuilder.java
*
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/Server.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/DocumentationReference.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ServerVariable.java

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```

* /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/ClassSupport.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/Documentation.java

```

```

* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResourceGroup.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/Enums.java
*
/springfox-core-3-0-0-sources-jar/springfox/documentation/service/SecurityReference.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/OperationBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/Tag.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ResourceListingBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiListing.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/WildcardType.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ObjectVendorExtension.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/Operation.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ApiListingBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResolvedMethodParameter.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ModelPropertyBuilder.java
*
/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiDescription.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/BuilderDefaults.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ApiDescriptionBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ModelBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/RequestParameterMerger.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/DocumentationBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/Tags.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/ModelProperty.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ApiInfoBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/MediaTypes.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/ModelRef.java
*
/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ParameterBuilder.java
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```

* /springfox-core-3-0-0-sources-jar/springfox/documentation/RequestHandlerKey.java

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* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/RequestHandlerSelectors.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/RequestHandler.java

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```
*/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/Example.java
*/springfox-core-3-0-0-sources-jar/springfox/documentation/common/ClassPresentInClassPathCondition.java
*/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ListVendorExtension.java
*/
/springfox-core-3-0-0-sources-jar/springfox/documentation/common/SpringVersionCapability.java
*/springfox-core-3-0-0-sources-jar/springfox/documentation/common/ClassNotPresentInClassPathCondition.java
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* /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/ModelReference.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/LoginEndpoint.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/LoginEndpointBuilder.java

*

/* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/Contact.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/StringVendorExtension.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/annotations/Cacheable.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/AuthorizationCodeGrantBuilder.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiInfo.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/OperationNameGenerator.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiListingReference.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/AllowableValues.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/annotations/ApiIgnore.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/AuthorizationScopeBuilder.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/AlternateTypeRule.java

*

/* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/TokenRequestEndpointBuilder.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ImplicitGrant.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/OAuthBuilder.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/PathSelectors.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/XML.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/VendorExtension.java

- * /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ClientCredentialsGrant.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/spring/wrapper/NameValueExpression.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/service/GrantType.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/annotations/Incubating.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/AlternateTypeRules.java
- *
- /springfox-core-3-0-0-sources-jar/springfox/documentation/service/TokenEndpoint.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/service/AuthorizationCodeGrant.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/PathProvider.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/service/AuthorizationScope.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/spring/wrapper/RequestMappingInfo.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResourceListing.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/service/CredentialsGrant.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/service/AllowableRangeValues.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/TokenEndpointBuilder.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/service/AllowableListValues.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ImplicitGrantBuilder.java
- *
- /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResourceOwnerPasswordCredentialsGrant.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/Entry.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/service/TokenRequestEndpoint.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/spring/wrapper/PatternsRequestCondition.java
- * /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResponseMessage.java

1.35 springfox-spring-web 3.0.0

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- * /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ComparisonCondition.java

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jar/springfox/documentation/spring/web/scanners/ApiDescriptionLookup.java
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* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/operation/OperationDeprecatedReader.java
*
/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/OperationCachingEquivalence.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/operation/OperationModelsProvider.java
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- * /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ApiListingReferenceScanner.java
- *
- /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/DuplicateGroupsDetector.java
- * /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/DescriptionResolver.java
- * /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ModelAttributeField.java
- * /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/ApiOperationReader.java
- * /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ApiModelReader.java
- * /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/Docket.java
- * /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/OperationResponseClassReader.java
- * /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ExpandedParameterBuilder.java
- *
- /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/OperationParameterReader.java
- * /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/CachingOperationNameGenerator.java
- * /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ApiListingScanner.java
- * /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ParameterRequiredReader.java
- * /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ApiDescriptionReader.java

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* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/ControllerNamingUtils.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/paths/Paths.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/plugins/DocumentationPluginsBootstrapper.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/scanners/ApiDocumentationScanner.java
*
/springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/paths/QueryStringUriTemplateDecorator.java
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* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/json/JacksonModuleRegistrar.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/scanners/CachingOperationReader.java
*
/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/paths/OperationPathDecorator.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/scanners/ApiListingReferenceScanResult.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/paths/PathSanitizer.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/operation/OperationTagsReader.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/parameter/ParameterMultiplesReader.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ApiListingReader.java
* /springfox-spring-web-3-0-0-sources-

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jar/springfox/documentation/spring/web/readers/operation/OperationReader.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/paths/PathMappingAdjuster.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/parameter/ParameterDefaultReader.java
*
/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/DefaultConfiguration.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/DocumentationCache.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/json/Json.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/scanners/ApiListingScanningContext.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/paths/DefaultPathProvider.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/paths/PathMappingDecorator.java
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* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/operation/AbstractOperationParameterRequestConditionReader.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/plugins/CombinedRequestHandler.java
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jar/springfox/documentation/spring/web/plugins/SpringIntegrationPluginNotPresentInClassPathCondition.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ResourceGroups.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/parameter/ExpansionContext.java
*
/springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/plugins/DefaultRequestHandlerCombiner.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/parameter/ModelAttributeParameterMetadataAccessor.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/plugins/JacksonSerializerConvention.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/parameter/ParameterTypeDeterminer.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/plugins/PathAndParametersEquivalence.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/plugins/ResolvedMethodParameterEquivalence.java
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```
* /springfox-spring-web-3-0-0-sources-  
jar/springfox/documentation/spring/web/readers/operation/OperationParameterRequestConditionReader.java  
* /springfox-spring-web-3-0-0-sources-  
jar/springfox/documentation/spring/web/readers/operation/OperationParameterHeadersConditionReader.java
```

1.36 springfox-spi 3.0.0

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* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/ParameterMetadataAccessor.java  
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/SyntheticModelProviderPlugin.java  
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/RequestHandlerCombiner.java
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* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/UniqueTypeNameAdapter.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/ViewProviderPlugin.java

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* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/OperationContext.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ResponseContext.java
*
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/DocumentationContextBuilder.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/PathContext.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/AlternateTypeProvider.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/contexts/ModelContext.java
* /springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/service/contexts/OperationModelContextsBuilder.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/DocumentationContext.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/Defaults.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/RequestMappingContext.java

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* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ParameterExpansionContext.java

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* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/RequestHandlerProvider.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/ParameterBuilderPlugin.java

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/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/OperationBuilderPlugin.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/DefaultsProviderPlugin.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/DocumentationPlugin.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/ModelPropertyBuilderPlugin.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ApiListingContext.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/OperationModelsProviderPlugin.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/contexts/ModelPropertyContext.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/ApiListingBuilderPlugin.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/service/PathAdjuster.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ApiSelector.java

*

/springfox-spi-3-0-0-sources-jar/springfox/documentation/service/PathDecorator.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/GenericTypeNamingStrategy.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/ModelBuilderPlugin.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/SecurityContext.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/TypeNameProviderPlugin.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/DocumentationType.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/EnumTypeDeterminer.java

1.37 springfox-schema 3.0.0

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* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ModelProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/Maps.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/CodeGenGenericTypeNamingStrategy.java
*
/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/Collections.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/PojoPropertyBuilderFactory.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultTypeNameProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/BeanPropertyDefinitions.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/field/FieldModelProperty.java
* /springfox-schema-3-0-0-sources-
jar/springfox/documentation/schema/configuration/ObjectMapperConfigured.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ModelSpecificationProvider.java
* /springfox-schema-3-0-0-sources-
jar/springfox/documentation/schema/property/bean/ParameterModelProperty.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/ModelProperty.java
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/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/BeanPropertyNamingStrategy.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/SchemaPluginsManager.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultGenericTypeNamingStrategy.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/configuration/ModelsConfiguration.java
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* /springfox-schema-3-0-0-sources-
jar/springfox/documentation/schema/property/CachingModelPropertiesProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/Accessors.java
*
/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ModelReferenceProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/BeanModelProperty.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ResolvedTypes.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/AccessorsProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/FactoryMethodProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/field/FieldProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/Annotations.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultModelSpecificationProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultModelProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultModelDependencyProvider.java
*
/springfox-schema-3-0-0-sources-
jar/springfox/documentation/schema/property/OptimizedModelPropertiesProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/TypeNameExtractor.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/CachingModelProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/CachingModelDependencyProvider.java
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jar/springfox/documentation/schema/property/ObjectMapperBeanPropertyNameingStrategy.java
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* /springfox-schema-3-0-0-sources-
jar/springfox/documentation/schema/plugins/PropertyDiscriminatorBasedInheritancePlugin.java
*

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/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/XmlPropertyPlugin.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/JacksonXmlModelPlugin.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/JsonIgnorePropertiesModelPlugin.java
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1.38 telnetd-x 2.1.1

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1.40 commons-lang3 3.7

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1.41 txw2 2.3.1

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1.43 jackson-mapper-asl 1.9.13.redhat-00007

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1.44 commons-lang3 2.6

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1.45 commons-logging 1.2

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1.46 classmate 1.3.4

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Other developers who have contributed code are:

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1.47 stax 4.2.1

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1.48 jakarta-annotation-api 1.3.5

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Source Code

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- * <https://github.com/eclipse-ee4j/common-annotations-api>

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1.49 classmate 1.5.1

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

1.50 mapstruct 1.3.1.Final

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1.51 bouncy-castle 124

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1.52 jax-ws-api 2.2.2-promoted-b02

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- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/RequestWrapper.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/handler/MessageContext.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/ResponseWrapper.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/Response.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/spi/http/HttpExchange.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/WebServiceRef.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/spi/http/HttpHandler.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/handler/Handler.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/BindingType.java
- *
- /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/WebServiceException.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/Service.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/RespectBinding.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/soap/AddressingFeature.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/Endpoint.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/Action.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/wsaddressing/package-info.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/WebServiceRefs.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/Binding.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/EndpointReference.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/handler/HandlerResolver.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/ServiceContext.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/ServiceProvider.java
- *
- /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/Provider.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/handler/soap/SoapMessageContext.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/handler/PortInfo.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/AsyncHandler.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/ServiceClient.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/ServiceMode.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/RespectBindingFeature.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/Dispatch.java
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- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/ServiceFeature.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/spi/ServiceFeatureAnnotation.java
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- *
- /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/soap/MTOM.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/http/HTTPBinding.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/spi/ServiceDelegate.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/WebFault.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/BindingProvider.java
- * /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/handler/soap/SoapHandler.java

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* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/handler/LogicalMessageContext.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/soap/MTOMFeature.java
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*
/jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/EndpointContext.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/soap/Addressing.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/spi/FactoryFinder.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/FaultAction.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/soap/SOAPFaultException.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/WebServicePermission.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/soap/SOAPBinding.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/spi/http/HttpContext.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/ProtocolException.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/http/HTTPException.java
No license file was found, but licenses were detected in source scan.

```

```

/*
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* $Id: Invoker.java,v 1.1.2.5 2009/02/18 00:21:32 jitu Exp $
*/

```

Found in path(s):

```

* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/spi/Invoker.java
No license file was found, but licenses were detected in source scan.

```

```

/*
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* $Id: Provider.java,v 1.9.2.15 2009/09/08 20:27:02 jitu Exp $
*/

```

Found in path(s):

```

* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/spi/Provider.java

```

1.53 javax.xml-soap-api 1.4.0

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- * Source: <https://www.w3.org/2006/03/addressing/ws-addr.xsd>

wsat.xsd Version: 2004/10 (n/a)

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wsm Version: 2005/02 (n/a)

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- * Source:
<http://schemas.xmlsoap.org/ws/2005/02/rm/wsm.xsd;%20http://schemas.xmlsoap.org/ws/2005/02/rm/wsm-policy.xsd>

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1.61 springfox-spring-webflux 3.0.0

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1.62 classgraph 4.8.83

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1.63 gridx 1.3.2

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* /asm-9-1-sources-2-jar/org/objectweb/asm/ClassTooLargeException.java
* /asm-9-1-sources-2-jar/org/objectweb/asm/ClassVisitor.java
* /asm-9-1-sources-2-jar/org/objectweb/asm/Label.java
* /asm-9-1-sources-2-jar/org/objectweb/asm/Type.java
* /asm-9-1-sources-2-jar/org/objectweb/asm/Constants.java
* /asm-9-1-sources-2-jar/org/objectweb/asm/ModuleVisitor.java
* /asm-9-1-sources-2-jar/org/objectweb/asm/MethodWriter.java
* /asm-9-1-sources-2-jar/org/objectweb/asm/Frame.java
* /asm-9-1-sources-2-jar/org/objectweb/asm/Context.java
* /asm-9-1-sources-2-jar/org/objectweb/asm/Attribute.java
* /asm-9-1-sources-2-jar/org/objectweb/asm/Handle.java
* /asm-9-1-sources-2-jar/org/objectweb/asm/Symbol.java
```

1.66 swagger-annotations 1.5.20

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- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/ExampleProperty.java
- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/ApiResponse.java
- *
- /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/ApiImplicitParam.java
- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/ApiParam.java
- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/Api.java
- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/Tag.java
- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/AuthorizationScope.java
- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/ApiModelProperty.java
- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/Contact.java
- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/ExternalDocs.java
- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/Authorization.java
- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/ResponseHeader.java
- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/Info.java
- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/ApiImplicitParams.java
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- /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/ApiOperation.java
- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/ApiModel.java
- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/ExtensionProperty.java
- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/Example.java
- * /swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/SwaggerDefinition.java
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1.67 swagger 1.5.20

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1.68 xsdlib 2013.6.1

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* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/RegularExpression.java
*
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/Match.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/Op.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/REUtil.java
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- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/BigTimeDurationValueType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NonPositiveIntegerType.java
- *
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- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/TotalDigitsFacet.java
- *
- /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/regex/RegExp.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/FinalComponent.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/GMonthType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/GMonthDayType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/PositiveIntegerType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DateTimeBaseType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnsignedByteType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/BooleanType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/LengthFacet.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/IntType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/GYearType.java

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* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/LongType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/IDateTimeValueType.java
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* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/DatabindableDatatype.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DateTimeType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnicodeUtil.java
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* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarParser.java
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* /xsdlib-2013-6-1-sources-2-jar/com/sun/xml/util/XmlChars.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/BigDateTimeValueType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/XmlNames.java
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* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ngimpl/DatatypeBuilderImpl.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnsignedIntType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/TypeIncubator.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/FloatingNumberType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/IntegerValueType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/ITimeDurationValueType.java
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/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MinExclusiveFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/StringType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ErrorType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NonNegativeIntegerType.java

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* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/ErrorDatatypeLibrary.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/FloatType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/WhiteSpaceProcessor.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DatatypeFactory.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MinLengthFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/FractionDigitsFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/IDREFTType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/regex/RegExpFactory.java
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/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/QnameType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MaxLengthFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/BinaryValueType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ngimpl/DatatypeLibraryImpl.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/Util.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NumberType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DateType.java
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* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MaxInclusiveFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ByteType.java
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1.69 java-cc 3.2

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1.70 json-java 20080701

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* /json-20080701-sources-jar-zip/json-20080701-sources-jar/org/json/JSONStringer.java
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* /json-20080701-sources-jar-zip/json-20080701-sources-jar/org/json/HTTPTokener.java
* /json-20080701-sources-jar-zip/json-20080701-sources-jar/org/json/JSONTokener.java
* /json-20080701-sources-jar-zip/json-20080701-sources-jar/org/json/XML.java
* /json-20080701-sources-jar-zip/json-20080701-sources-jar/org/json/CookieList.java
* /json-20080701-sources-jar-zip/json-20080701-sources-jar/org/json/CDL.java
* /json-20080701-sources-jar-zip/json-20080701-sources-jar/org/json/JSONObject.java
* /json-20080701-sources-jar-zip/json-20080701-sources-jar/org/json/Cookie.java
* /json-20080701-sources-jar-zip/json-20080701-sources-jar/org/json/JSONArray.java
* /json-20080701-sources-jar-zip/json-20080701-sources-jar/org/json/HTTP.java
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1.71 jradius-client 2.0.0

1.71.1 Available under license :

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Any executables

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1.72 bsf 2.4.0-4.1.el6

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1.73 jaxb-api 2.2.1

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* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/helpers/ValidationEventImpl.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/Messages.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/ValidationEventHandler.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/helpers/ValidationEventLocatorImpl.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/ValidationException.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/DatatypeConverter.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/Unmarshaller.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/helpers/AbstractMarshallerImpl.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/UnmarshallerHandler.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/helpers/Messages.java
*
/jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/PrintConversionEvent.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/Element.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/util/Messages.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/ParseConversionEvent.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/TypeConstraintException.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/util/JAXBResult.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/JAXBContext.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/ValidationEvent.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/ValidationEventLocator.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/UnmarshalException.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/NotIdentifiableEvent.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/helpers/ParseConversionEventImpl.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/MarshalException.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/helpers/NotIdentifiableEventImpl.java
*

/jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/util/JAXBSource.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/DatatypeConverterInterface.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/PropertyException.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/JAXBException.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/Marshaller.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/Validator.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/helpers/AbstractUnmarshallerImpl.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/util/ValidationEventCollector.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/helpers/DefaultValidationEventHandler.java
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* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/helpers/package.html
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/attachment/package.html
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/util/package.html
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* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlID.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlNsForm.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlEnumValue.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/adapters/NormalizedStringAdapter.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlRegistry.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlRootElement.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/JAXBIntrospector.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/adapters/XmlAdapter.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlType.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlElement.java
*
/jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlElementRef.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlNs.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlAttribute.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/JAXBElement.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlElementRefs.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlSchema.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/adapters/HexBinaryAdapter.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlValue.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlElementDecl.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlElements.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapter.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlTransient.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/adapters/CollapsedStringAdapter.java
*
/jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlIDREF.java
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* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlMimeType.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/Binder.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlAccessOrder.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/DomHandler.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapters.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlSchemaTypes.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlAnyElement.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlAccessorType.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlAccessorOrder.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlAnyAttribute.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/W3CDomHandler.java
*
/jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlSchemaType.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlMixed.java

```

* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlAttachmentRef.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlAccessType.java
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1.77 json-path 2.4.0

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- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/InvalidCriteriaException.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/JsonPathException.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/PredicateContextImpl.java
- *
- /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/Utils.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/function/latebinding/PathLateBindingValue.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/ParseContext.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Configuration.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/EvaluationListener.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/RootPathToken.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/JettisonProvider.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/CompiledPath.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/WriteContext.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Option.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/PredicatePathToken.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/InvalidPathException.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/Path.java
- *
- /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/ArrayPathToken.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/JsonProvider.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/ValueCompareException.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Predicate.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/JsonSmartMappingProvider.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/ReadContext.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/PathToken.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/AbstractJsonProvider.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Filter.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/JacksonJsonProvider.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/function/latebinding/JsonLateBindingValue.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/ScanPathToken.java
- *
- /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/cache/LRUCache.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/InvalidModificationException.java
- * /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/MappingException.java

```

* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/WildcardPathToken.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/TapestryMappingProvider.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Criteria.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/TypeRef.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/JsonContext.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/EvaluationContext.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/JacksonMappingProvider.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/DocumentContext.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/JsonSmartJsonProvider.java
*
/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/JsonFormatter.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/MappingProvider.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/GsonMappingProvider.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/JsonPath.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/EvaluationContextImpl.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/function/latebinding/ILateBindingValue.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/PropertyPathToken.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/GsonJsonProvider.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/PathNotFoundException.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/MapFunction.java

```

1.78 swagger-annotations 2.1.10

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Found in path(s):

```

* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/media/Encoding.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/parameters/RequestBody.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/Parameters.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/links/Link.java

```

```

*
/swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/callbacks/Callbacks.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/servers/ServerVariable.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/links/LinkParameter.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/headers/Header.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/security/OAuthFlows.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/media/ExampleObject.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/info/Info.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/security/OAuthFlow.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/security/SecurityRequirements.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/media/DiscriminatorMapping.java
*
/swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/Operation.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/callbacks/Callback.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/ExternalDocumentation.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/info/License.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/extensions/Extensions.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/responses/ApiResponse.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/Hidden.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/security/SecurityRequirement.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/responses/ApiResponse.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/media/Content.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/security/SecurityScheme.java
*
/swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/tags/Tag.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/security/OAuthScope.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/tags/Tags.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/OpenAPIDefinition.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/security/SecuritySchemes.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/servers/Servers.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/servers/Server.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/Parameter.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/info/Contact.java
* /swagger-annotations-2-1-10-sources-jar/io/swagger/v3/oas/annotations/media/Schema.java

```

1.79 crimson 1.1

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1.83 junit-platform-commons 1.8.2

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1.84 apiguardian-api 1.1.2

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1.85 antlr 4.9.0

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 */

/** templates used to generate make-compatible dependencies */

/** Generate "f : x, y, z" dependencies for input
 * dependencies and generated files. in and out
 * are File objects. For example, you can say
 * <f.canonicalPath>
 */
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>} ; separator="\n">
>>
```

Found in path(s):

```
* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/templates/depend.stg
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 */
```

```
javaTypeInitMap ::= [
  "int": "0",
  "long": "0",
  "float": "0.0f",
  "double": "0.0",
  "boolean": "false",
```

```

"byte": "0",
"short": "0",
"char": "0",
default: "null" // anything other than a primitive type is an object
]

```

// args must be <object-model-object>, <fields-resulting-in-STs>

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org antlr.v4.runtime.atn.*;
import org antlr.v4.runtime.dfa.DFA;
import org antlr.v4.runtime.*;
import org antlr.v4.runtime.misc.*;
import org antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>

```

```

ListenerFile(file,
  header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org antlr.v4.runtime.Token;
import org antlr.v4.runtime.misc.NotNull;
import org antlr.v4.runtime.tree.ParseTreeListener;

/**
 * This interface defines a complete listener for a parse tree produced by
 * {@link <file.parserName>}.
 */
public interface <file.grammarName>Listener extends ParseTreeListener {
  <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.{lname})>
 * Enter a parse tree produced by the {@code <lname>}
 * labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.{lname}>}.
<else>

```

```

* Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void enter<lname; format="cap">(@NotNull <file.parserName>.<lname; format="cap">Context ctx);
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced
  by the {@code <lname>}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void exit<lname; format="cap">(@NotNull <file.parserName>.<lname; format="cap">Context ctx);
separator="\n">
}
>>

```

```

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>

```

```

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.misc.NotNull;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

```

```

/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
public class <file.grammarName>BaseListener implements
  <file.grammarName>Listener {
  <file.listenerNames:{lname |
/**
* {@inheritDoc}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void enter<lname; format="cap">(@NotNull <file.parserName>.<lname; format="cap">Context
ctx) { \}

```



```

/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void exit<Iname; format="cap">(@NotNull <file.parserName>.<Iname; format="cap">Context
ctx) { \} }; separator="\n">

/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void enterEveryRule(@NotNull ParserRuleContext ctx) { }

/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void exitEveryRule(@NotNull ParserRuleContext ctx) { }

/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void visitTerminal(@NotNull TerminalNode node) { }

/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation
does nothing.\</p>
 */
@Override public void visitErrorNode(@NotNull ErrorNode node) { }
}
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.misc.NotNull;
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

```

```

/**
 * This interface defines a complete generic visitor for a parse tree produced

```

```

* by {@link <file.parserName>}.
*
* @param \<Result> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
public interface <file.grammarName>Visitor\<Result> extends ParseTreeVisitor\<Result> {
    <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>}.
<else>
* Visit a parse tree produced by {@link
<file.parserName>#<lname>}.
<endif>
* @param ctx the parse tree
* @return the visitor result
*/
Result visit<lname; format="cap">(@NotNull <file.parserName>.<lname; format="cap">Context ctx);
separator="\n"
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.misc.NotNull;
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<Result> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
public class <file.grammarName>BaseVisitor\<Result> extends AbstractParseTreeVisitor\<Result> implements
<file.grammarName>Visitor\<Result> {
    <file.visitorNames:{lname
    |
/**
* {@inheritDoc}
*

```

```

* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
@Override public Result visit<lname; format="cap">(@NotNull <file.parserName>.<lname;
format="cap">Context ctx) { return visitChildren(ctx); \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
public <if(parser.abstractRecognizer)>abstract <endif>class <parser.name> extends <superClass; null="Parser"> {
<if(parser.tokens)>
public static final int
<parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>
public static final int
<parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
private static
String[] makeRuleNames() {
return new String[] {
<parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};
}
public static final String[] ruleNames = makeRuleNames();

<vocabulary(parser.literalNames, parser.symbolicNames)>

@Override
public String getGrammarFileName() { return "<parser.grammarFileName; format="java-escape">"; }

@Override
public String[] getRuleNames() { return ruleNames; }

@Override
public String getSerializedATN() { return _serializedATN; }

@NotNull
private FailedPredicateException createFailedPredicateException() {
return createFailedPredicateException(null);
}

```

```

@NotNull
private FailedPredicateException createFailedPredicateException(@Nullable String predicate) {
    return createFailedPredicateException(predicate, null);
}

@NotNull
protected FailedPredicateException createFailedPredicateException(@Nullable String predicate, @Nullable String
message) {
    return new FailedPredicateException(this, predicate, message);
}

<namedActions.members>
<parser:(ctor)()>
<funcs;
separator="\n">

<if(sempredFuncs)>
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <parser.sempredFuncs.values:{f|
case <f.ruleIndex>:
return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
    }
    return true;
}
<sempredFuncs.values; separator="\n">
<endif>

<atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static String[] makeLiteralNames() {
    return new String[] {
        <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
    };
}
private static final String[] _LITERAL_NAMES = makeLiteralNames();
private static String[] makeSymbolicNames() {
    return new String[] {
        <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
    };
}
private static final String[] _SYMBOLIC_NAMES = makeSymbolicNames();
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
_SYMBOLIC_NAMES);

```

```

/**
 * @deprecated Use {@link #VOCABULARY}
 * instead.
 */
@Deprecated
public static final String[] tokenNames;
static {
    tokenNames = new String[_SYMBOLIC_NAMES.length];
    for (int i = 0; i < tokenNames.length; i++) {
        tokenNames[i] = VOCABULARY.getLiteralName(i);
        if (tokenNames[i] == null) {
            tokenNames[i] = VOCABULARY.getSymbolicName(i);
        }

        if (tokenNames[i] == null) {
            tokenNames[i] = "<INVALID>";
        }
    }
}

@Override
@Deprecated
public String[] getTokenNames() {
    return tokenNames;
}

@Override
@NotNull
public Vocabulary getVocabulary() {
    return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
    switch (ruleIndex) {
        <recog.actionFuncs.values:{f}
    case <f.ruleIndex>:
        <f.name>_action(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, actionIndex);
        break;}; separator="\n">
    }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override

```

```

public boolean sempred(RuleContext
    _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
    return <f.name>_sempred(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, predIndex);}; separator="\n">
    }
    return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

```

```

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
    super(input);
    _interp = new ParserATNSimulator(this,_ATN);
}
>>

```

/* This generates a private method since the actionIndex is generated, making an
 * overriding implementation impossible to maintain.
 */

```

RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
    switch (actionIndex) {
        <actions:{index|
case <index>:
        <actions.(index)>
        break;}; separator="\n">
    }
}
>>

```

/* This generates a private method since the predIndex is generated, making an
 * overriding implementation impossible to maintain.
 */

```

RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType>
    _localctx, int predIndex) {
    switch (predIndex) {
        <actions:{index|
case <index>:
    return <actions.(index)>;}; separator="\n">
    }
    return true;
}
>>

```

```

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<if(ruleCtx)>
<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

@RuleVersion(<namedActions.version; null="0">)
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name>(<args; separator=",">) throws RecognitionException {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState())<currentRule.args:{a | ,
  <a.name>}>);
  enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">
  try {
  <if(currentRule.hasLookaheadBlock)>
    int _alt;
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  catch
  (RecognitionException re) {
    _localctx.exception = re;
    _errHandler.reportError(this, re);
    _errHandler.recover(this, re);
  }
  <endif>
  finally {
    <finallyAction>
    exitRule();
  }
  return _localctx;
}
>>

LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private final <endif><currentRule.ctxType>
<currentRule.name>(<args; separator=",">) throws RecognitionException {

```

```

<currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState())<currentRule.args:{a | ,
<a.name>}>);
enterLeftFactoredRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
    int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
catch (RecognitionException re) {
    _localctx.exception = re;
    _errHandler.reportError(this, re);
    _errHandler.recover(this,
re);
}
finally {
    <finallyAction>
    exitRule();
}
return _localctx;
}
>>

```

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.

```

LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

```

```

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private final <endif><currentRule.ctxType>
<currentRule.name>(<args; separator=",">) throws RecognitionException {
    <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState())<currentRule.args:{a | ,
<a.name>}>);
    enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
    <namedActions.init>
    <locals; separator="\n">
    try {
    <if(currentRule.hasLookaheadBlock)>
        int _alt;
    <endif>
    <code>
    <postamble; separator="\n">
    <namedActions.after>
    }

```



```

catch (RecognitionException re) {
    _localctx.exception = re;
    _errHandler.reportError(this,
re);
    _errHandler.recover(this, re);
}
finally {
    <finallyAction>
    exitRule();
}
return _localctx;
}
>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=
<<

```

```

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

```

```

@RuleVersion(<namedActions.version; null="0">)
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name>(<args; separator=", ">) throws RecognitionException {
    return <currentRule.name>(0<currentRule.args:{a | , <a.name>}>);
}

```

```

private <currentRule.ctxType> <currentRule.name>(int _p<args:{a | , <a>}>) throws RecognitionException {
    ParserRuleContext _parentctx = _ctx;
    int _parentState = getState();
    <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>);
    <currentRule.ctxType> _prevctx = _localctx;
    int _startState = <currentRule.startState>;
    enterRecursionRule(_localctx,
    <currentRule.startState>, RULE_<currentRule.name>, _p);
    <namedActions.init>
    <locals; separator="\n">
    try {
    <if(currentRule.hasLookaheadBlock)>
        int _alt;
    <endif>
    <code>
    <postamble; separator="\n">
    <namedActions.after>
    }
    catch (RecognitionException re) {
        _localctx.exception = re;

```

```

_errHandler.reportError(this, re);
_errHandler.recover(this, re);
}
finally {
<finallyAction>
unrollRecursionContexts(_parentctx);
}
return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops;
separator="\n">
}
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">

```

default:

break;

}

>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<

setState(<choice.stateNumber>);

_errHandler.sync(this);

<preamble; separator="\n">

if (<expr>) {

<alts; separator="\n">

}

<!else if (!(<followExpr>) <error>!>

>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<

setState(<choice.stateNumber>);

_errHandler.sync(this);

<preamble; separator="\n">

while

(<loopExpr>) {

<alts; separator="\n">

setState(<choice.loopBackStateNumber>);

_errHandler.sync(this);

<iteration>

}

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<

setState(<choice.blockStartStateNumber>); <! alt block decision !>

_errHandler.sync(this);

<preamble; separator="\n">

do {

<alts; separator="\n">

setState(<choice.stateNumber>); <! loopback/exit decision !>

_errHandler.sync(this);

<iteration>

} while (<loopExpr>);

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<

setState(<choice.stateNumber>);

_errHandler.sync(this);

<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>

<preamble; separator="\n">

switch (getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {

```

<alts:{alt |
case <i>:
  <alt>
  break;}; separator="\n">
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  break;}; separator="\n">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
}
setState(<choice.loopBackStateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
  switch (_alt) {
    <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  break;}; separator="\n">
  default:
    <error>
  }
  setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
}

```

```

_errHandler.sync(this);
_alt
= getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>} ; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange(<offsetShift(s.varName, bits.shift)>)> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1L \<\< <offsetShift(ttype, bits.shift)>)} ; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount,
offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<ttype>} ; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> =

```

```

}><endif><r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>
);
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>match(<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)>
= }>_input.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>_errHandler.recoverInline(this);
} else {
if (_input.LA(1) == Token.EOF) {
matchedEOF = true;
}
_errHandler.reportMatch(this);
consume();
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>);
if (!(<chunks>)) throw createFailedPredicateException(<p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<

```

```

catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip();"
LexerMoreCommand() ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg,
    grammar)    ::= "_type = <arg>;"
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>;"
LexerModeCommand(arg, grammar)    ::= "_mode = <arg>;"
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>;"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0)"
TokenPropertyRef_pos(t)
    ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.start):null)"
RulePropertyRef_stop(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_text(r) ::=
    "(<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

```

```

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
ThisRulePropertyRef_text(r) ::= "_input.getText(_localctx.start,
    _input.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
    "(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>;"
TokenListDecl(t) ::= "List<Token> <t.name> = new ArrayList<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List<<rdecl.ctxName>> <rdecl.name> = new ArrayList<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t) ::=
    "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t) ::=
    "public List<? extends TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t) ::= <<
    public TerminalNode <t.name>(int i) {
        return getToken(<parser.name>.<t.name>, i);
    }
>>

ContextRuleGetterDecl(r) ::= <<
    public <r.ctxName> <r.name>() {
        return getRuleContext(<r.ctxName>.class,0);
    }
>>

ContextRuleListGetterDecl(r) ::= <<
    public List<? extends <r.ctxName>> <r.name>() {
        return getRuleContexts(<r.ctxName>.class);
    }
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
    public <r.ctxName> <r.name>(int i) {
        return getRuleContext(<r.ctxName>.class,i);
    }
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,

```



```

* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName) ::= "<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers)
::=
<<
public static class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif> {
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">
<if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) { super(parent, invokingState);
}<endif>
public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>>}) {
super(parent, invokingState);
<struct.ctorAttrs:{a | this.<a.name> = <a.name>;}; separator="\n">
}
@Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)><! don't need copy unless we have subclasses !>
public <struct.name>() { }
public void copyFrom(<struct.name> ctx) {
super.copyFrom(ctx);
<struct.attrs:{a | this.<a.name> = ctx.<a.name>;}; separator="\n">
}
<endif>
<dispatchMethods;
separator="\n">
<extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
public static class <struct.name> extends <currentRule.name; format="cap">Context {
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">
public <struct.name>(<currentRule.name; format="cap">Context ctx) { copyFrom(ctx); }
<dispatchMethods; separator="\n">
}
>>

```

```

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
    if ( listener instanceof <parser.grammarName>Listener )
        ((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName>
        format="cap">(this);
    }
>>

```

```

VisitorDispatchMethod(method) ::= <<
@Override
public <Result> Result accept(ParseTreeVisitor<? extends Result> visitor) {
    if ( visitor instanceof <parser.grammarName>Visitor<? extends Result> ) return ((<parser.grammarName>Visitor<? extends Result>)visitor).visit<struct.derivedFromName>
    format="cap">(this);
    else return visitor.visitChildren(this);
    }
>>

```

```

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"

```

```

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><x.name>"

```

```

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

```

```

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

```

```

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken() ::= "_ctx.stop = _input.LT(-1);"

```

```

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
    _localctx = new <ctxName>(_parentctx, _parentState);
    <if(label)>
    <if(isListLabel)>
        _localctx.<label>.add(_prevctx);
    <else>
        _localctx.<label>
        = _prevctx;
    <endif>
    <endif>
    pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

```

```

recRuleLabeledAltStartAction(ruleName, ctxName, currentAltLabel, label, isListLabel) ::= <<
    _localctx = new <currentAltLabel; format="cap">Context(new <ctxName>(_parentctx, _parentState));
    <if(label)>
    <if(isListLabel)>
        ((<currentAltLabel; format="cap">Context)_localctx).<label>.add(_prevctx);
    <else>
        ((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
    <endif>
    <endif>
    pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

```

```

recRuleReplaceContext(ctxName) ::= <<
    _localctx = new <ctxName>Context(_localctx);
    _ctx = _localctx;
    _prevctx = _localctx;
>>

```

```

recRuleSetPrevCtx() ::= <<
    if ( _parseListeners!=null ) triggerExitRuleEvent();
    _prevctx = _localctx;
>>

```

```

LexerFile(file, lexer, namedActions) ::= <<
    <fileHeader(file.grammarFileName, file.ANTLRVersion)>
    <if(file.genPackage)>
    package
        <file.genPackage>;
    <endif>
    <namedActions.header>
    import org.antlr.v4.runtime.Lexer;
    import org.antlr.v4.runtime.CharStream;
    import org.antlr.v4.runtime.Token;
    import org.antlr.v4.runtime.TokenStream;
    import org.antlr.v4.runtime.*;
    import org.antlr.v4.runtime.atn.*;
    import org.antlr.v4.runtime.dfa.DFA;
    import org.antlr.v4.runtime.misc.*;

    <lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
    public <if(lexer.abstractRecognizer)>abstract <endif>class <lexer.name> extends <superClass; null="Lexer"> {
        <if(lexer.tokens)>
        public static final int

```

```

<lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(lexer.channels)>
public static final int
<lexer.channels:{c | <c>=<lexer.channels.(c)>}; separator=", ", wrap, anchor>;
<endif>
<if(rest(lexer.modes))>
public static final int
<rest(lexer.modes){m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>
public static String[] channelNames = {
    "DEFAULT_TOKEN_CHANNEL",
    "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c| "<c>"}; separator=", ", wrap, anchor><endif>
};

public static String[] modeNames = {
    <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
};

private static String[] makeRuleNames() {
    return new String[] {
        <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
    };
}
public static final String[] ruleNames = makeRuleNames();

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

<namedActions.members>

public <lexer.name>(CharStream input) {
    super(input);
    _interp = new LexerATNSimulator(this,_ATN);
    validateInputStream(_ATN, input);
}

@Override
public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

@Override
public String[] getRuleNames() { return ruleNames; }

@Override
public String getSerializedATN() { return _serializedATN; }

@Override
@NotNull
public String[] getChannelNames() { return channelNames; }

```

```

@Override
@NotNull
public String[] getModeNames() { return modeNames;
}

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

SerializedATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
private static final int _serializedATNSegments = <length(model.segments)>;
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
"<segment; wrap={"+<\n><\t>"}>";}; separator="\n">
public static final String _serializedATN = Utils.join(
new String[] {
<model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
},
""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
"<model.serialized; wrap={"+<\n><\t>"}>";
<endif>
public static final ATN _ATN =
new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
<! org.antlr.v4.tool.DOTGenerator dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2],
ruleNames, false));!>
}
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".java"

Found in path(s):

```

* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg

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/*

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* can be found in the LICENSE.txt file in the project root.

*/

/** Find left-recursive rules */

tree grammar LeftRecursiveRuleWalker;

options {

tokenVocab=ANTLRParser;

ASTLabelType=GrammarAST;

}

@header {

package org.antlr.v4.parse;

import org.antlr.v4.misc.*;

import org.antlr.v4.tool.*;

import org.antlr.v4.tool.ast.*;

}

@members {

private String ruleName;

private int currentOuterAltNumber; // which outer alt of rule?

public int numAlts; // how many alts for this rule total?

public void setAltAssoc(AltAST altTree, int alt) {}

public void binaryAlt(AltAST altTree, int alt) {}

public void prefixAlt(AltAST altTree, int alt) {}

public void suffixAlt(AltAST altTree, int alt) {}

public void otherAlt(AltAST altTree, int alt) {}

public void setReturnValues(GrammarAST t) {}

}

@rulecatch

{ }

// TODO: can get parser errors for not matching pattern; make them go away

public

rec_rule returns [boolean isLeftRec]

@init

{

currentOuterAltNumber = 1;

}

```

: ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
  ruleModifier?
// (ARG_ACTION)? shouldn't allow args, right?
  ^(RETURNS a=ARG_ACTION {setReturnValues($a);}))?
// (^(THROWS .+) )? don't allow
  (^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
  (^(OPTIONS .*)
   | ^(AT ID ACTION) // TODO: copy
  )*
ruleBlock { $isLeftRec = $ruleBlock.isLeftRec;}
exceptionGroup
)
;

exceptionGroup
: exceptionHandler* finallyClause?
;

exceptionHandler
: ^(CATCH ARG_ACTION ACTION)
;

finallyClause
: ^(FINALLY ACTION)
;

ruleModifier
: PUBLIC
| PRIVATE
| PROTECTED
;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
: ^( BLOCK
  (
    o=outerAlternative
    {if ($o.isLeftRec) $isLeftRec = true;}
    {currentOuterAltNumber++;}
  )+
)
;

/**
An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
: (binary)=>      binary
      {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}

```

```

| (prefix)=>      prefix
                  {prefixAlt((AltAST)$start, currentOuterAltNumber);}
| (suffix)=>      suffix
                  {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| nonLeftRecur    {otherAlt((AltAST)$start, currentOuterAltNumber);}
;

binary
: ^( ALT elementOptions? recurse element* recurse epsilonElement* )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

prefix
: ^( ALT elementOptions?
  element+
  recurse epsilonElement*
)
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

suffix
: ^( ALT elementOptions? recurse element+ )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

nonLeftRecur
: ^(ALT elementOptions? element+)
;

recurse
: ^(ASSIGN ID recurseNoLabel)
| ^(PLUS_ASSIGN ID recurseNoLabel)
| recurseNoLabel
;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
: ^(ASSIGN ID s=token {$t = $s.t;})
| ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
| b=STRING_LITERAL      {$t = $b;}
| ^(b=STRING_LITERAL elementOptions) {$t = $b;}
| ^(c=TOKEN_REF elementOptions) {$t = $c;}
| c=TOKEN_REF           {$t = $c;}
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)

```


;

elementOption

: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;

element

: atom
| ^(NOT element)
| ^(RANGE atom atom)
| ^(ASSIGN ID element)
| ^(PLUS_ASSIGN ID element)
| ^(SET setElement+)
| RULE_REF
| ebnf
| epsilonElement
;

epsilonElement

: ACTION
| SEMPRED
| EPSILON
| ^(ACTION
elementOptions)
| ^(SEMPRED elementOptions)
;

setElement

: ^(STRING_LITERAL elementOptions)
| ^(TOKEN_REF elementOptions)
| STRING_LITERAL
| TOKEN_REF
;

ebnf: block

| ^(OPTIONAL block)
| ^(CLOSURE block)
| ^(POSITIVE_CLOSURE block)
;

block

: ^(BLOCK ACTION? alternative+)
;

alternative

```
: ^(ALT elementOptions? element+)
;
```

atom

```
: ^(RULE_REF ARG_ACTION? elementOptions?)
| ^(STRING_LITERAL elementOptions)
| STRING_LITERAL
| ^(TOKEN_REF elementOptions)
| TOKEN_REF
| ^(WILDCARD elementOptions)
| WILDCARD
| ^(DOT ID element)
;
```

Found in path(s):

* /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g

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*/

/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.

* Parses trees created by ANTLRParser.g.

*

* Rather than have multiple tree grammars, one for each visit, I'm

* creating this generic visitor that knows about context. All of the

* boilerplate pattern recognition is done here. Then, subclasses can

* override the methods they care about. This prevents a lot of the same

* context tracking stuff like "set current alternative for current

* rule node" that is repeated in lots of tree filters.

*/

tree grammar GrammarTreeVisitor;

options {

language = Java;

tokenVocab = ANTLRParser;

ASTLabelType = GrammarAST;

}

// Include the copyright in this source and also the generated source

@header

{

/*

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```

* can be found in the LICENSE.txt file in the project root.
*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST
t, String ruleName) {
    CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
    setTreeNodeStream(nodes);
    try {
        Method m = getClass().getMethod(ruleName);
        m.invoke(this);
    }
    catch (Throwable e) {
        ErrorManager errMgr = getErrorManager();
        if ( e instanceof InvocationTargetException ) {
            e = e.getCause();
        }

        if ( errMgr==null ) {
            System.err.println("can't find rule "+ruleName+
                " or tree structure error: "+t.toStringTree()
            );
            e.printStackTrace(System.err);
        }
        else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
    }
}

```

```

}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST
    ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    ActionAST arg, ActionAST returns, GrammarAST thrws,
    GrammarAST options, ActionAST locals,
    List<GrammarAST> actions,
    GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST
    action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }

```

```

protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected
    void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST tree) { }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST
tree) { }
protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST tree) { }

protected void enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }

```

```

protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST
tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST tree) { }
protected void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST
tree) { }
protected void exitLexerElements(GrammarAST tree) { }

```

```
protected void enterLexerElement(GrammarAST tree) { }  
protected void exitLexerElement(GrammarAST tree) { }
```

```
protected void enterLabeledLexerElement(GrammarAST tree) { }  
protected void exitLabeledLexerElement(GrammarAST tree) { }
```

```
protected void enterLexerBlock(GrammarAST tree) { }  
protected void exitLexerBlock(GrammarAST tree) { }
```

```
protected void enterLexerAtom(GrammarAST tree) { }  
protected void exitLexerAtom(GrammarAST tree) { }
```

```
protected void enterActionElement(GrammarAST tree) { }  
protected void exitActionElement(GrammarAST tree) { }
```

```
protected void enterAlternative(AltAST tree) { }  
protected void exitAlternative(AltAST tree) { }
```

```
protected void enterLexerCommand(GrammarAST tree) { }  
protected void exitLexerCommand(GrammarAST tree) { }
```

```
protected void enterLexerCommandExpr(GrammarAST tree) { }  
protected void exitLexerCommandExpr(GrammarAST tree) { }
```

```
protected void enterElement(GrammarAST tree) { }  
protected void exitElement(GrammarAST  
tree) { }
```

```
protected void enterAstOperand(GrammarAST tree) { }  
protected void exitAstOperand(GrammarAST tree) { }
```

```
protected void enterLabeledElement(GrammarAST tree) { }  
protected void exitLabeledElement(GrammarAST tree) { }
```

```
protected void enterSubrule(GrammarAST tree) { }  
protected void exitSubrule(GrammarAST tree) { }
```

```
protected void enterLexerSubrule(GrammarAST tree) { }  
protected void exitLexerSubrule(GrammarAST tree) { }
```

```
protected void enterBlockSuffix(GrammarAST tree) { }  
protected void exitBlockSuffix(GrammarAST tree) { }
```

```
protected void enterEbnfSuffix(GrammarAST tree) { }  
protected void exitEbnfSuffix(GrammarAST tree) { }
```

```
protected void enterAtom(GrammarAST tree) { }  
protected void exitAtom(GrammarAST tree) { }
```

```

protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }

protected void enterBlock(GrammarAST tree)
{ }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

@Override
public void traceIn(String ruleName, int ruleIndex) {
    System.err.println("enter "+ruleName+": "+input.LT(1));
}

@Override
public void traceOut(String ruleName, int ruleIndex) {
    System.err.println("exit "+ruleName+": "+input.LT(1));
}

}

grammarSpec
@init {
    enterGrammarSpec($start);
}
@after {
    exitGrammarSpec($start);
}
: ^( GRAMMAR ID {grammarName=$ID.text;}
    {discoverGrammar((GrammarRootAST)$GRAMMAR,
$ID);}
    prequelConstructs

```



```

    {finishPrequels($prequelConstructs.firstOne);}
    rules mode*
    {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
  )
;

```

prequelConstructs returns [GrammarAST firstOne=null]

```

@init {
  enterPrequelConstructs($start);
}
@after {
  exitPrequelConstructs($start);
}
: {$firstOne=$start;} prequelConstruct+
|
;

```

prequelConstruct

```

@init {
  enterPrequelConstructs($start);
}
@after {
  exitPrequelConstructs($start);
}
: optionsSpec
| delegateGrammars
| tokensSpec
| channelsSpec
| action
;

```

optionsSpec

```

@init {
  enterOptionsSpec($start);
}
@after {
  exitOptionsSpec($start);
}
: ^(OPTIONS option*)
;

```

option

```

@init {
  enterOption($start);
  boolean rule = inContext("RULE ...");
  boolean block = inContext("BLOCK ...");
}
@after {

```

```

exitOption($start);
}
: ^(a=ASSIGN ID v=optionValue)
{
  if ( block ) blockOption($ID, $v.start); // most specific first
  else if ( rule ) ruleOption($ID, $v.start);
  else grammarOption($ID, $v.start);
}
;

optionValue returns [String v]
@init {
  enterOptionValue($start);
  $v = $start.token.getText();
}
@after {
  exitOptionValue($start);
}
: ID
| STRING_LITERAL
| INT
;

delegateGrammars
@init {
  enterDelegateGrammars($start);
}
@after {
  exitDelegateGrammars($start);
}
: ^(IMPORT delegateGrammar+)
;

delegateGrammar
@init {
  enterDelegateGrammar($start);
}
@after {
  exitDelegateGrammar($start);
}
: ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
| id=ID {importGrammar(null, $id);}
;

tokensSpec
@init {
  enterTokensSpec($start);
}

```

```

@after {
    exitTokensSpec($start);
}
: ^(TOKENS_SPEC tokenSpec+)
;

tokenSpec
@init {
    enterTokenSpec($start);
}
@after {
    exitTokenSpec($start);
}
: ID    {defineToken($ID);}
;

channelsSpec
@init {
    enterChannelsSpec($start);
}
@after {
    exitChannelsSpec($start);
}
: ^(CHANNELS channelSpec*)
;

channelSpec
@init {
    enterChannelSpec($start);
}
@after
{
    exitChannelSpec($start);
}
: ID    {defineChannel($ID);}
;

action
@init {
    enterAction($start);
}
@after {
    exitAction($start);
}
: ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
;

rules

```

```

@init {
    enterRules($start);
}
@after {
    exitRules($start);
}
: ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
;

mode
@init {
    enterMode($start);
}
@after {
    exitMode($start);
}
: ^( MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
;

lexerRule
@init {
    enterLexerRule($start);
    List<GrammarAST> mods = new ArrayList<GrammarAST>();
    currentOuterAltNumber=0;
}
@after {
    exitLexerRule($start);
}
: ^( RULE TOKEN_REF
    {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
    (^ (RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
    {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
    lexerRuleBlock
    {
        finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
        currentRuleName=null; currentRuleAST=null;
    }
    )
;

rule
@init {
    enterRule($start);
    List<GrammarAST> mods = new ArrayList<GrammarAST>();
    List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
    currentOuterAltNumber=0;
}
@after {

```

```

exitRule($start);
}
: ^( RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
  (^ (RULEMODIFIERS (m=ruleModifier{mods.add($m.start);}+)) )?
  ARG_ACTION?
  ret=ruleReturns?
  thr=throwsSpec?
  loc=locals?
  ( opts=optionsSpec
  | a=ruleAction {actions.add($a.start);}
  )*
  {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
    $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
    $thr.start, $opts.start,
    $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
    actions, (GrammarAST)input.LT(1));}
  ruleBlock exceptionGroup
  {finishRule((RuleAST)$RULE, $RULE_REF,
    $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
  )
;

exceptionGroup
@init {
  enterExceptionGroup($start);
}
@after {
  exitExceptionGroup($start);
}
: exceptionHandler* finallyClause?
;

exceptionHandler
@init {
  enterExceptionHandler($start);
}
@after {
  exitExceptionHandler($start);
}
: ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
;

finallyClause
@init {
  enterFinallyClause($start);
}
@after {
  exitFinallyClause($start);
}

```

```

}
: ^(FINALLY ACTION) {finallyAction((ActionAST)$ACTION);}
;

locals
@init {
  enterLocals($start);
}
@after {
  exitLocals($start);
}
: ^(LOCALS ARG_ACTION)
;

ruleReturns
@init {
  enterRuleReturns($start);
}
@after {
  exitRuleReturns($start);
}
: ^(RETURNS ARG_ACTION)
;

throwsSpec
@init {
  enterThrowsSpec($start);
}
@after {
  exitThrowsSpec($start);
}
: ^(THROWS ID+)
;

ruleAction
@init {
  enterRuleAction($start);
}
@after {
  exitRuleAction($start);
}
: ^(AT ID ACTION)
;

ruleModifier
@init
{
  enterRuleModifier($start);
}

```

```

}
@after {
    exitRuleModifier($start);
}
: PUBLIC
| PRIVATE
| PROTECTED
| FRAGMENT
;

lexerRuleBlock
@init {
    enterLexerRuleBlock($start);
}
@after {
    exitLexerRuleBlock($start);
}
: ^( BLOCK
    ( {
        currentOuterAltRoot = (GrammarAST)input.LT(1);
        currentOuterAltNumber++;
    }
    lexerOuterAlternative
    )+
    )
;

ruleBlock
@init {
    enterRuleBlock($start);
}
@after {
    exitRuleBlock($start);
}
: ^( BLOCK
    ( {
        currentOuterAltRoot = (GrammarAST)input.LT(1);
        currentOuterAltNumber++;
    }
    outerAlternative
    )+
    )
;

lexerOuterAlternative
@init {
    enterLexerOuterAlternative((AltAST)$start);
    discoverOuterAlt((AltAST)$start);
}

```

```

}
@after {
    finishOuterAlt((AltAST)$start);
    exitLexerOuterAlternative((AltAST)$start);
}
: lexerAlternative
;

```

```

outerAlternative
@init {
    enterOuterAlternative((AltAST)$start);
    discoverOuterAlt((AltAST)$start);
}
@after {
    finishOuterAlt((AltAST)$start);
    exitOuterAlternative((AltAST)$start);
}
: alternative
;

```

```

lexerAlternative
@init
{
    enterLexerAlternative($start);
}
@after {
    exitLexerAlternative($start);
}
: ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
| lexerElements
;

```

```

lexerElements
@init {
    enterLexerElements($start);
}
@after {
    exitLexerElements($start);
}
: ^(ALT lexerElement+)
;

```

```

lexerElement
@init {
    enterLexerElement($start);
}
@after {

```



```

exitLexerElement($start);
}
: labeledLexerElement
| lexerAtom
| lexerSubrule
| ACTION    {actionInAlt((ActionAST)$ACTION);}
| SEMPRED   {sempredInAlt((PredAST)$SEMPRED);}
| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| EPSILON
;

```

```

labeledLexerElement
@init {
    enterLabeledLexerElement($start);
}
@after {
    exitLabeledLexerElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
;

```

```

lexerBlock
@init {
    enterLexerBlock($start);
}
@after {
    exitLexerBlock($start);
}
: ^(BLOCK optionsSpec? lexerAlternative+)
;

```

```

lexerAtom
@init {
    enterLexerAtom($start);
}
@after {
    exitLexerAtom($start);
}
: terminal
| ^(NOT blockSet)
| blockSet
| ^(WILDCARD elementOptions)
| WILDCARD
| LEXER_CHAR_SET
| range
| ruleref
;

```

```

actionElement
@init {
    enterActionElement($start);
}
@after {
    exitActionElement($start);
}
: ACTION
| ^(ACTION elementOptions)
| SEMPRED
| ^(SEMPRED elementOptions)
;

```

```

alternative
@init {
    enterAlternative((AltAST)$start);
    discoverAlt((AltAST)$start);
}
@after {
    finishAlt((AltAST)$start);
    exitAlternative((AltAST)$start);
}
: ^(ALT elementOptions? element+)
| ^(ALT elementOptions? EPSILON)
;

```

```

lexerCommand
@init {
    enterLexerCommand($start);
}
@after {
    exitLexerCommand($start);
}
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
    {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
| ID
    {lexerCommand(currentOuterAltNumber,
$ID);}
;

```

```

lexerCommandExpr
@init {
    enterLexerCommandExpr($start);
}
@after {
    exitLexerCommandExpr($start);
}

```

```

: ID
| INT
;

element
@init {
    enterElement($start);
}
@after {
    exitElement($start);
}
: labeledElement
| atom
| subrule
| ACTION    {actionInAlt((ActionAST)$ACTION);}
| SEMPRED   {sempredInAlt((PredAST)$SEMPRED);}
| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| range
| ^(NOT blockSet)
| ^(NOT block)
;

astOperand
@init {
    enterAstOperand($start);
}
@after {
    exitAstOperand($start);
}
: atom
| ^(NOT blockSet)
| ^(NOT block)
;

labeledElement
@init {
    enterLabeledElement($start);
}
@after {
    exitLabeledElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
;

subrule
@init {
    enterSubrule($start);
}

```

```

}
@after {
    exitSubrule($start);
}
: ^(blockSuffix block)
| block
;

lexerSubrule
@init {
    enterLexerSubrule($start);
}
@after
{
    exitLexerSubrule($start);
}
: ^(blockSuffix lexerBlock)
| lexerBlock
;

blockSuffix
@init {
    enterBlockSuffix($start);
}
@after {
    exitBlockSuffix($start);
}
: ebnfSuffix
;

ebnfSuffix
@init {
    enterEbnfSuffix($start);
}
@after {
    exitEbnfSuffix($start);
}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

atom
@init {
    enterAtom($start);
}
@after {
    exitAtom($start);
}

```

```

}
: ^(DOT ID terminal)
| ^(DOT ID ruleref)
| ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
| WILDCARD {wildcardRef($WILDCARD);}
| terminal
| blockSet
| ruleref
;

blockSet
@init {
    enterBlockSet($start);
}
@after {
    exitBlockSet($start);
}
: ^(SET setElement+)
;

setElement
@init {
    enterSetElement($start);
}
@after {
    exitSetElement($start);
}
: ^(STRING_LITERAL elementOptions) {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| TOKEN_REF
    {tokenRef((TerminalAST)$TOKEN_REF);}
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{
    stringRef((TerminalAST)$a);
    stringRef((TerminalAST)$b);
}
| LEXER_CHAR_SET
;

block
@init {
    enterBlock($start);
}
@after {
    exitBlock($start);
}
: ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)

```

```

;

ruleref
@init {
    enterRuleref($start);
}
@after {
    exitRuleref($start);
}
: ^(RULE_REF arg=ARG_ACTION? elementOptions?)
{
    ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
    if ( $arg!=null ) actionInAlt((ActionAST)$arg);
}
;

range
@init {
    enterRange($start);
}
@after {
    exitRange($start);
}
: ^(RANGE STRING_LITERAL STRING_LITERAL)
;

terminal
@init {
    enterTerminal($start);
}
@after {
    exitTerminal($start);
}
: ^(STRING_LITERAL elementOptions)
    {stringRef((TerminalAST)$STRING_LITERAL);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF
elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
;

elementOptions
@init {
    enterElementOptions($start);
}
@after {
    exitElementOptions($start);
}

```

```

: ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
;

elementOption[GrammarASTWithOptions t]
@init {
    enterElementOption($start);
}
@after {
    exitElementOption($start);
}
: ID      {elementOption(t, $ID, null);}
| ^(ASSIGN id=ID v=ID) {elementOption(t, $id, $v);}
| ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=ACTION) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=INT) {elementOption(t, $ID, $v);}
;

```

Found in path(s):

* /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.g

No license file was found, but licenses were detected in source scan.

```

/*
 * Copyright (c) 2012 The ANTLR Project. All rights reserved.
 * Use of this file is governed by the BSD-3-Clause license that
 * can be found in the LICENSE.txt file in the project root.
 */

```

```

tree grammar SourceGenTriggers;
options {
    language      = Java;
    tokenVocab    = ANTLRParser;
    ASTLabelType  = GrammarAST;
}

@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import java.util.Map;
import java.util.HashMap;
}

@members {
    public OutputModelController controller;

```

```

public boolean hasLookaheadBlock;
public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
    this(input);
    this.controller = controller;
}
}

dummy : block[null, null] ;

block[GrammarAST label, GrammarAST ebnfRoot] returns
[List<? extends SrcOp> omos]
: ^( blk=BLOCK (^ (OPTIONS .+))?
{List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
( alternative {alts.add($alternative.altCodeBlock);} )+
)
{
if ( alts.size()==1 && ebnfRoot==null) return alts;
if ( ebnfRoot==null ) {
    $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
}
else {
    Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
    hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
    $omos = DefaultOutputModelFactory.list(choice);
}
}
;

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
    boolean outerMost = inContext("RULE BLOCK");
}
@after {
    controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
: a=alt[outerMost] { $altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock,
List<SrcOp> ops]
@init {
    // set alt if outer ALT only (the only ones with alt field set to Alternative object)
    AltAST altAST = (AltAST)retval.start;
    if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
: {
    List<SrcOp> elems = new ArrayList<SrcOp>();
    // TODO: shouldn't we pass $start to controller.alternative()?

```



```

$altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
$altCodeBlock.ops = $ops = elems;
controller.setCurrentBlock($altCodeBlock);
}
^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

| ^(ALT elementOptions? EPSILON)
    {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
;

element returns [List<? extends SrcOp> omos]
: labeledElement    {$omos = $labeledElement.omos;}
| atom[null,false]  {$omos = $atom.omos;}
| subrule           {$omos = $subrule.omos;}
| ACTION           {$omos = controller.action((ActionAST)$ACTION);}
|
| SEMPRED           {$omos = controller.sempred((ActionAST)$SEMPRED);}
| ^(ACTION elementOptions) {$omos = controller.action((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {$omos = controller.sempred((ActionAST)$SEMPRED);}
;

labeledElement returns [List<? extends SrcOp> omos]
: ^(ASSIGN ID atom[$ID,false] ) {$omos = $atom.omos;}
| ^(PLUS_ASSIGN ID atom[$ID,false]) {$omos = $atom.omos;}
| ^(ASSIGN ID block[$ID,null] ) {$omos = $block.omos;}
| ^(PLUS_ASSIGN ID block[$ID,null]) {$omos = $block.omos;}
;

subrule returns [List<? extends SrcOp> omos]
: ^(OPTIONAL b=block[null,$OPTIONAL])
{
    $omos = $block.omos;
}
| ( ^(op=CLOSURE b=block[null,null])
| ^(op=POSITIVE_CLOSURE b=block[null,null])
)
{
    List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
    SrcOp blk = $b.omos.get(0);
    CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
    alt.addOp(blk);
    alts.add(alt);
    SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
    hasLookaheadBlock
|= loop instanceof PlusBlock || loop instanceof StarBlock;
    $omos = DefaultOutputModelFactory.list(loop);
}
| block[null, null]    {$omos = $block.omos;}

```

```

;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
;

/*
setElement
: STRING_LITERAL
| TOKEN_REF
| ^(RANGE STRING_LITERAL STRING_LITERAL)
;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(NOT a=atom[$label, true]) {$omos = $a.omos;}
| range[label]    {$omos = $range.omos;}
| ^(DOT ID terminal[$label])
| ^(DOT ID ruleref[$label])
| ^(WILDCARD .)   {$omos = controller.wildcard($WILDCARD, $label);}
| WILDCARD        {$omos = controller.wildcard($WILDCARD, $label);}
| terminal[label]  {$omos = $terminal.omos;}
| ruleref[label]   {$omos
= $ruleref.omos;}
| blockSet[$label, invert] {$omos = $blockSet.omos;}
;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
: ^(RULE_REF ARG_ACTION? elementOptions?) {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
;

range[GrammarAST label] returns [List<SrcOp> omos]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
;

terminal[GrammarAST label] returns [List<SrcOp> omos]
: ^(STRING_LITERAL .) {$omos = controller.stringRef($STRING_LITERAL, $label);}
| STRING_LITERAL    {$omos = controller.stringRef($STRING_LITERAL, $label);}
| ^(TOKEN_REF ARG_ACTION .) {$omos = controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
| ^(TOKEN_REF .)    {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
| TOKEN_REF         {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption+)

```

;

elementOption

: ID

| ^(ASSIGN ID ID)

| ^(ASSIGN ID STRING_LITERAL)

| ^(ASSIGN ID ACTION)

| ^(ASSIGN ID INT)

;

Found in path(s):

* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/SourceGenTriggers.g

No license file was found, but licenses were detected in source scan.

/*

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* can be found in the LICENSE.txt file in the project root.

*/

Found in path(s):

* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/MatchSet.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/ParserFactory.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_channel.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/DispatchMethod.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/OutputModelObject.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/Parser.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/gui/Trees.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/ToolANTLRLexer.java

*

/antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/PlusBlock.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/DefaultToolListener.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/LabelType.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/InvokeRule.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/automata/ParserATNFactory.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/OptionalBlock.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/gui/BasicFontMetrics.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ast/RangeAST.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ast/TerminalAST.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/semantics/SymbolChecks.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/gui/SystemFontMetrics.java

* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_stop.java

*

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/antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/ToolANTLRParser.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/decl/CodeBlock.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/LexerGrammar.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ast/OptionalBlockAST.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/decl/TokenListDecl.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/ElementFrequenciesVisitor.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/CodeGenerator.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ast/StarBlockAST.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/RuleActionFunction.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/ActionText.java
*
/antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/misc/FrequencySet.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ast/RuleElementAST.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/analysis/AnalysisPipeline.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/OutputFile.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/analysis/LeftRecursionDetector.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/LL1AltBlock.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/SemPred.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/UnicodeEscapes.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/Recognizer.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ast/GrammarRootAST.java
*
/antlr4-4-9-0-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/automata/LexerATNFactory.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ast/GrammarASTVisitor.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/AddToLabelList.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/VisitorFile.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/gui/GraphicsSupport.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_ctx.java
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* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/Alternative.java
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* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/QRetValRef.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ANTLRToolListener.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_line.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/unicode/UnicodeDataTemplateController.java

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- * /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/ANTLRParser.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ast/RuleAST.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/CodeGeneratorExtension.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/GrammarToken.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
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- * /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java
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- * /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/AttributeResolver.java
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- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/decl/StructDecl.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/gui/TestRig.java
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- * /antlr4-4-9-0-sources-jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java
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- * /antlr4-4-9-0-sources-jar/org/antlr/v4/semantics/UseDefAnalyzer.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/LabeledOp.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/decl/ContextRuleGetterDecl.java
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- /antlr4-4-9-0-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/misc/Graph.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/LexerFile.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/ExceptionClause.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_parser.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/BlankOutputModelFactory.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ast/GrammarAST.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/SrcOp.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/misc/Utils.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/decl/TokenDecl.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/Choice.java
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- /antlr4-4-9-0-sources-jar/org/antlr/v4/automata/TailEpsilonRemover.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/target/JavaTarget.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_type.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ast/NotAST.java
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- * /antlr4-4-9-0-sources-jar/org/antlr/v4/gui/TreeView.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/LabelElementPair.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/ArgAction.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/MatchNotSet.java
- * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_parser.java

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 /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/gui/TreeLayoutAdaptor.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/OutputModelFactory.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/OutputModelController.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/ParserFile.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/Grammar.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/TestSetInline.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java
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 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
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 /antlr4-4-9-0-sources-jar/org/antlr/v4/gui/PostScriptDocument.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/ModelElement.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/BaseListenerFile.java
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 * /antlr4-4-9-0-sources-jar/org/antlr/v4/gui/TreePostScriptGenerator.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/ATNBuilder.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ast/PlusBlockAST.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/BuildDependencyGenerator.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/semantics/BasicSemanticChecks.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/Wildcard.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/AttributeDict.java
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 /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/Tool.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/Target.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/BaseVisitorFile.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/RuleElement.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/Lexer.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/misc/EscapeSequenceParsing.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/ActionSplitterListener.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/Action.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/decl/ElementListDecl.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ErrorType.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/OutputModelWalker.java
 *
 /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/decl/Decl.java
 * /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/LL1Choice.java

```

* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_ctx.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ast/QuantifierAST.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/ListenerFile.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_start.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ast/AltAST.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/GrammarTransformPipeline.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/ANTLRLexer.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/semantics/BlankActionSplitterListener.java
*
/antlr4-4-9-0-sources-jar/org/antlr/v4/tool/ANTLRMessage.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/CaptureNextToken.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/LL1OptionalBlockSingleAlt.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/GrammarASTAdaptor.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/automata/ATNOptimizer.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/Sync.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/semantics/AttributeChecks.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef.java
No license file was found, but licenses were detected in source scan.

```

```

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```

Found in path(s):

```

* /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/ANTLRParser.g
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```

```

/*
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*/

```

```
lexer grammar ActionSplitter;
```

```
options { filter=true; }
```

```

@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

```

```

@members {
ActionSplitterListener delegate;

```



```

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
    this(input, new RecognizerSharedState());
    this.delegate = delegate;
}

/** force filtering (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
    List<Token> chunks = new ArrayList<Token>();
    Token t = nextToken();
    while ( t.getType()!=Token.EOF ) {
        chunks.add(t);
        t = nextToken();
    }
    return chunks;
}

private boolean isIDStartChar(int c) {
    return c == '_' || Character.isLetter(c);
}

//
ignore comments right away

COMMENT
: '/' ( options {greedy=false;} : . )* '/' {delegate.text($text);}
;

LINE_COMMENT
: '/' ~("\n"|"r")* 'r'? '\n' {delegate.text($text);}
;

SET_NONLOCAL_ATTR
: '$' x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
    delegate.setNonLocalAttr($text, $x, $y, $expr);
}
;

NONLOCAL_ATTR
: '$' x=ID '::' y=ID {delegate.nonLocalAttr($text, $x, $y);}
;

QUALIFIED_ATTR
: '$' x=ID ':' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
;

SET_ATTR

```

```

: '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
    delegate.setAttr($text, $x, $expr);
}
;

ATTR
: '$' x=ID {delegate.attr($text, $x);}
;

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
: ( c=~('\| '$') {buf.append((char)$c);}
  | '\$' {buf.append('$');}
  | '\ ' c=~('$') {buf.append('\ ').append((char)$c);}
  | {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$');}
)+
;

fragment
ID
: ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
: ~'=' (~';')*
;

fragment
WS : (' '\t' '\n' '\r')+
;

Found in path(s):
* /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/ActionSplitter.g
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/*
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*/

tree grammar BlockSetTransformer;
options {

```

```

language    = Java;
tokenVocab  = ANTLRParser;
ASTLabelType = GrammarAST;
output      = AST;
filter      = true;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import java.util.HashSet;
import java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
    this(input, new RecognizerSharedState());
    this.g = g;
}
}

topdown
: ^(RULE (id=TOKEN_REF|id=RULE_REF)
{currentRuleName=$id.text;} .+)
| setAlt
| ebnfBlockSet
| blockSet
;

setAlt
: {inContext("RULE BLOCK")}?
ALT {currentAlt = $start;}
;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID))))))
ebnfBlockSet
@after {
GrammarTransformPipeline.setGrammarPtr(g, $tree);
}

```

```

: ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
;

ebnfSuffix
@after { $tree = (GrammarAST)adaptor.dupNode($start);}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

blockSet
@init {
boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: {inContext("RULE")}? // top-level: rule block and > 1 alt
  ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) ( ^(ALT
elementOptions? setElement[inLexer]) )+)
  -> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
| {!inContext("RULE")}? // if not rule block and > 1 alt
  ^(BLOCK
  ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+)
  -> ^(SET[$BLOCK.token, "SET"] setElement+)
;

setElement[boolean inLexer]
@after {
GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
| a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
| {!inLexer}?=> ^(TOKEN_REF elementOptions)
| {!inLexer}?=> TOKEN_REF
| {inLexer}?=> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 &&
CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
)
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

elementOption

```

```

: ID
| ^ (ASSIGN id=ID v=ID)
| ^ (ASSIGN ID v=STRING_LITERAL)
| ^ (ASSIGN ID v=ACTION)
| ^ (ASSIGN ID v=INT)
;

```

Found in path(s):

* /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/BlockSetTransformer.g

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*/

/*

This file contains the actual layout of the messages emitted by ANTLR.

This file contains the default format ANTLR uses.

*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<id> <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):

* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg

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/*

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*/

/*

This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the default format ANTLR uses.

*/

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

```
report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"
```

```
wantsSingleLineMessage() ::= "true"
```

Found in path(s):

* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg

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```
/*
```

```
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```

```
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```

```
* can be found in the LICENSE.txt file in the project root.
```

```
*/
```

```
/** How to generate rules derived from left-recursive rules.
```

```
* These rely on recRuleAltPredicate(),
```

```
* recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
```

```
* templates in main language.stg
```

```
*/
```

```
group LeftRecursiveRules;
```

```
recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,  
        userRetvals, leftRecursiveRuleRefLabels) ::=
```

```
<<
```

```
<ruleName><if(userRetvals)> returns [<userRetvals>]<endif>
```

```
  : ( {<primaryAlts:{alt | <alt.altText> }; separator="\n    | ">
```

```
    )
```

```
    (
```

```
      <opAlts; separator="\n    | ">
```

```
    )*
```

```
  ;
```

```
>>
```

```
recRuleAlt(alt, precOption, opPrec, pred) ::= <<
```

```
{<pred>}?<<precOption>=<opPrec>\> <alt.altText>
```

```
>>
```

Found in path(s):

* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg

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```
/*
```

```
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```

```
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```

```
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```

```
*/
```

```

// File    : A3Lexer.g
// Author   : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version  : First implemented as part of ANTLR 3.2 this is the self
//            hosting ANTLR 3 Lexer.
//
// Description
// -----
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods
//    in a superclass (at least this is recommended
//    for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
//    vs: "You cannot specify two options{ } sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//
/** Read in an ANTLR grammar and build an AST. Try not to do
 * any actions, just build the tree.
 *
 * The phases are:
 *
 * A3Lexer.g (this file)
 *     A3Parser.g
 *     A3Verify.g (derived from A3Walker.g)
 * assign.types.g
 * define.g
 * buildnfa.g
 * antlr.print.g (optional)
 * codegen.g
 *
 * Terence Parr
 * University of San Francisco
 * 2005
 * Jim Idle (this v3 grammar)

```

```

* Temporal Wave LLC
* 2009
*/
lexer grammar ANTLRLexer;

// =====
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// =====

// -----
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
//
// grammar.
//
options {

// Target language is Java, which is the default but being specific
// here as this grammar is also meant as a good example grammar for
// for users.
//
language    = Java;

// The super class that this lexer should expect to inherit from, and
// which contains any and all support routines for the lexer. This is
// commented out in this baseline (definitive or normative grammar)
// - see the ANTLR tool implementation for hints on how to use the super
// class
//
//superclass = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright in this source and also the generated source
//
@lexer::header {
/*
* Copyright (c) 2012 The ANTLR Project. All rights reserved.
* Use of this file is governed by the BSD-3-Clause license that
* can be found in the LICENSE.txt file in the project root.
*/
}

```



```

package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.runtime.misc.Interval;
}

@members
{
    public static final int COMMENTS_CHANNEL = 2;

    public CommonTokenStream tokens; // track stream we push to; need for context info
    public boolean isLexerRule = false;

    public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }

    /** scan backwards from current point in this.tokens list
     *  looking for the start of the rule or subrule.
     *  Return token or null if for some reason we can't find the start.
     */
    public Token getRuleOrSubruleStartToken() {
        if ( tokens==null ) return null;
        int i = tokens.index();
        int n = tokens.size();
        if ( i>=n ) i = n-1; // seems index == n as we lex
        while ( i>=0 && i<n ) {
            int ttype = tokens.get(i).getType();
            if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
                return tokens.get(i);
            }
            i--;
        }
        return null;
    }

    // -----
    // Comments
    //
    // ANTLR comments can be multi or single line and we don't care
    // which particularly. However we also accept
    // Javadoc style comments
    // of the form: /** ... */ and we do take care to distinguish those
    // from ordinary multi-line comments
    // Note how we guide the lexical PATH because we want to issue a decriptive
    // error message in case of a standalone '/' character, which makes no
    // sense in ANTLR source code. We also trap unterminated multi-line comments
    //
    fragment DOC_COMMENT : ;

```

COMMENT

```
@init {

    // Record the start line and offsets as if we need to report an
    // unterminated comment, then we want to show the start of the comment
    // we think is broken, not the end, where people will have to try and work
    // it out themselves.
    //
    int startLine = $line;
    int offset  = getCharPositionInLine();
}

: // Eat the first character only, then see if we have a comment
  // or something silly.
  //
  '/' // Comment introducer

(
    // Single line comment, possibly with embedded src/line directives
    // in a similar style to the C pre-processor, allowing
generated
    // code to refer the programmer back to the original source code
    // in case of error.
    //
    '/'
    (
        (' $ANTLR')=> ' $ANTLR' SRC
        | ~(NLCHARS)*
    )

| // Multi-line comment, which may be a documentation comment
  // if it starts /** (note that we protect against accidentally
  // recognizing a comment /**/ as a documentation comment
  //
  /** (
      { input.LA(2) != '/' }?=> '*' { $type = DOC_COMMENT; }
      | { true }?=> // Required to cover all alts with predicates
      )

    // Should we support embedded multiline comments here?
    //
    (
        // Pick out end of multiline comment and exit the loop
        // if we find it.
        //
        { !(input.LA(1) == '*' && input.LA(2) == '/') }?

        // Anything else other
```

than the non-greedy match of

```
// the comment close sequence
//
.
)*
(
    // Look for the comment terminator, but if it is accidentally
    // unterminated, then we will hit EOF, which will trigger the
    // epsilon alt and hence we can issue an error message relative
    // to the start of the unterminated multi-line comment
    //
    '*/'

    | // Unterminated comment!
    //
    {
        // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
    }
)

| // There was nothing that made sense following the opening '/' and so
// we issue an error regarding the malformed comment
//
{
    // TODO: Insert error message relative to comment
start
    //
    }
)
{
    // We do not wish to pass the comments in to the parser. If you are
    // writing a formatter then you will want to preserve the comments off
    // channel, but could just skip and save token space if not.
    //
    $channel=COMMENTS_CHANNEL;
}
;
```

ARG_OR_CHARSET

```
options {k=1;}
: {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
| {!isLexerRule}?=> ARG_ACTION
{
    $type=ARG_ACTION;
    // Set the token text to our gathered string minus outer [ ]
    String t = $text;
    t = t.substring(1,t.length()-1);
}
```

```

        setText(t);
    }
;

fragment
LEXER_CHAR_SET
: '['
  ( '\\' ~("\r"|\n')
    | ~("\r"|\n"|"\\'|')
  )*
  ']'
;

// -----
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In
// the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
: '['
  (
    ARG_ACTION

    | ('"')=>ACTION_STRING_LITERAL

    | ('\n')=>ACTION_CHAR_LITERAL

    | ~('[|']')
  )*
  ']'
;

// -----
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by { }) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting { } is no additional overhead.

```

```

//
ACTION
: NESTED_ACTION
( '?' { $type = SEMPRED; }
( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
{
Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
grammarError(ErrorType.V3_GATED_SEMPRED,
t);
}
)?
)?
;

// -----
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to inadvertently match {}.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

// Record the start line and offsets as if we need to report an
// unterminated block, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = getLine();
int offset = getCharPositionInLine();
}

: // Action
and other blocks start with opening {
//
'{'
(
// And now we can match one of a number of embedded
// elements within the action until we find a

```

```

// } that balances the opening {. If we do not find
// the balanced } then we will hit EOF and can issue
// an error message about the brace that we believe to
// be mismatched. This won't be foolproof but we will
// be able to at least report an error against the
// opening brace that we feel is in error and this will
// guide the user to the correction as best we can.
//

    // An embedded {} block
    //
    NESTED_ACTION

| // What appears to be a literal
    //
    ACTION_CHAR_LITERAL

| // We have assumed that the target language has C/Java
    // type comments.
    //
    COMMENT

| // What appears to be a literal
    //
    ACTION_STRING_LITERAL

| // What appears to be an escape sequence

    //
    ACTION_ESC

| // Some other single character that is not
    // handled above
    //
    ~("\|'\"|\"|'/{|}')

)*

(
    // Correctly balanced closing brace
    //
    '}'

| // Looks like have an imbalanced {} block, report
    // with respect to the opening brace.
    //
    {

```

```

        // TODO: Report imbalanced {}
        System.out.println("Block starting at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or
is missing a }");
    }
)
;

// Keywords
// -----
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//
OPTIONS    : 'options'
WSNLCHARS* '{' ;
TOKENS_SPEC : 'tokens' WSNLCHARS* '{' ;
CHANNELS    : 'channels' WSNLCHARS* '{' ;

IMPORT      : 'import'      ;
FRAGMENT    : 'fragment'    ;
LEXER       : 'lexer'       ;
PARSER      : 'parser'      ;
GRAMMAR     : 'grammar'     ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED   : 'protected'   ;
PUBLIC      : 'public'      ;
PRIVATE     : 'private'     ;
RETURNS     : 'returns'     ;
LOCALS      : 'locals'      ;
THROWS      : 'throws'      ;
CATCH       : 'catch'       ;
FINALLY     : 'finally'     ;
MODE        : 'mode'        ;

// -----
// Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
COLON       : ':'
{
    // scan backwards, looking for a RULE_REF or TOKEN_REF.
    // which would indicate the start of a rule definition.

```

```

// If we see a LPAREN, then it's the start of the subrule.
// this.tokens is the token string we are pushing into, so
// just loop backwards looking for a rule definition. Then
// we set isLexerRule.
Token t = getRuleOrSubruleStartToken();
if ( t!=null ) {
    if ( t.getType()==RULE_REF ) isLexerRule = false;
    else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
    // else must be subrule; don't alter context
}
}
;
COLONCOLON : '::'      ;
COMMA      : ','      ;
SEMI       : ';'      ;
LPAREN     : '('       ;
RPAREN     : ')'       ;
RARROW     : '->'      ;
LT         : '<'        ;
GT         : '>'        ;
ASSIGN     : '='       ;
QUESTION   : '?'       ;
;
SYNPRED    : '=>'
{
    Token t = new CommonToken(input, state.type, state.channel,
                               state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.V3_SYNPRED, t);
    $channel=HIDDEN;
}
;
STAR       : '*'       ;
PLUS       : '+'       ;
PLUS_ASSIGN : '+='     ;
OR         : '|'       ;
DOLLAR     : '$'       ;
DOT        : '.'       ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE      : '..'      ;
AT         : '@'       ;
POUND      : '#'       ;
NOT        : '~'       ;
RBRACE     : '}'       ;

/** Allow unicode rule/token names */
ID : a=NameStartChar NameChar*

```



```

    {
    if ( Grammar.isTokenName($a.text)
) $type = TOKEN_REF;
    else $type = RULE_REF;
    }
;

```

fragment

```

NameChar : NameStartChar
    | '0'..'9'
    | '_'
    | '\u00B7'
    | '\u0300'..'u036F'
    | '\u203F'..'u2040'
;

```

fragment

```

NameStartChar
    : 'A'..'Z' | 'a'..'z'
    | '\u00C0'..'u00D6'
    | '\u00D8'..'u00F6'
    | '\u00F8'..'u02FF'
    | '\u0370'..'u037D'
    | '\u037F'..'u1FFF'
    | '\u200C'..'u200D'
    | '\u2070'..'u218F'
    | '\u2C00'..'u2FEF'
    | '\u3001'..'uD7FF'
    | '\uF900'..'uFDCF'
    | '\uFDF0'..'uFEFE'
    | '\uFF00'..'uFFFD'
; // ignores | [\u10000-\uEFFFF] ;

```

// -----

// Literals embedded in actions

//

// Note that we have made the assumption that the language used within

// actions uses the fairly standard " and ' delimiters for literals and

//

that within these literals, characters are escaped using the \ character.

// There are some languages which do not conform to this in all cases, such

// as by using /string/ and so on. We will have to deal with such cases if

// if they come up in targets.

//

// Within actions, or other structures that are not part of the ANTLR

// syntax, we may encounter literal characters. Within these, we do

// not want to inadvertently match things like '}' and so we eat them

```

// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
: "\"" ((\\)=>ACTION_ESC | ~\" )* "\""
;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
: "\"" ((\\)=>ACTION_ESC | ~\" )* "\""
;

// Within literal
// strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
: '\\' .
;

// -----
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT : ('0'..'9')+
;

// -----
// Source spec
//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
{

```



```

| // An illegal escape sequence
~('b'|'t'|'n'|'f'|'r'|'\'|'\\'|'u') // \x for any invalid x (make sure to match char here)
{
    Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-2, getCharIndex()-1);
    t.setText(t.getText());
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-2);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, input.substring(getCharIndex()-
2,getCharIndex()-1));
}
)
;

```

fragment

UNICODE_ESC

@init {

```

// Flag to tell us whether we have a valid number of
// hex digits in the escape sequence
//
int hCount = 0;
}
: 'u' // Leadin for unicode escape sequence

```

```

// We now require 4 hex
digits. Note though
// that we accept any number of characters
// and issue an error if we do not get 4. We cannot
// use an infinite count such as + because this
// might consume too many, so we lay out the lexical
// options and issue an error at the invalid paths.
//
(
(
    HEX_DIGIT { hCount++; }
(
    HEX_DIGIT { hCount++; }
(
    HEX_DIGIT { hCount++; }
(
    // Four valid hex digits, we are good
    //
    HEX_DIGIT { hCount++; }

| // Three valid digits
)

| // Two valid digits

```

```

    )

    | // One valid digit
  )
  )
  | // No valid hex digits at all
)

// Now check the digit count and issue an error if we need to
//
{
  if (hCount < 4) {
    Interval
badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());
    String lastChar = input.substring(badRange.b, badRange.b);
    if ( lastChar.codePointAt(0)=="\" ) {
      badRange = new Interval(badRange.a, badRange.b - 1);
    }
    String bad = input.substring(badRange.a, badRange.b);
    Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, bad);
  }
}
;

fragment
UNICODE_EXTENDED_ESC
: 'u{' // Leadin for unicode extended escape sequence

    HEX_DIGIT+ // One or more hexadecimal digits

    '}' // Leadout for unicode extended escape sequence

// Now check the digit count and issue an error if we need to
{
  int numDigits = getCharIndex()-state.tokenStartCharIndex-6;
  if (numDigits > 6) {
    Token t = new
CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setText(t.getText());
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t,
input.substring(state.tokenStartCharIndex,getCharIndex()-1));
  }
}

```

```

;

// -----
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
: (
    ' '
    | '\t'
    | '\r'
    | '\n'
    | '\f'
  )+
  {$channel=HIDDEN;}
;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
: '\n' | '\r'
;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
: ' ' | '\t' | '\f'
;

// A fragment rule for recognizing
// both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
: ' ' | '\t' | '\f' | '\n' | '\r'
;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token

```

```

// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
: '\uFEFF' {skip();}
;

// -----
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the grammar
file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
: .
{
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
    grammarError(ErrorType.SYNTAX_ERROR, t, msg);
    state.syntaxErrors++;
    skip();
}
;

Found in path(s):
* /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/ANTLRLexer.g
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* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/LeftUnfactoredRuleFunction.java
* /antlr4-4-9-0-sources-jar/org/antlr/v4/codegen/model/LeftFactoredRuleFunction.java
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/*

```

```

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* can be found in the LICENSE.txt file in the project root.
*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the format that mimicks GCC output.
*/

```

```
location(file, line, column) ::= "<file>:<line>:<column>:"
```

```
message(id, text) ::= "<text> [error <id>]"
```

```
report(location, message, type) ::= "<location> <type>: <message>"
```

```
wantsSingleLineMessage() ::= "true"
```

```
Found in path(s):
```

```
* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg
```

```
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```

```

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*/

```

```

tree grammar ATNBuilder;
options {
    language    = Java;
    tokenVocab  = ANTLRParser;
    ASTLabelType = GrammarAST;
    // filter    = true;
}

```

```
// Include the copyright in this source and also the generated source
```

```
@header {
```

```

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*/

```

```

package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}

```



```

@members {
    ATNFactory factory;
    public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
        this(input);
        this.factory = factory;
    }
}

dummy : block[null] ; // avoid
error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
    List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
    int alt = 1;
    factory.setCurrentOuterAlt(alt);
}
: ^(BLOCK
    (^ (OPTIONS .*) )?
    ( a=alternative
        {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
    )+
)
{ $p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts); }
;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init { List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>(); }
: ^(BLOCK (^ (OPTIONS .*) )? (a=alternative {alts.add($a.p);})+)
{ $p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts); }
;

alternative returns [ATNFactory.Handle p]
@init { List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>(); }
: ^(LEXER_ALT_ACTION a=alternative lexerCommands)
    { $p = factory.lexerAltCommands($a.p,$lexerCommands.p); }
| ^(ALT elementOptions? EPSILON)    { $p
= factory.epsilon($EPSILON); }
| ^(ALT elementOptions? (e=element {els.add($e.p);})+) { $p = factory.alt(els); }
;

lexerCommands returns [ATNFactory.Handle p]
@init { List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>(); }
: (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
{
    $p = factory.alt(cmds);
}

```

```

;

lexerCommand returns [ATNFactory.Handle cmd]
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
  {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
| ID
  {$cmd = factory.lexerCommand($ID);}
;

lexerCommandExpr
: ID
| INT
;

element returns [ATNFactory.Handle p]
: labeledElement {$p = $labeledElement.p;}
| atom {$p = $atom.p;}
| subrule {$p = $subrule.p;}
| ACTION {$p = factory.action((ActionAST)$ACTION);}
| SEMPRED {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(ACTION .) {$p = factory.action((ActionAST)$ACTION);}
| ^(SEMPRED .) {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(NOT b=blockSet[true]) {$p = $b.p;}
| LEXER_CHAR_SET {$p = factory.charSetLiteral($start);}
;

astOperand returns [ATNFactory.Handle p]
: atom {$p = $atom.p;}
| ^(NOT blockSet[true]) {$p = $blockSet.p;}
;

labeledElement returns [ATNFactory.Handle p]
: ^(ASSIGN ID element) {$p = factory.label($element.p);}
| ^(PLUS_ASSIGN ID element) {$p = factory.listLabel($element.p);}
;

subrule returns [ATNFactory.Handle p]
: ^(OPTIONAL block[$start]) {$p = $block.p;}
| ^(CLOSURE block[$start]) {$p = $block.p;}
| ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
| block[null] {$p = $block.p;}
;

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
: ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
;

```

```

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
: ^(STRING_LITERAL .)
| ^(TOKEN_REF
.)
| STRING_LITERAL
| TOKEN_REF
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
| LEXER_CHAR_SET
;

atom returns [ATNFactory.Handle p]
: range    {$p = $range.p;}
| ^(DOT ID terminal) {$p = $terminal.p;}
| ^(DOT ID ruleref) {$p = $ruleref.p;}
| ^(WILDCARD .) {$p = factory.wildcard($start);}
| WILDCARD {$p = factory.wildcard($start);}
| blockSet[false] {$p = $blockSet.p;}
| terminal {$p = $terminal.p;}
| ruleref {$p = $ruleref.p;}
;

ruleref returns [ATNFactory.Handle p]
: ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*)) {$p = factory.ruleRef($RULE_REF);}
| ^(RULE_REF ARG_ACTION?) {$p = factory.ruleRef($RULE_REF);}
| RULE_REF {$p = factory.ruleRef($RULE_REF);}
;

range returns [ATNFactory.Handle p]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
;

terminal returns [ATNFactory.Handle p]
: ^(STRING_LITERAL .) {$p = factory.stringLiteral((TerminalAST)$start);}
| STRING_LITERAL {$p = factory.stringLiteral((TerminalAST)$start);}
| ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
| ^(TOKEN_REF .) {$p = factory.tokenRef((TerminalAST)$start);}
| TOKEN_REF {$p = factory.tokenRef((TerminalAST)$start);}
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)

```

```
| ^ (ASSIGN ID ACTION)
| ^ (ASSIGN ID INT)
;
```

Found in path(s):

* /antlr4-4-9-0-sources-jar/org/antlr/v4/parse/ATNBuilder.g

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```
/*
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 */
```

```
atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>
```

```
dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name> {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>
```

```
decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator=" "; ">}
>>
```

```
edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>
```

```
action-edge(src,target,label,arrowhead,transitionIndex)
::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>
```

```
epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
```

```

<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="ε"<if(loopback)>, style="dashed"<endif>];
>>

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
label="
    <! rest(transition) tests for decision states: these nodes have a non-empty set of transitions after the first one. !>
    <if(rest(transitions))>
        {
            <! Label on the left side of the record node. !>
            <label>
            |
            <! Named ports in order on right side of record node, no display text. !>
            {<transitions:{t|\<p<i0>>}; separator="|"} }
        <else>
            <label>
        <endif>
    "
    <if(rest(transitions))>
        , shape=record, fixedsize=false
    <else>
        , shape=circle, fixedsize=true, width=.55
    <endif>
    , peripheries=1];
%>

stopstate(name,label,actionIndex,useBox) ::= <<
<name>[fontsize=11, label="<label><if(actionIndex)>, \naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,
width=.6<endif>];
>>

Found in path(s):
* /antlr4-4-9-0-sources-jar/org/antlr/v4/tool/templates/dot/graphs.stg

```

1.86 log4j-api 2.17.1

1.86.1 Available under license :

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/w3c/dom/xpath/XPathExpression.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/w3c/dom/xpath/XPathResult.java
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jar/org/apache/xerces/parsers/XMLGrammarCachingConfiguration.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/parsers/BasicParserConfiguration.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/parsers/NonValidatingConfiguration.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/parsers/StandardParserConfiguration.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/DTDConfiguration.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/ObjectFactory.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/ObjectFactory.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/ObjectFactory.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/ObjectFactory.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xinclude/ObjectFactory.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/impl/XML11NSDocumentScannerImpl.java
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jar/org/apache/xerces/util/ShadowedSymbolTable.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/AttrImpl.java
*
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/XMLChar.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/XML11Char.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/AttrNSImpl.java
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 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/SecuritySupport.java
 *
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/SecuritySupport.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/html/dom/SecuritySupport12.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/SecuritySupport12.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/SecuritySupport.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/SecuritySupport12.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xinclude/SecuritySupport12.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/SecuritySupport12.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xinclude/SecuritySupport.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/SecuritySupport.java
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/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/parsers/IntegratedParserConfiguration.java

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- jar/org/apache/xerces/parsers/XMLDocumentParser.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
- jar/org/apache/xerces/impl/dv/SchemaDVFactory.java
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- /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/XSWildcardDecl.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/XMLDTDLoader.java
 *
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/XMLParser.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/impl/dtd/XML11DTDValidator.java
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 */
 /**

- * Create a new `LSParser`. The newly constructed parser may
- * then be configured by means of its `DOMConfiguration`
- * object, and used to parse documents by means of its `parse`
- * method.
- * @param mode The `mode` argument is either
- * `MODE_SYNCHRONOUS` or `MODE_ASYNCHRONOUS`, if
- * `mode` is `MODE_SYNCHRONOUS`

then the

- * `LSParser` that is created will operate in synchronous
- * mode, if it's `MODE_ASYNCHRONOUS` then the
- * `LSParser` that is created will operate in asynchronous
- * mode.
- * @param schemaType An absolute URI representing the type of the schema
- * language used during the load of a `Document` using the
- * newly created `LSParser`. Note that no lexical checking
- * is done on the absolute URI. In order to create a
- * `LSParser` for any kind of schema types (i.e. the
- * `LSParser` will be free to use any schema found), use the value
- * `null`.
- * <p>Note: For W3C XML Schema [[XML Schema Part 1](http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/)]
- * , applications must use the value
- * `"http://www.w3.org/2001/XMLSchema"`. For XML DTD [[XML](http://www.w3.org/TR/2000/REC-xml-20001006/)
- * 1.0
- *],
- * applications must use the value
- * `"http://www.w3.org/TR/REC-xml"`. Other Schema languages
- * are outside the scope of the W3C and therefore should recommend an
- * absolute URI in order to use this method.
- * @return The newly created `LSParser` object. This
- * `LSParser` is either synchronous or asynchronous
- * depending on the value of the `mode` argument.
- * <p>Note: By default, the newly created `LSParser`
- * does not contain a `DOMErrorHandler`, i.e. the value of
- * the "[parameter-error-handler](http://www.w3.org/TR/DOM-Level-3-Core/core.html#parameter-error-handler)"
- * configuration parameter is `null`. However, implementations
- * may provide a default error handler at creation time. In that case,
- * the initial value of the `"error-handler"`

configuration

- * parameter on the new `LSParser` object contains a
- * reference to the default error handler.
- * @exception DOMException
- * NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
- * not supported.
- */

Found in path(s):

- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/w3c/dom/ls/DOMImplementationLS.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/PSVIElementNSImpl.java

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jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/traversers/XSDGroupTraverser.java

*

/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/models/CMBuild.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/SchemaGrammar.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/traversers/XSDAbstractParticleTraverser.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java

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 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/util/XIntPool.java
 *
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/SymbolHash.java
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- jar/org/apache/xerces/util/DOMEntityResolverWrapper.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/validation/ValidationState.java

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/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DOMStringListImpl.java
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 jar/org/apache/xerces/jaxp/DocumentBuilderFactoryImpl.java
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 jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
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/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/jaxp/JAXPConstants.java
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- */
- /**
- * DOM Level 3 LS CR - Experimental.
- * Create a new `LSParser`. The newly constructed parser may
- * then be configured by means of its `DOMConfiguration`
- * object, and used to parse documents by
- means of its `parse`
- * method.
- * @param mode The `mode` argument is either
- * `MODE_SYNCHRONOUS` or `MODE_ASYNCHRONOUS`, if
- * `mode` is `MODE_SYNCHRONOUS` then the
- * `LSParser` that is created will operate in synchronous
- * mode, if it's `MODE_ASYNCHRONOUS` then the
- * `LSParser` that is created will operate in asynchronous
- * mode.
- * @param schemaType An absolute URI representing the type of the schema
- * language used during the load of a `Document` using the
- * newly created `LSParser`. Note that no lexical checking
- * is done on the absolute URI. In order to create a
- * `LSParser` for any kind of schema types (i.e. the
- * `LSParser` will be free to use any schema found), use the value
- * `null`.
- *

>Note: For W3C XML Schema [<http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/>>XML
- Schema Part 1]
- * , applications must use the value
- * `"http://www.w3.org/2001/XMLSchema"`. For XML DTD [<http://www.w3.org/TR/2000/REC-xml-20001006/>>XML 1.0],
- * applications must use the value
- * `"http://www.w3.org/TR/REC-xml"`. Other Schema languages
- * are outside the scope of the W3C and therefore should recommend an
- * absolute URI in order to use this method.

- * @return The newly created `LSParser` object. This
- * `LSParser` is either synchronous or asynchronous
- * depending on the value of the `mode` argument.
- * **Note:** By default, the newly created `LSParser`
- * does not contain a `DOMErrorHandler`, i.e. the value of
- * the "["](http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler)

configuration parameter is `null`. However, implementations

- * may provide a default error handler at creation time. In that case,
- * the initial value of the `"error-handler"` configuration
- * parameter on the new created `LSParser` contains a
- * reference to the default error handler.

- * @exception DOMException
- * NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
- * not supported.

*/

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*

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jar/org/apache/xerces/xs/XSComplexTypeDefinition.java
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jar/org/apache/xerces/xs/XSAttributeGroupDefinition.java
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jar/org/apache/xerces/xs/XSModelGroupDefinition.java
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jar/org/apache/xerces/xs/XSSimpleTypeDefinition.java
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jar/org/apache/xerces/xinclude/XInclude11TextReader.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java

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jar/org/apache/xerces/xni/grammars/XMLDTDDescription.java
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 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/impl/xs/XMLSchemaLoader.java
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- /**

- * DOM Level 3 WD Experimental:

- * The DOM Level 3 specification is at the stage

- * of Working Draft, which represents work in

- * progress and thus may be updated, replaced,

- * or obsoleted by other documents at any time. <p>

- * <code>XPathEvaluator</code>, which will provide evaluation of XPath 1.0

- * expressions with no specialized extension

functions or variables. It is

- * expected that the <code>XPathEvaluator</code> interface will be

- * implemented on the same object which implements the <code>Document</code>

- * interface in an implementation which supports the XPath DOM module.

- * <code>XPathEvaluator</code> implementations may be available from other

- * sources that may provide support for special extension functions or

- * variables which are not defined in this specification. The methods of

- * XPathExpression should be named with more-XPath- specific names because

- * the interface will often be implemented by the same object which

- * implements document.No change.The point of interfaces is to localize the

- * implementing namespace. This would make the method names unnecessarily

- * long and complex even though there are no conflicts in the interface

- * itself. The new core method getInterface is designed for discovering

- * interfaces of additional modules that may not be directly implemented on

- * the objects

to which they are attached. This could be used to implement

- * XPath on a separate object. The user only refers to the separate

- * interfaces and not the proprietary aggregate implementation.Should entity

- * refs be supported so that queries can be made on them?No change.We will

- * not do this now. They are not part of the XPath data model. Note that

- * they may be present in the hierarchy of returned nodes, but may not

- * directly be requested or returned in the node set.What does createResult

- * create when one wants to reuse the XPath?It is not useful.Removed method.

- * Should ordering be a separate flag, or a type of result that can be

- * requested. As a type of result, it can be better optimized in

- * implementations.It makes sense as a type of result. Changed.Removed

- * method.Implementing XPathEvaluator on Document can be a problem due to

- * conflicts in the names of the methods.The working group finds no better

- * solution. GetInterface in Level 3 permits the

object to be implemented

- * separately. We should be committed to this. We will leave this issue open

- * to see if we get more feedback on it.How does this interface adapt to

* XPath 2.0 and other query languages.No change.This interface is not
 * intended to adapt to XPath 2.0 or other languages. The models of these
 * are likely to be incompatible enough to require new APIs.For alternate
 * implementations that can use this API, it can be obtained from different
 * sources.Support for custom variables and functions would be very useful.
 * No change.It is possible for an implementation to supply alternative
 * sources of an XPathEvaluator that can be customized with a custom
 * variable and function context. We do not specify how this is
 * accomplished. It is too complex to address in this version of the XPath
 * DOM.
 * <p>See also the Document Object
 Model (DOM) Level 3 XPath Specification.
 */

Found

in path(s):

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/w3c/dom/xpath/XPathEvaluator.java
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jar/org/apache/xerces/impl/xs/identity/XPathMatcher.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DOMLocatorImpl.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/parsers/XMLGrammarPreparser.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DOMErrorImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/ValidationContext.java
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 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/BaseDVFactory.java

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 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/ElementPSVImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/SubstitutionGroupHandler.java

*

/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/traversers/XSDComplexTypeTraverser.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/traversers/XSDWildcardTraverser.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/dv/xs/SchemaDVFactoryImpl.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/XSAttributeGroupDecl.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/XSComplexTypeDecl.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/opti/DefaultText.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/DoubleDV.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/XSElementDecl.java

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jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/models/XSCMValidator.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/opti/TextImpl.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/QNameDV.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/traversers/XSDAttributeGroupTraverser.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/XSAnnotationImpl.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/traversers/XSDAbstractTraverser.java

*

/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/XSNotationDecl.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/traversers/XSDAttributeTraverser.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/traversers/XSDSimpleTypeTraverser.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/FloatDV.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/Constants.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/DOMParser.java
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jar/org/apache/xerces/xinclude/XIncludeNamespaceSupport.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xinclude/XIncludeTextReader.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xinclude/XIncludeHandler.java
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- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/XMLErrorReporter.java
- *
- /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/XMLDocumentFragmentScannerImpl.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/XMLDTDSScannerImpl.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/XML11DTDSScannerImpl.java

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- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/ASModel.java
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- /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/DocumentEditAS.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/ASContentModel.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/DOMASBuilder.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/DOMASWriter.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/DocumentAS.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/ASObjectList.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java
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/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/ASObject.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/ASDataType.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/EncodingMap.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/XMLNamespaceBinder.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/io/UTF8Reader.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/util/SimpleLocator.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/util/SAXMessageFormatter.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/XMLCatalogResolver.java

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 jar/org/apache/xerces/util/XMLResourceIdentifierImpl.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/BooleanDV.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/opti/DefaultDocument.java
 *
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/StringDV.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/XMLSchemaException.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/ListDV.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/opti/NamedNodeMapImpl.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/XSMessageFormatter.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/IDDV.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

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jar/org/apache/xerces/impl/xs/XSDeclarationPool.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/UnionDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/opti/DefaultElement.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/opti/AttrImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/TypeValidator.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/XSGrammarBucket.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/validation/EntityState.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dv/dtd/DTDDVFactoryImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/XSParticleDecl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dv/dtd/XML11DTDDVFactoryImpl.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/opti/NodeImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/HexBinaryDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/opti/ElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/IDREFDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/DecimalDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/opti/DefaultNode.java
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/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/EntityDV.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java
*

/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java

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 jar/org/apache/xerces/util/DOMErrorHandlerWrapper.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/xni/parser/XMLConfigurationException.java
 *
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/identity/ValueStore.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/xni/parser/XMLDTDScanner.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/xni/parser/XMLDTDSource.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/xni/parser/XMLDocumentFilter.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/util/EntityResolverWrapper.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/impl/xpath/XPathException.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/ASModelImpl.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/identity/Selector.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/parsers/AbstractXMLDocumentParser.java
 *
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/parser/XMLDTDFilter.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/xni/parser/XMLDTDContentModelFilter.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

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jar/org/apache/xerces/impl/xs/identity/FieldActivator.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xni/parser/XMLParseException.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/util/ParserConfigurationSettings.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xni/parser/XMLDocumentSource.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xni/parser/XMLDTDContentModelSource.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xni/parser/XMLDocumentScanner.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/impl/dv/dtd/NMTOKENDatatypeValidator.java
 *
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/impl/dv/dtd/XML11NMTOKENDatatypeValidator.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/XSDDescription.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/HTMLdtd.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DeferredAttrNSImpl.java
*
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/ElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom/DeferredDocumentImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/ElementNSImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xml/serialize/BaseMarkupSerializer.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DeferredNotationImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/TextSerializer.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/NamedNodeMapImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DeferredAttrImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/XSAttributeUseImpl.java
*
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/util/HexBin.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/DOMUtil.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/util/Base64.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DeferredTextImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom/DeferredElementNSImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/SerializerFactory.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/CoreDocumentImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/Version.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom/DeferredDocumentTypeImpl.java
*
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/XMLGrammarPoolImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/Printer.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DeferredEntityImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom/DOMImplementationImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/OutputFormat.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/models/XSCMLLeaf.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/XMLSerializer.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/XML11Serializer.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/DatatypeValidator.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/XSFacets.java

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/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/DTDDVFactory.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/XSSimpleType.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/dv/DVFactoryException.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/dv/InvalidDatatypeValueException.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/ValidatedInfo.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/dv/InvalidDatatypeFacetException.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/dv/DatatypeException.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/identity/KeyRef.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DocumentImpl.java

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 jar/org/apache/xerces/jaxp/DocumentBuilderImpl.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/jaxp/SAXParserImpl.java

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- jar/org/apache/xerces/dom/DOMConfigurationImpl.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/AbstractSAXParser.java
- *
- /*xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/AbstractDOMParser.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/util/XSObjectListImpl.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/parsers/XMLGrammarParser.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/models/XSAllCM.java
 *

/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/XSGroupDecl.java

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- * /
- /**
- * used to check the 3 constraints against each complex type
- * (should be each model group):
- * Unique Particle Attribution, Particle Derivation (Restriction),
- * Element Declarations Consistent.
- * /

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 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/dom/DeferredCommentImpl.java
 *
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xpath/regex/Token.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/impl/dtd/models/MixedContentModel.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/dom/ASDOMImplementationImpl.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/NotationImpl.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/impl/dtd/models/SimpleContentModel.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/EntityImpl.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom/DeferredEntityReferenceImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/models/XSCMUniOp.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/NodeImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dtd/models/CMStateSet.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xpath/regex/Match.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/CharacterDataImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/LCount.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/XMLStringBuffer.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/models/CMNode.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dv/dtd/XML11IDDatatypeValidator.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xpath/regex/BMPattern.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/NodeIteratorImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/EntityReferenceImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom/events/MutationEventImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/TreeWalkerImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/RangeExceptionImpl.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/models/CMUniOp.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/TextImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/XMLEntityDecl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/CachingParserPool.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/ElementState.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/CommentImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xpath/regex/Op.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xpath/regex/ParseException.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom/ProcessingInstructionImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dtd/models/CMBinOp.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/ParentNode.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/IndentPrinter.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xpath/regex/REUtil.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/MessageFormatter.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DeferredProcessingInstructionImpl.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/models/DFAContentModel.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/DOMSerializer.java
 *
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DocumentTypeImpl.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/DTDParser.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/CDATASectionImpl.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DeferredNode.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/PSVIDOMImplementationImpl.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DeferredElementDefinitionImpl.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/dtd/IDREFDatatypeValidator.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/XMLAttributeDecl.java
 *
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/LineSeparator.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/DTDGrammarBucket.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/SerializerFactoryImpl.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/dtd/IDDatatypeValidator.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/XMLAttributeDecl.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/ElementDefinitionImpl.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xpath/regex/RegularExpression.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/events/EventImpl.java
 *
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/dtd/ENTITYDatatypeValidator.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/Method.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/Serializer.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/XMLNotationDecl.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/models/ContentModelValidator.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/models/CMLLeaf.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/XMLContentSpec.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
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 jar/org/apache/xerces/jaxp/DefaultValidationErrorHandler.java

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 jar/org/apache/xerces/impl/xs/util/XSNamedMapImpl.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/IntegerDV.java
 *

/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/impl/xs/util/XSNamedMap4Types.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/dom/DOMMessageFormatter.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/AttributeMap.java

*

/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/impl/XML11NamespaceBinder.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/io/UCSReader.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/SymbolTable.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/SchemaSymbols.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/io/ASCIIReader.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

jar/org/apache/xerces/util/SynchronizedSymbolTable.java

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 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/impl/xpath/regex/RegexParser.java
 *
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
 jar/org/apache/xerces/dom/DocumentFragmentImpl.java
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- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/util/ShortListImpl.java

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Found in path(s):

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/parsers/XML11Configuration.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/parsers/SecurityConfiguration.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/identity/Field.java
 * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/ErrorHandlerWrapper.java
 *

/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/XMLLocator.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DOMNormalizer.java

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jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLQuoteElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLBElement.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLStrongElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLLabelElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/wml/dom/WMLNoopElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLAppletElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLTableColElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLBaseFontElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLDoElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/wml/dom/WMLAccessElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLPElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLMetaElementImpl.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLTdElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLDListElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLAccessElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLIsIndexElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/wml/dom/WMLAnchorElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/wml/dom/WMLPostfieldElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLUElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLTdElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLFrameElementImpl.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/html/dom/HTMLPreElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLTableSectionElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLCardElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLHeadingElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLDoElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLTitleElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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jar/org/apache/html/dom/HTMLLinkElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLIFrameElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLAElement.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/html/dom/HTMLHRElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLTemplateElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/wml/dom/WMLSelectElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLIElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLModElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLWmlElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLBrElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLOptionElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/wml/dom/WMLStrongElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLMetaElementImpl.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLButtonElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLGoElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLFormElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLFrameSetElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLTextAreaElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLUElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLGoElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLBigElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLDirectoryElementImpl.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/html/dom/HTMLDivElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLSelectElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLHtmlElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLSmallElement.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/wml/dom/WMLRefreshElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLNoopElement.java
*

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/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLWmlElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLAreaElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLHeadElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLDOMImplementation.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/wml/dom/WMLOptgroupElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLImgElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLTableElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLParagraphElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLObjectElementImpl.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLDocumentImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/html/dom/HTMLBRElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/html/dom/HTMLLIElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLTableCellElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLMetaElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLPrevElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLBodyElementImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLDOMImplementationImpl.java
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/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLPostfieldElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLPrevElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLCardElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLAnchorElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLBElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/html/dom/HTMLElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/html/dom/NameNodeListImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLFieldsetElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-

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jar/org/apache/html/dom/HTMLScriptElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLInputElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLSetvarElement.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLPElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/html/dom/HTMLCollectionImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLIElementImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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*
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLAElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLTrElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLTableRowElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLTimerElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLBigElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLInputElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLOptgroupElement.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLRefreshElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/wml/dom/WMLHeadElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLImageElementImpl.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLOLListElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/wml/dom/WMLDOMImplementationImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/wml/dom/WMLOptionElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLImgElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/wml/dom/WMLSmallElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/wml/dom/WMLSetvarElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLDocument.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLBaseElementImpl.java
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- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/bootstrap/DOMImplementationRegistry.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/TypeInfo.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/NamedNodeMap.java
- *
- /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/DOMError.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/DOMImplementationList.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/DOMException.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/DOMImplementation.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/ProcessingInstruction.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/Text.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/DOMImplementationSource.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/DOMError.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/bootstrap/DOMImplementationListImpl.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/CDATASection.java
- *
- /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/DOMErrorHandler.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/Comment.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/Node.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/DOMStringList.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/NodeList.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/CharacterData.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/DOMConfiguration.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/EntityReference.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/Notation.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/DOMImplementationSource.java
- *
- /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/DOMStringList.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/DocumentFragment.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/Attr.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/NameList.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/Document.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/Element.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/Entity.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/UserDataHandler.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/DOMImplementationList.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/TypeInfo.java
- *
- /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/DOMErrorHandler.java
- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/DocumentType.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom3/bootstrap/DOMImplementationRegistry.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/dom3/org/w3c/dom/bootstrap/DOMImplementationListImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/UserDataHandler.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/DOMLocator.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/XMLDocumentScannerImpl.java

*

/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/XMLEntityManager.java

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- jar/org/apache/xerces/xni/grammars/XMLSchemaDescription.java
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jar/org/apache/xerces/xni/parser/XMLParserConfiguration.java

*

/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/NodeListCache.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom/DOMImplementationSourceImpl.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom/DOMXSImplementationSourceImpl.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/identity/UniqueOrKey.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xni/XMLDocumentFragmentHandler.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/XNIException.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xni/parser/XMLEntityResolver.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xni/parser/XMLPullParserConfiguration.java

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jar/org/apache/xerces/xni/parser/XMLErrorHandler.java

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- * /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/NamespaceSupport.java

```

*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/IntStack.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xni/grammars/XMLGrammarLoader.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xni/parser/XMLComponentManager.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xni/parser/XMLComponent.java

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* /gson-2-8-9-sources-2-jar/com/google/gson/stream/MalformedJsonException.java
* /gson-2-8-9-sources-2-jar/com/google/gson/stream/JsonScope.java
* /gson-2-8-9-sources-2-jar/com/google/gson/stream/JsonToken.java
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- * /gson-2-8-9-sources-2-jar/com/google/gson/FieldAttributes.java
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```

Found in path(s):

```
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TreeTypeAdapter.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/ConstructorConstructor.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java
*
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/UnsafeAllocator.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/LazilyParsedNumber.java
```

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```
* /gson-2-8-9-sources-2-jar/com/google/gson/JsonElement.java
* /gson-2-8-9-sources-2-jar/com/google/gson/JsonObject.java
```

```

* /gson-2-8-9-sources-2-jar/com/google/gson/JsonArray.java
* /gson-2-8-9-sources-2-jar/com/google/gson/FieldNamingStrategy.java
* /gson-2-8-9-sources-2-jar/com/google/gson/annotations/SerializedName.java
*
/gson-2-8-9-sources-2-jar/com/google/gson/JsonDeserializationContext.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/Excluder.java
* /gson-2-8-9-sources-2-jar/com/google/gson/FieldNamingPolicy.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/$Gson$Preconditions.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java
* /gson-2-8-9-sources-2-jar/com/google/gson/JsonSerializationContext.java
* /gson-2-8-9-sources-2-jar/com/google/gson/JsonParseException.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/ObjectConstructor.java
* /gson-2-8-9-sources-2-jar/com/google/gson/Gson.java
* /gson-2-8-9-sources-2-jar/com/google/gson/JsonIOException.java
* /gson-2-8-9-sources-2-jar/com/google/gson/reflect/TypeToken.java
* /gson-2-8-9-sources-2-jar/com/google/gson/JsonDeserializer.java
* /gson-2-8-9-sources-2-jar/com/google/gson/annotations/Expose.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/Primitives.java
* /gson-2-8-9-sources-2-jar/com/google/gson/GsonBuilder.java
*
/gson-2-8-9-sources-2-jar/com/google/gson/JsonSerializer.java
* /gson-2-8-9-sources-2-jar/com/google/gson/annotations/Since.java
* /gson-2-8-9-sources-2-jar/com/google/gson/JsonPrimitive.java
* /gson-2-8-9-sources-2-jar/com/google/gson/ExclusionStrategy.java
* /gson-2-8-9-sources-2-jar/com/google/gson/annotations/Until.java
* /gson-2-8-9-sources-2-jar/com/google/gson/InstanceCreator.java
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```

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* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/JsonTreeReader.java

```

```

* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
*
/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /gson-2-8-9-sources-2-jar/com/google/gson/TypeAdapterFactory.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TypeAdapters.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /gson-2-8-9-sources-2-jar/com/google/gson/TypeAdapter.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/JsonTreeWriter.java
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```

* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java
* /gson-2-8-9-sources-2-jar/com/google/gson/annotations/JsonAdapter.java
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* /gson-2-8-9-sources-2-jar/com/google/gson/internal/reflect/PreJava9ReflectionAccessor.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/reflect/ReflectionAccessor.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/reflect/UnsafeReflectionAccessor.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/PreJava9DateFormatProvider.java
*

/gson-2-8-9-sources-2-jar/com/google/gson/internal/JavaVersion.java

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1.100 fast-infoaset 1.2.15

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Manifest-Version: 1.0

Bnd-LastModified: 1648465920192

Bundle-Description: istack common utility code

Bundle-DocURL: <https://www.eclipse.org>

Bundle-License: <http://www.eclipse.org/org/documents/edl-v10.php>

Bundle-ManifestVersion: 2

Bundle-Name: istack common utility code runtime
Bundle-SymbolicName: com.sun.istack.common-runtime
Bundle-Vendor: Eclipse Foundation
Bundle-Version: 4.1.1
Created-By: Apache Maven Bundle Plugin 5.1.4
Export-Package: com.sun.istack;uses="jakarta.activation,javax.xml.stream,org.xml.sax,org.xml.sax.helpers";version="4.1.1",com.sun.istack.localization;version="4.1.1",com.sun.istack.logging;version="4.1.1"
Implementation-Build-Id: 4.1.1 - d6e5d28
Implementation-Vendor: Eclipse Foundation
Implementation-Vendor-Id: com.sun.istack
Import-Package: jakarta.activation;version="[2.1,3)";resolution:=optional,javax.xml.namespace,javax.xml.stream,org.xml.sax,org.xml.sax.helpers
Require-Capability:
osgi.ee;filter="(&(osgi.ee=JavaSE)(version=11))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /istack-commons-runtime-4-1-1-jar/META-INF/MANIFEST.MF

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1.104 jsp 3.1

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- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TryCatchFinally.java
- *
- /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/DynamicAttributes.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/JspTag.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/IterationTag.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TagExtraInfo.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/FunctionMapper.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/ELException.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/JspPage.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/PageContext.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/SkipPageException.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/BodyContent.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/JspException.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/FunctionInfo.java
- *
- /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/ScopedAttributeELResolver.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/NotFoundELResolver.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/ExpressionEvaluator.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/ErrorData.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/BodyTagSupport.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/JspApplicationContext.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/JspWriter.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/ValidationMessage.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/JspEngineInfo.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TagFileInfo.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/Tag.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/JspFactory.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/BodyTag.java
- *
- /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TagAdapter.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TagLibraryValidator.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/JspFragment.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/ELParseException.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/PageData.java
- * /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/VariableResolver.java

```
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/JspTagException.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/SimpleTagSupport.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/Expression.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/JspContext.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TagData.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/ImplicitObjectELResolver.java
*
/tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TagInfo.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TagLibraryInfo.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/SimpleTag.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TagAttributeInfo.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/ImportELResolver.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/HttpJspPage.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TagSupport.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TagVariableInfo.java
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* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/LocalStrings_ko.properties
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/LocalStrings.properties
```

* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/LocalStrings_es.properties
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/LocalStrings_de.properties
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/LocalStrings_ja.properties
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1.110 scala 2.13.9

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (a, b) => ... }`

```
val x: ((Int, Int) => Int) = (((a, b)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }`

```
val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the

Tuple3,

or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }`

```
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
```

^

3 errors

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1.113 spring-plugin-metadata 2.0.0.RELEASE

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1.117 asm 9.4

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*
/asm-9-4-sources-1-jar/org/objectweb/asm/Label.java
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* /asm-9-4-sources-1-jar/org/objectweb/asm/Symbol.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/MethodTooLargeException.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/Type.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/MethodVisitor.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/Frame.java
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* /asm-9-4-sources-1-jar/org/objectweb/asm/RecordComponentVisitor.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/MethodWriter.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/ByteVector.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/signature/SignatureWriter.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/ClassTooLargeException.java
*
/asm-9-4-sources-1-jar/org/objectweb/asm/AnnotationVisitor.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/Opcodes.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/CurrentFrame.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/RecordComponentWriter.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/ClassVisitor.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/SymbolTable.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/Edge.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/Constants.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/Handler.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/ModuleVisitor.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/TypePath.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/FieldVisitor.java
* /asm-9-4-sources-1-jar/org/objectweb/asm/ClassReader.java
```

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1.118 cxf-rt-frontend-simple 3.5.5

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1.124 cxf-rt-bindings-xml 3.5.5

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1.125 stax-ex 1.8

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: build
Build-Jdk: 9.0.4
Implementation-Title: Extended StAX API
Implementation-Version: 1.8
Implementation-Vendor-Id: org.jvnet.staxex
Implementation-URL: <http://stax-ex.java.net/>
Implementation-Build-Id: \${scmBranch}-\${buildNumber}, \${timestamp}
Bnd-LastModified: 1524563042303
Bundle-Description: Extensions to JSR-173 StAX API.
Bundle-License: https://glassfish.dev.java.net/public/CDDL+GPL_1_1.html
1
Bundle-ManifestVersion: 2
Bundle-Name: Extended StAX API
Bundle-SymbolicName: org.jvnet.staxex.stax-ex

Bundle-Version: 1.8.0

Export-Package: org.jvnet.staxex;version="1.8.0";uses:="javax.activation,javax.xml.namespace,javax.xml.stream",org.jvnet.staxex.util;version="1.8.0";uses:="javax.xml.bind.attachment,javax.xml.namespace,javax.xml.stream,org.w3c.dom"

Import-Package: javax.activation,javax.xml.bind.attachment,javax.xml.namespace,javax.xml.stream,org.jvnet.staxex;version="[1.8,2)",org.w3c.dom

Originally-Created-By: Apache Maven Bundle Plugin

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=9.0))"

Tool: Bnd-3.5.0.201709291849

Found in path(s):

* /stax-ex-1-8-9-jar/META-INF/MANIFEST.MF

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* /stax-ex-1-8-9-jar/META-INF/maven/org.jvnet.staxex/stax-ex/pom.xml

1.126 angus-activation 1.0.0

1.126.1 Available under license :

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1.127 jackson 2.14.2

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1.128 jackson-databind 2.14.2

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1.129 error_prone_annotations 2.18.0

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Found in path(s):

* /error-prone-annotations-2-18-0-jar/META-INF/maven/com.google.errorprone/error_prone_annotations/pom.xml

1.130 jakarta-servlet-api 6.0.0

1.130.1 Available under license :

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/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/annotation/ServletSecurity\$TransportGuarantee.class: binary file
matches

Found in path(s):

* /bin/grep

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Found in path(s):

* /jakarta-servlet-api-6-0-0-jar/META-INF/maven/jakarta.servlet/jakarta.servlet-api/pom.xml

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Found in path(s):

* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-jsptaglibrary_1_2.dtd

* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-jsptaglibrary_1_1.dtd

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Found in path(s):

- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_3_1.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_3_1.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_2_1.xsd
- *
- /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_client_1_3.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_2_3.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_4_0.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_5.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_client_1_4.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_1_4.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-jsptaglibrary_2_0.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_client_1_2.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_1_2.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_2_5.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/j2ee_1_4.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_3_0.xsd
- *
- /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-jsptaglibrary_2_1.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_8.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_4_0.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_7.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_2_0.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/j2ee_web_services_1_1.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_1_3.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-common_3_0.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_2_4.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_6.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-common_4_0.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_2_2.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/j2ee_web_services_client_1_1.xsd
- *
- /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_3_0.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-common_3_1.xsd

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<xsd:enumeration value="CONFIDENTIAL"/>

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Used in: user

Found in path(s):

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Found in path(s):

* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/package.html

* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/package.html

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- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-jsptaglibrary_3_1.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_6_0.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_6_0.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jakartaee_10.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jakartaee_web_services_client_2_0.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_3_1.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jakartaee_web_services_2_0.xsd

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- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/LocalStrings_ja.properties
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/LocalStrings_fr.properties
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/LocalStrings_ja.properties
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/LocalStrings_es.properties
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/LocalStrings_fr.properties
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/LocalStrings.properties
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/LocalStrings.properties

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Found in path(s):

- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-common_5_0.xsd

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- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jakartaee_9.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_3_0.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_5_0.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_5_0.xsd

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Manifest-Version: 1.0

Created-By: Apache Maven Bundle Plugin

Build-Jdk-Spec: 11

Bnd-LastModified: 1652339954197

Build-Jdk: 11.0.2

Built-By: jenkins

Bundle-Description: Jakarta Servlet 6.0

Bundle-DocURL: <https://www.eclipse.org>

Bundle-License: <http://www.eclipse.org/legal/epl-2.0>, <https://www.gnu.org/software/classpath/license.html>

Bundle-ManifestVersion: 2

Bundle-Name: Jakarta Servlet

Bundle-SymbolicName: jakarta.servlet-api

Bundle-Vendor: Eclipse Foundation

Bundle-Version: 6.0.0

Export-Package: jakarta.servlet;uses:="jakarta.servlet.annotation,jakarta.servlet.descriptor";version="6.0.0",jakarta.servlet.annotation;uses:="jakarta.servlet";version="6.0.0",jakarta.servlet.descriptor;version="6.0.0",jakarta.servlet.http;uses:="jakarta.servlet";version="6.0.0",jakarta.servlet.resources;version="6.0.0"

Extension-Name: jakarta.servlet

Implementation-Vendor: Eclipse Foundation

Implementation-Vendor-Id: org.eclipse

Implementation-Version:

6.0.0

Import-Package: jakarta.servlet,jakarta.servlet.annotation,jakarta.servlet.descriptor

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=11))"

Specification-Vendor: Eclipse Foundation

Specification-Version: 6.0

Tool: Bnd-5.1.1.202006162103

Found in path(s):

- * /jakarta-servlet-api-6-0-0-jar/META-INF/MANIFEST.MF

1.131 servlet-api 6.0.0

1.131.1 Available under license :

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The original XML Schemas for Java EE Deployment Descriptors:

- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:

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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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- jakartaee_10.xsd
- jakarta_web-services_2_0.xsd
- jakarta_web-services_client_2_0.xsd
- jsp_3_0.xsd
- jsp_3_1.xsd
- web-app_5_0.xsd
- web-app_6_0.xsd
- web-commonn_5_0.xsd
- web-commonn_6_0.xsd
- web-fragment_5_0.xsd
- web-fragment_6_0.xsd
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- web-jsptaglibrary_3_0.xsd
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1.132 openssl 1.1.1t

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```
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```

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```
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```

```
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1.133 cxf-rt-management 3.5.5

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 */
```

Found in path(s):

```
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/Escaper.java  
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.java  
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java
```

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/**
 * A Base64 encoder/decoder.
 *
 * <p>
 * This class is used to encode and decode data in Base64 format as described in RFC 1521.
 *
 * <p>
 * Project home page: <a href="http://www.source-code.biz/base64coder/java/">www.
 * source-code.biz/base64coder/java</a><br>
 * Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland<br>
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```

Found in path(s):

```

* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/SafeRepresenter.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/Parser.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/ScalarNode.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/ValueToken.java
*
/sakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/StreamEndEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CollectionEndEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/AliasEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/ScalarEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/EmitterState.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/DirectiveToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/StreamStartEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CommentEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/AliasToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/Construct.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/ImplicitTuple.java
*
/sakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/CustomClassLoaderConstructor.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/Property.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/Production.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/resolver/ResolverTuple.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/Scanner.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/composer/ComposerException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/MappingNode.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/Emitable.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingEndToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/DumperOptions.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceEndToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/AnchorNode.java

```

```

* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/Represent.java
*
/sakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/Node.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingStartToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/reader/ReaderException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/SafeConstructor.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/Constant.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/NodeId.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/AnchorGenerator.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/DocumentEndToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/ParserImpl.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/ScalarToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/MethodProperty.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CollectionStartEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/UriEncoder.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/reader/UnicodeReader.java
*
/sakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockMappingStartToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/CollectionNode.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/StreamStartToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/DocumentStartToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockSequenceStartToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/ConstructorException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/BaseRepresenter.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/PlatformFeatureDetector.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/VersionTagsTuple.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/Yaml.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/UnTrustedTagInspector.java
*
/sakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/ParserException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/MarkedYAMLException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/Representer.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/NodeTuple.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TrustedTagInspector.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/Serializer.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/EmitterException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/FieldProperty.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/BeanAccess.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentLine.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/LoaderOptions.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/CommentToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java
*
/sakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TrustedPrefixesTagInspector.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/SerializerException.java

```

- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/Mark.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/ArrayUtils.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/YAMLEException.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/DocumentEndEvent.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/Emitter.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/MappingEndEvent.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/ArrayStack.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/EnumUtils.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/TypeDescription.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/ScannerException.java
- *
- /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceStartToken.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/SequenceNode.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/resolver/Resolver.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TagInspector.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/Constructor.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/SimpleKey.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/DocumentStartEvent.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowEntryToken.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentEventsCollector.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/TagToken.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/Token.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/AnchorToken.java
- *
- /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/MissingEnvironmentVariableException.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/BaseConstructor.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/StreamEndToken.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/composer/Composer.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/Tag.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/NodeEvent.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/reader/StreamReader.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/internal/Logger.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/MappingStartEvent.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/ScannerImpl.java
- *
- /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/KeyToken.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/TagTuple.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockEntryToken.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/MissingProperty.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/Event.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentType.java
- * /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java

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1.141 jackson-annotations 2.14.2

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1.142 zstd-jni 1.5.5-1

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1.143 junit-jupiter-engine 5.9.2

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1.145 junit-platform-engine 1.9.2

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1.146 junit-platform-commons 1.9.2

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1.147 kafka-schema-registry-client 7.4.0

1.147.1 Available under license :

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```
<project xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">

  <modelVersion>4.0.0</modelVersion>

  <parent>
    <groupId>io.confluent</groupId>
    <artifactId>kafka-schema-registry-parent</artifactId>
    <version>7.4.0</version>
  </parent>

  <licenses>
    <license>
      <name>Apache License 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
      <distribution>repo</distribution>
    </license>
  </licenses>

  <artifactId>kafka-schema-registry-client</artifactId>
  <packaging>jar</packaging>
  <name>kafka-schema-registry-client</name>

  <dependencies>
    <dependency>
      <groupId>org.yaml</groupId>
      <artifactId>snakeyaml</artifactId>
    </dependency>
    <dependency>
      <groupId>org.apache.kafka</groupId>
      <artifactId>kafka-clients</artifactId>
    </dependency>
    <dependency>
      <groupId>org.apache.avro</groupId>
      <artifactId>avro</artifactId>
    </dependency>
    <dependency>
      <groupId>org.apache.commons</groupId>
      <artifactId>commons-compress</artifactId>
    </dependency>
```

```

<dependency>
  <groupId>com.fasterxml.jackson.core</groupId>
  <artifactId>jackson-databind</artifactId>
</dependency>
<dependency>
  <groupId>org.easymock</groupId>
  <artifactId>easymock</artifactId>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.mockito</groupId>
  <artifactId>mockito-core</artifactId>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.mockito</groupId>
  <artifactId>mockito-inline</artifactId>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>io.swagger.core.v3</groupId>
  <artifactId>swagger-annotations</artifactId>
</dependency>
<dependency>
  <groupId>com.google.guava</groupId>
  <artifactId>guava</artifactId>
</dependency>
<dependency>
  <groupId>com.google.guava</groupId>
  <artifactId>guava-testlib</artifactId>
  <version>${guava.version}</version>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.mockito</groupId>
  <artifactId>mockito-core</artifactId>
  <scope>test</scope>
</dependency>
</dependencies>
</project>

```

Found in path(s):

* /kafka-schema-registry-client-7-4-0-jar/META-INF/maven/io.confluent/kafka-schema-registry-client/pom.xml

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```

io.confluent.kafka.schemaregistry.client.config.provider.SchemaRegistryConfigProvider

Found in path(s):

* /kafka-schema-registry-client-7-4-0-jar/META-

INF/services/org.apache.kafka.common.config.provider.ConfigProvider

1.148 kafka-schema-serializer 7.4.0

1.148.1 Available under license :

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```
<project xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">

  <modelVersion>4.0.0</modelVersion>

  <parent>
    <groupId>io.confluent</groupId>
    <artifactId>kafka-schema-registry-parent</artifactId>
    <version>7.4.0</version>
  </parent>

  <licenses>
    <license>
      <name>Apache License 2.0</name>
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      <distribution>repo</distribution>
    </license>
  </licenses>
```

```

<artifactId>kafka-schema-serializer</artifactId>
<packaging>jar</packaging>
<name>kafka-schema-serializer</name>

<dependencies>
  <dependency>
    <groupId>org.apache.kafka</groupId>
    <artifactId>kafka_${kafka.scala.version}</artifactId>
    <scope>provided</scope>
  </dependency>
  <dependency>
    <groupId>io.confluent</groupId>
    <artifactId>kafka-schema-registry-client</artifactId>
    <version>${io.confluent.schema-registry.version}</version>
  </dependency>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <scope>test</scope>
  </dependency>
</dependencies>
</project>

```

Found in path(s):

* /kafka-schema-serializer-7-4-0-jar/META-INF/maven/io.confluent/kafka-schema-serializer/pom.xml

1.149 kafka-avro-serializer 7.4.0

1.149.1 Available under license :

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```

<project xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">

  <modelVersion>4.0.0</modelVersion>

  <parent>
    <groupId>io.confluent</groupId>
    <artifactId>kafka-schema-registry-parent</artifactId>
    <version>7.4.0</version>
  </parent>

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    <license>
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```

```

        <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
        <distribution>repo</distribution>
    </license>
</licenses>

<artifactId>kafka-avro-serializer</artifactId>
<packaging>jar</packaging>
<name>kafka-avro-serializer</name>

<dependencies>
    <dependency>
        <groupId>org.apache.kafka</groupId>
        <artifactId>kafka_${kafka.scala.version}</artifactId>
        <scope>provided</scope>
    </dependency>
    <dependency>
        <groupId>org.apache.avro</groupId>
        <artifactId>avro</artifactId>
    </dependency>
    <dependency>
        <groupId>org.apache.commons</groupId>
        <artifactId>commons-compress</artifactId>
    </dependency>
    <dependency>
        <groupId>io.confluent</groupId>
        <artifactId>kafka-schema-serializer</artifactId>
        <version>${io.confluent.schema-registry.version}</version>
    </dependency>
    <dependency>
        <groupId>io.confluent</groupId>
        <artifactId>kafka-schema-registry-client</artifactId>
        <version>${io.confluent.schema-registry.version}</version>
    </dependency>

    <dependency>
        <groupId>com.google.guava</groupId>
        <artifactId>guava</artifactId>
    </dependency>
    <dependency>
        <groupId>junit</groupId>
        <artifactId>junit</artifactId>
        <scope>test</scope>
    </dependency>
    <dependency>
        <groupId>org.slf4j</groupId>
        <artifactId>slf4j-reload4j</artifactId>
        <scope>test</scope>
    </dependency>

```

```

    <dependency>
      <groupId>io.confluent</groupId>
      <artifactId>logredactor</artifactId>
    </dependency>
  </dependencies>

  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.avro</groupId>
        <artifactId>avro-maven-plugin</artifactId>
        <executions>
          <execution>
            <phase>generate-sources</phase>
            <goals>
              <goal>schema</goal>
            </goals>
            <configuration>
              <testSourceDirectory>${project.basedir}/src/test/avro</testSourceDirectory>
            </configuration>
          </execution>
        </executions>
      </plugin>
    </plugins>
  </build>
</project>

```

Found in path(s):

* /kafka-avro-serializer-7-4-0-jar/META-INF/maven/io.confluent/kafka-avro-serializer/pom.xml

1.150 common-utils 7.4.0

1.150.1 Available under license :

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1.151 json-smart 2.4.11

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 */
```

Found in path(s):

```
* /json-smart-2-4-11-sources-jar/net/minidev/json/JSONAware.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/JSONStreamAwareEx.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/parser/JSONParserByteArray.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/JSONArray.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/JSONAwareEx.java
*
* /json-smart-2-4-11-sources-jar/net/minidev/json/parser/JSONParserReader.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/writer/JsonReaderI.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/JSONNavi.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/parser/JSONParserMemory.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/JStylerObj.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/writer/CollectionMapper.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/writer/CompressorMapper.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/parser/JSONParserString.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/parser/JSONParser.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/JSONUtil.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/parser/ParseException.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/parser/JSONParserStream.java
```



```

* /json-smart-2-4-11-sources-jar/net/minidev/json/JSONObject.java
*
/json-smart-2-4-11-sources-jar/net/minidev/json/writer/BeansMapper.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/JSONStreamAware.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/writer/DefaultMapperCollection.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/JSONValue.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/writer/DefaultMapperOrdered.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/JSONStyle.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/parser/JSONParserBase.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/parser/JSONParserInputStream.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/writer/ArraysMapper.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/writer/FakeMapper.java
* /json-smart-2-4-11-sources-jar/net/minidev/json/writer/JsonReader.java
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```

```

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```

Found in path(s):

```

* /json-smart-2-4-11-sources-jar/net/minidev/json/writer/DefaultMapper.java
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```

```
<!--
```

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-->

Found in path(s):

* /json-smart-2-4-11-sources-jar/META-INF/maven/net.minidev/json-smart/pom.xml

1.152 jakartae-migration 1.0.7

1.152.1 Available under license :

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1.153 slf4j-impl 2.17.1

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1.155 slf4j-impl 1.7.21

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* /slf4j-log4j12-1-7-21-sources-jar/org/slf4j/impl/Log4jMDCAdapter.java

* /slf4j-log4j12-1-7-21-sources-jar/org/slf4j/impl/StaticMarkerBinder.java

* /slf4j-log4j12-1-7-21-sources-jar/org/slf4j/impl/StaticMDCBinder.java

* /slf4j-log4j12-1-7-21-sources-jar/org/slf4j/impl/StaticLoggerBinder.java

* /slf4j-log4j12-1-7-21-sources-jar/org/slf4j/impl/Log4jLoggerFactory.java

1.156 avro 1.11.2

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* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking

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* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas

*****/

Found

in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileConstants.java

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* Contributors:
*   IBM Corporation - initial API and implementation
*   IBM Corporation - Fix for bug 328575
*   het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
*****/

```

Found in path(s):

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundEnvImpl.java
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* Contributors:
*   IBM Corporation - initial API and implementation
*   Stephan Herrmann - Contributions for
*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*     Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute
*****/

```

Found

in path(s):

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TypeParameter.java
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 * Contributors:
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 * Stephan Herrmann - Contributions for
 * bug 186342 - [compiler][null] Using annotations for null checking
 * bug 367203 - [compiler][null] detect assigning null to nonnull argument
 * bug 365519 - editorial cleanup after bug 186342 and bug 365387
 * bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
 * bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
 * bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 * bug 388281 - [compiler][null] inheritance of null annotations as an option
 * bug 401030 - [1.8][null] Null analysis support for lambda methods.
 * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 * Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument
 annotations
 * Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
 * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 * Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
 * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize
 declaration style null annotations
 * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/AbstractMethodDeclaration.java
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 * Jesper S Moller - Contributions for
 * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
 * Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference
 expressions

- * Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
- * Stephan Herrmann - Contribution for
- * bug 402028 - [1.8][compiler] null analysis for reference expressions
- * bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- * Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
- * Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- * Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
- * Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
- * Bug 427438
- [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- * Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- * Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J involved
- * Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- * Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
- * Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
- * Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- * Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- * Bug 438945 - [1.8] NullPointerException
InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
- * Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- * Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
- * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ReferenceExpression.java

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 407191 - [1.8] Binary access support for type annotations

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationInfo.java

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* Stephan Herrmann - Contributions for

* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/AND_AND_Expression.java

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* BEA - Patch for bug 172743

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* Stephan Herrmann - Contributions for

* Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class

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* Stephan Herrmann - Contributions for

* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 265744 - Enum switch should warn about missing default

* bug 374605 - Unreasonable warning for enum-based switch statements

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SwitchStatement.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/GuardedPattern.java

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* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* bug 331649 - [compiler][null] consider null annotations for fields

* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer

* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

* Bug 458396 - NPE in CodeStream.invoke()

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

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Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FieldDeclaration.java

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*   Stephan Herrmann - Contribution for
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*       Bug 473178
*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathDirectory.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ContainerAnnotation.java
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- * Stephan Herrmann - Contributions for
- * bug 349326 - [1.7] new warning for missing try-with-resources
- * bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- * bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- * Bug 392099
- [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
- * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- * Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface
- * Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
- * Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- * Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards
- * Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
- * Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- * Bug 400874 - [1.8][compiler]
- Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- * Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized type due to bound(s) mismatch
- * Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
- * Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
- * Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
- * Bug 426792 - [1.8][inference][impl] generify new type inference engine
- * Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
- * Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
- * Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
- * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- * Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
- * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- * Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
- * Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
- * Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
- * Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 403147 - [compiler][null] FUP of bug 400761:
        consolidate interaction between unboxing, NPE, and deferred checking
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/CompilationResult.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathLocation.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java
*
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/AnnotationMethodDeclaration.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredElement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironment.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ICompilationUnit.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java

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*   Nikolay Metchev (nikolaymetchev@gmail.com) - Contributions for
*       bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
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*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 365519 - editorial cleanup after bug 186342 and bug 365387
*     bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*     bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*     bug 385626 - @NonNull fails across
loop boundaries
*     bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*     bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*     Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*     Bug 455723 - Nonnull argument not correctly inferred in loop
*   Jesper S Moller - Contributions for
*     bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/PackageExportImpl.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/OpensStatement.java

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* Stephan Herrmann - Contribution for

* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ComponentInfoWithTypeAnnotation.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TextBlock.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java

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*   wharley@bea.com - derived base class from BatchMessengerImpl
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- * Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for
- * bug 317046 - Exception during debugging when hover mouse over a field
- * bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- * bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
- * bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
- * Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- * Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
- * Bug 426792 - [1.8][inference][impl] generify new type inference engine
- * Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
- * Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
- * Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray(and asking for code completion
- * Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
- * Bug 435962 - [RC2] StackOverFlowError when building
- * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- * Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- * Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
- * Jesper S Moller <jesper@selskabet.org> - Contributions for
- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- *

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeBinding.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJmod.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AptSourceLocalVariableBinding.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/AbstractCommentParser.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java
*

/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/JavadocTagConstants.java

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* Stephan Herrmann - Contributions for

* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 370639 - [compiler][resource] restore the

default for resource leak warnings

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

* bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

* Bug 416267 - NPE in QualifiedAllocationExpression.resolveType

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 424415 - [1.8][compiler] Eventual

resolution of ReferenceExpression is not seen to be happening.

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Jesper S Moller <jesper@selskabet.org> - Contributions for

* bug 378674 - "The method can be declared as static" is wrong

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

* Till Brychcy - Contributions for

* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedAllocationExpression.java

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* Jesper S Moller - Contributions for

* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

* Bug 406973 - [compiler] Parse MethodParameters attribute

* Andy Clement - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/AttributeNamesConstants.java

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* Stephan Herrmann - Contribution for

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 383368 - [compiler][null] syntactic null analysis for field references

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/BinaryExpression.java

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* Contributors:
*   IBM Corporation - initial API and implementation
*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*     bug 185682 - Increment/decrement operators mark local variables as read
*     bug 331649 - [compiler][null] consider null annotations for fields
*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
*     Bug 400874 - [1.8][compiler]
* Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 458396 - NPE in CodeStream.invoke()
*   Jesper S Moller - Contributions for
*     Bug 378674 - "The method can be declared as static" is wrong
*   Robert Roth <robert.roth.off@gmail.com> - Contributions for
*     Bug 361039 - NPE in FieldReference.optimizedBooleanConstant
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FieldReference.java

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 407191 - [1.8] Binary access support for type annotations

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java

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* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment

* bug 186342 - [compiler][null] Using annotations for null checking

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*     Bug 186342 - [compiler][null] Using annotations for null checking
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug

415291 - [1.8][null] differentiate type incompatibilities due to null annotations

* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled

* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray

* Bug 426792 - [1.8][inference][impl] generify new type inference engine

* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.

* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable

* Bug 441693 -

[1.8][null] Bogus warning for type argument annotated with @NonNull

* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version

* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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*   wharley@bea.com - initial API and implementation
*                   (originally in org.eclipse.jdt.apt.core)
*   IBM Corporation - Bug 513790
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*   Jesper Steen Moeller - Contributions for:
*   Bug 407297: [1.8][compiler] Control generation of parameter names by option
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* Contributors:
*   tyeung@bea.com - initial API and implementation
*   olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
*****/

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Found in path(s):

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ClassSignature.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java
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*     bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*     Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop
with close in try/catch
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*   IBM Corporation - fix for 342598
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*   Stephan Herrmann - Contribution for
*     bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Jesper Steen Moller - Contributions for
*     Bug 412150 [1.8] [compiler]
*     Enable reflected parameter names during annotation processing
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*     bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*     Bug 417758 - [1.8][null] Null safety compromise during array creation.
*     Bug
427163 - [1.8][null] bogus error "Contradictory null specification" on varargs
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*       Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
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```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ArrayAllocationExpression.java

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*   wharley@bea.com - initial API and implementation
*   philippe.marschall@netcetera.ch - Fix for 338370
*   IBM Corporation - Fix for validating relative name
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchFileImpl.java

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* bug 331649 - [compiler][null] consider null annotations for fields

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 458396 - NPE in CodeStream.invoke()

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* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

* bug 401030 - [1.8][null] Null analysis support for lambda methods.

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

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in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/LocalTypeBinding.java

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`/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Pattern.java`

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/AnnotationValueImpl.java
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```
*       bug 349326 - [1.7] new warning for missing try-with-resources
```

```
*       bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
```

```
*       bug 358903 - Filter practically unimportant resource leak warnings
```

```
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
```

```
*       bug 370639 - [compiler][resource]
```

```
restore the default for resource leak warnings
```

```
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
```

```
*       bug 379784 - [compiler] "Method can be static" is not getting reported
```

```
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
```

```
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
```

```
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
```

```
*       Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
```

```
*       Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
```

```
*       Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream -
return inside for loop)
```

```
*       Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding
with try-catch
```

```
*       Jesper S Moller <jesper@selskabet.org> - Contributions for
```

```
*       bug 378674 - "The method can be declared as static" is wrong
```

```
*       Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends
the outer class
```

```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/BlockScope.java
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*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
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*   tyeung@bea.com - initial API and implementation
*   olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/GenericXMLWriter.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/core/JDTCompilerAdapter.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java
*
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/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredLocalVariable.java
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*       Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*   Stephan Herrmann - Contribution for
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 429958
*       - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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*       bug 292478 - Report potentially null across variable assignment
*       bug 332637 - Dead Code detection removing code that isn't dead
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*       Bug 421035 - [resource]
*       False alarm of resource leak warning when casting a closeable in its assignment
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 * bug 383368 - [compiler][null] syntactic null analysis for field references
 * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 * Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
 * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 * Bug 417295 - [1.8][null]
 * Message type annotated null analysis to gel well with deep encoded type bindings.
 * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 * Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
 * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
 * Andy Clement - Contributions for
 * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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* bug 185682 - Increment/decrement operators mark local variables as read

* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

* bug 331649 - [compiler][null] consider null annotations for fields

* bug 383368 - [compiler][null] syntactic null analysis for field references

* bug 392384 - [1.8][compiler][null] Restore nullness

info from type annotations in class files

- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
- * Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

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* Bug 378674 - "The method can be declared as static" is wrong

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* bug 331649 - [compiler][null] consider null annotations for fields

- * Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
- * Bug 447088 - [null] @Nullable on fully qualified field type is ignored
- * Bug 435805 - [1.8][compiler][null]

Java 8 compiler does not recognize declaration style null annotations

- * Bug 458396 - NPE in CodeStream.invoke()
- * Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
- * Till Brychcy - Contribution for
- * bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/IProcessorProvider.java
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* Stephan Herrmann - Contributions for
* Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
* Bug 388630 - @NonNull diagnostics at line 0
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 424727 - [compiler][null] NullPointerException
in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends
the outer class
* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
* Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
* Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException

*****/

Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TypeDeclaration.java
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* Contributors:

- * Walter Harley - initial API and implementation
- * IBM Corporation - fix for 342598, 382590
- * Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555

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Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/TypesImpl.java

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Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CharArrayCache.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java

*

/ecj-3-33-0-sources-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java

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* Contributors:

* IBM Corporation - initial API and implementation

* Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)

* Stephan Herrmann - Contributions for

* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

- * bug 349326 - [1.7] new warning for missing try-with-resources
- * bug 186342 - [compiler][null] Using annotations for null checking
- * bug 358903 - Filter practically unimportant resource leak warnings
- * bug
- 370639 - [compiler][resource] restore the default for resource leak warnings
- * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- * bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- * bug 379784 - [compiler] "Method can be static" is not getting reported
- * bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
- * bug 388281 - [compiler][null] inheritance of null annotations as an option
- * bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
- * bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- * bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
- * bug 331649 - [compiler][null] consider null annotations for fields
- * bug 383368 - [compiler][null] syntactic null
- analysis for field references
- * bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- * bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
- * bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
- * bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
- * bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- * Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
- * Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
- * Bug 417295 - [1.8][null] Massage type annotated null analysis
- to gel well with deep encoded type bindings.
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- * Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- * Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- * Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- * Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- * Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- * Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
- * Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- * Bug 427438 - [1.8][compiler]
- NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- * Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
- * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- * Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
- * Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief

- * Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
- * Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
- * Bug 470958 - [1.8] Unable to convert lambda
- * Bug 410218 - Optional warning

for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.

- * Jesper S Moller - Contributions for
- * Bug 378674 - "The method can be declared as static" is wrong
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- * Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

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- * Contributors:
- * IBM Corporation - initial API and implementation
- * Jesper S Moller - Contributions for
- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- * bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
- * Bug 416885 - [1.8][compiler] IncompatibleClassChange error (edit)
- * Stephan Herrmann - Contribution for
- * bug 401030 - [1.8][null] Null analysis support for lambda methods.
- * Bug 392099
- [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- * Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
- * Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
- * Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- * Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
- * Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
- * Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
- * Bug 426563 - [1.8] AIOOBE when method with error

invoked with lambda expression as argument

- * Bug 420525 - [1.8][compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is applicable here"
 - * Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 - * Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
 - * Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda compatibility constraint
 - * Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
 - * Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
 - * Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
 - * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
 - * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
 - * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
 - * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
 - * Bug 455723 - Nonnull argument not correctly inferred in loop
 - * Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
 - * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LambdaExpression.java

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- * Contributors:

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- * Jesper Steen Moller - Contributions for:
Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SingleMemberAnnotation.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceSubstitution.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationWalker.java
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*   Stephan Herrmann - Contributions for
*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 365519 - editorial cleanup after bug 186342 and bug 365387
*     bug 358903 - Filter practically unimportant resource leak warnings
*     bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*     bug 388281 - [compiler][null] inheritance of null annotations as an option
*     bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*     bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*     bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*     bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*     Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*     Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*     Bug

```

400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

- * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- * Bug 426792 - [1.8][inference][impl] generify new type inference engine
- * Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
- * Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
- * Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 431581 - Eclipse compiles what it should not
- * Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Bug 446442 - [1.8] merge null annotations from
super methods
- * Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error
messages
- * Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
- * Jesper S Moller - Contributions for
- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- * bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- * Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- * bug 386692 - Missing "unused" warning on "autowired" fields
- * Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
- * bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
- * Sebastian Zarnekow - Contributions
for
- * bug 544921 - [performance] Poor performance with large source files

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* IBM Corporation - Bug fixes

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* Stephan Herrmann - Contribution for

* bug 384380 - False positive on a "Potential null pointer access" after a continue

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

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- * Contributors:
- * IBM Corporation - initial API and implementation
- * Stephan Herrmann - Contributions for
- * bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
- * bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
- * bug 349326 - [1.7] new warning for missing try-with-resources
- * bug 186342 - [compiler][null] Using annotations for null checking
- * bug 358903 - Filter practically unimportant resource leak warnings
- * bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- * bug 370639 - [compiler][resource] restore the default for resource leak warnings
- * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- * bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- * bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- * Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 424727 - [compiler][null] NullPointerException in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
- * Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- * Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- * Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- * Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- * Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- * Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
- * Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
- * Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
- * Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- * Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- * Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
- * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- * Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
- * Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
- * Bug 434297 - [1.8] NPE in LambdaExpression.analyseCode with lambda expression nested in a conditional expression
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound

- * Jesper S Moller <jesper@selskabet.org> - Contributions for
- * bug 378674 - "The method can be declared as static" is wrong
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 383624 - [1.8][compiler] Revive
- code generation support for type annotations (from Olivier's work)
- * Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
- bridge method
- * Till Brychcy - Contributions for
- * bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
- * Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
- * Bug 473178

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithAnnotations.java

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* IBM Corporation - initial API and implementation

* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 185682 - Increment/decrement operators mark local variables as read

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

- * bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- * bug 331649 - [compiler][null] consider null annotations for fields
- * Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
- * Jesper S Møller <jesper@selskabet.org> - Contributions for
- * Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- *

*****/

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/LocalVariableBinding.java

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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Stephan Herrmann - Contribution for
*   Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
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- * Contributors:
- * IBM Corporation - initial API and implementation
- * Stephan Herrmann - Contributions for
- * bug 349326 - [1.7] new warning for missing try-with-resources
- * bug 358903 - Filter practically unimportant resource leak warnings
- * bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
- * bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
- * bug 382069 - [null] Make

the null analysis consider JUnit's assertNotNull similarly to assertions

- * Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
- * Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
- * Bug 425183 - [1.8][inference] make CaptureBinding18 safe
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- * Jesper S Moller - Contributions for
- * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- * Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * bug 527554 - [1.8.3] Compiler support for JEP 286 Local-Variable Type
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 405104 - [1.8][compiler][codegen]

Implement support for serializable lambdas

- * Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- * bug 386692 - Missing "unused" warning on "autowired" fields
- * Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
- * bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown

when using MethodSource

*****/

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*   Stephan Herrmann - Contribution for
*     Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
*     Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*****/

/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a
with a single binding, e.g:

@T Z;                type => Z  annotations => [[@T]]
  @T Y.@T Z          type => Z  annotations => [[@T][@T]]
  @T X.@T Y.@T Z     type => Z  annotations => [[@T][@T][@T]]
  java.lang.@T X.@T Y.@T Z     type => Z  annotations => [[[]][@T][@T][@T]]
  in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their
  layout for proper attribution.
*/

```

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*   IBM Corporation - initial API and implementation
*   Stephan Herrmann - Contribution for
*     Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the
method
*     Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*     Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*
    bug 407191 - [1.8] Binary access support for type annotations
*****/

```

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* Stephan Herrmann - Contributions for

* bug 332637 - Dead Code detection removing code that isn't dead

* bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6

* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/ConditionalFlowInfo.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java

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*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*   Stephan Herrmann - Contributions for
*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 370639 - [compiler][resource] restore the default for resource leak warnings
*****/
```

- * bug 265744 - Enum switch should warn about missing default
- * bug 374605 - Unreasonable warning for enum-based switch statements
- * bug 381443
- [compiler][null] Allow parameter widening from @NonNull to unannotated
- * Bug 441208 - [1.8][null] SuppressWarnings("null") does not suppress / marked Unnecessary
- * Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.

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* Stephan Herrmann - Contribution for

* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax

* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super

* bug 404728 - [1.8]NPE on QualifiedSuperReference error

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* Jesper S Moller - Contributions for

- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- * Stephan Herrmann - Contribution for
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 423504 - [1.8] Implement "18.5.3
Functional Interface Parameterization Inference"
- * Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
- * Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
- * Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
- * Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
- * Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- * Bug 446442 - [1.8] merge null annotations from super methods
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas

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* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SingleTypeReference.java

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* IBM Corporation - initial API and implementation

* Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm

* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions

* Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing

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* Stephan Herrmann - Contributions for

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed via BinaryTypeBinding

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedReferenceBinding.java

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*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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Found in path(s):

```

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocQualifiedTypeReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleTypeReference.java

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*     Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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```

Found in path(s):

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/VoidTypeBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/NullTypeBinding.java

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* IBM Corporation - fix for 342470

* IBM Corporation - fix for 342598

* IBM Corporation - Java 8 support

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* Stephan Herrmann - Contribution for

* bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code

* bug 391376 - [1.8] check interaction of default methods with bridge methods and generics

* bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtype

* Jesper S Moller - Contributions for

* Bug 405066 - [1.8][compiler][codegen] Implement

code generation infrastructure for JSR335

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array

* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code

generator

* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas

* Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class

* Olivier Tardieu (tardieu@us.ibm.com) - Contributions for

* Bug 442418 - \$deserializeLambda\$ off-by-one error when deserializing the captured arguments of a lambda that also capture this

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IGenericMethod.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/BinaryTypeFormatter.java

```

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*   IBM Corporation - fix for bug 342757
*   Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
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```

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithParameterAnnotations.java

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```

- * Perry James - nullStatus method improvement (165346)
- * Stephan Herrmann - Contribution for
- * bug 383368 - [compiler][null] syntactic null analysis for field references

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/OperatorExpression.java

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* Patrick Wienands <pwienands@abit.de> - Contribution for bug 393749

* Stephan Herrmann - Contribution for

* bug 331649 - [compiler][null] consider null annotations for fields

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchAnnotationProcessorManager.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ClassFilePool.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementImpl.java

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 * Contributors:
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 *   Stephan Herrmann - Contribution for
 *     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
 *     Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
 *     Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
 *     Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
 *     Bug 425783 - An
 * internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError
 *     Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
 *     Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
 */
```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/RawTypeBinding.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SortedCompoundNameVector.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/CtSym.java

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* Matt McCutchen - partial fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=122995

* Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411

* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 185682 - Increment/decrement operators mark local variables as read

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365519 - editorial cleanup after

bug 186342 and bug 365387

* bug 374605 - Unreasonable warning for enum-based switch statements

* bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation

* bug 393719 - [compiler] inconsistent warnings on iteration variables

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith

* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding

* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation

* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.

* Bug 426366

- [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context

* Bug 427282 - [1.8][compiler] AIOOB (-1) at

org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)

* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved

* Bug 428352 - [1.8][compiler] Resolution errors don't always surface

* Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varargs

* Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8

* Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables

* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference

- * Bug 446442 - [1.8] merge null annotations from super methods
- * Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
- * Jesper S Moller - Contributions for
- * bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
- * bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
- * bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
- * Till Brychcy - Contributions for
- * bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ASTNode.java

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* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/UnaryExpression.java

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* bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding

* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 416181 - [1.8][compiler][null] Invalid assignment

is not rejected by the compiler

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

* Bug 434600 - Incorrect null analysis error reporting on type parameters

* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>

* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

* Andy Clement - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedQualifiedTypeReference.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IRecordComponent.java
```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ReferenceBindingSetWrapper.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/BasicModule.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ModuleReferenceImpl.java
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*   Genady Beriozkin - added support for reporting assignment with no effect
*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*     bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
*     bug 292478 - Report potentially null across variable assignment
*     bug 335093 - [compiler][null] minimal hook for future null annotation support
*     bug 349326 - [1.7] new warning for missing
try-with-resources
*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 358903 - Filter practically unimportant resource leak warnings
*     bug 370639 - [compiler][resource] restore the default for resource leak warnings
*     bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*     bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*     bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*     bug 331649 - [compiler][null] consider null annotations for fields
*     bug 383368 - [compiler][null] syntactic null analysis for field references

```

- * bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
- * bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- * Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Assignment.java

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- * Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 407191 - [1.8] Binary access support for type annotations

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* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource

* bug 358903 - Filter practically unimportant resource leak warnings

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 400874 - [1.8][compiler] Inference infrastructure

should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"

* Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression

* Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type

* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.

* Bug 435962 - [RC2] StackOverflowError when building

* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable

* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

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 * bug 186342 - [compiler][null] Using annotations for null checking
 * bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
 * bug 331649 - [compiler][null] consider null annotations for fields
 * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 * Bug 415043 - [1.8][null] Follow-up re null type annotations
 after bug 392099
 * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 * Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
 * Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
 * Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
 * Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
 * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
 * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
 * Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
 * Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
 * Andy Clement (GoPivotal,
 Inc) aclement@gopivotal.com - Contributions for
 * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
 work)
 * Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
 * Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
 * Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
 * Jesper S Moller <jesper@selskabet.org> - Contributions for
 * Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
 * Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
 * Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
 * Bug 419209 - [1.8] Repeating container annotations
 should be rejected in the presence of annotation it contains
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* Jesper S Moller -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
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* bug 365519 - editorial cleanup after bug 186342 and bug 365387

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 435570 - [1.8][null] @NonNullByDefault

illegally tries to affect "throws E"

- * Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
- * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly

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*/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceFailureException.java

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* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 383368 - [compiler][null] syntactic null analysis for field references

* bug 402993 - [null] Follow up
of bug 401088: Missing warning about redundant null check
* Bug 440282 - [resource] Resource leak detection false negative with empty finally block
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* bug 332637 - Dead Code detection removing code that isn't dead

* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points

* bug 358903 - Filter practically unimportant resource

leak warnings

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

* bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement

* bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try

* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

* bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue

* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch

* Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop

* Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream -
return inside for loop)

* Jesper Steen Moller -

Contributions for

* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*

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* IBM Corporation - fix for 342936

* Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ

* Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ

* Dennis Hendriks - fix for bug 574449.

* Frits Jalvingh - fix for bug 533830.

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PackageVisibilityStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java
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*   Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java
- *
- /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredPackageVisibilityStatement.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ModuleStatement.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredOpensStatement.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredTypeReference.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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 * bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
 * bug 292478 - Report potentially null across variable assignment
 * bug 335093 - [compiler][null] minimal hook for future null annotation support
 * bug 349326 - [1.7] new warning for missing try-with-resources
 * bug 186342 - [compiler][null] Using annotations for null checking
 * bug 358903 - Filter practically unimportant resource leak warnings
 * bug 370639 - [compiler][resource] restore the default for resource leak warnings
 * bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
 * bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
 * bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
 * bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
 * bug 383368 - [compiler][null] syntactic null analysis for field references
 * bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
 * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 * Bug 427438 - [1.8][compiler] NPE at
 org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 * Bug 430150 - [1.8][null] stricter checking against type variables
 * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
 * Jesper S Moller - Contributions for
 * Bug 378674 - "The method can be declared as static" is wrong
 * Bug 527554 - [1.8.3] Compiler support for JEP 286 Local-Variable Type
 * Bug 529556 - [1.8.3] Add content assist support for 'var' as a type
 * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
 * Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
 * Bug 426616 - [1.8][compiler] Type Annotations, multiple problems
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationBinding.java

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org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

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- * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- * Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)

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mark local variables as read
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*     bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs
*     bug 368546 - [compiler][resource] Avoid remaining false positives found when
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*     bug 370930 - NonNull annotation not considered for enhanced for loops
*     bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*     bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*     bug 331649 - [compiler][null] consider null annotations for fields
*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*     Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*     Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*     Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*     Bug 417758 - [1.8][null] Null safety compromise

```


during array creation.

- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- * Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
- * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- * Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- * Bug 455723 - Nonnull argument not correctly inferred in loop
- * Andy Clement - Contributions for
 - * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
 - * Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Statement.java

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* Jesper S Moller - Contributions for

* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile

* Bug 416885 - [1.8][compiler] IncompatibleClassChange error (edit)

* Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com

- Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator

* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly

* Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped

* Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator

* Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing

- * Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
- * Bug 434556 - Broken class file generated for incorrect annotation usage
- * Bug 442416
- \$deserializeLambda\$ missing cases for nested lambdas
- * Stephan Herrmann - Contribution for
- * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- * Olivier Tardieu tardieu@us.ibm.com - Contributions for
- * Bug 442416 - \$deserializeLambda\$ missing cases for nested lambdas

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ClassFile.java

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- * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

- * Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/MultiCatchExceptionLabel.java
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* Stephan Herrmann - Contributions for

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 367203 - [compiler][null] detect assigning null to nonnull argument

* bug 365519 - editorial cleanup after bug 186342 and bug 365387

* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

* bug 365531 - [compiler][null] investigate alternative strategy for internally

encoding nullness defaults

* bug 388281 - [compiler][null] inheritance of null annotations as an option

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.

* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location

* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable

* Bug 443347 - [1.8][null]

@NonNullByDefault should not affect constructor arguments of an anonymous instantiation

* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

* Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'

* Bug 471611 - Error on hover on call to generic method with null annotation

* Jesper Steen Moller - Contributions for

* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing

*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MethodBinding.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJrt.java

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* Till Brychcy - Contributions for

* Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning

*****/

Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NullAnnotationMatching.java

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* Stephan Herrmann - Contribution for

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 370930 - NonNull annotation not considered for enhanced for loops

* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 393719 - [compiler] inconsistent warnings

on iteration variables

- * Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- * Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
- * Jesper S Moller - Contribution for
- * bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
- * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ForEachStatement.java

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- * Jesper S Moller - Contributions for

- * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/Opcodes.java

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- * Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

* Bug 473178

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* Stephan Herrmann - Contributions for

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 358903 - Filter practically unimportant resource leak warnings

* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account

* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions

* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.

* Jesper S Moller <jesper@selskabet.org> - Contributions for

* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable

* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for

* bug 386692 - Missing "unused" warning on "autowired" fields

* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for

* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource

*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeIds.java

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*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*     Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard
*     Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker
    hint from applicability analysis
*     Bug 456924 - StackOverflowError during compilation
*     Bug 462790 - [null] NPE in Expression.computeConversion()
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*     Bug 527554 - [1.8.3] Compiler support for JEP 286 Local-Variable Type
*****/

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Found in path(s):

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/CaptureBinding.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/DoubleLiteral.java
*
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java

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*       Bug 473178
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*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*     bug 325755 - [compiler] wrong initialization state after conditional expression
*     bug 320170 - [compiler] [null] Whitebox issues in null analysis
*     bug 292478 - Report potentially null across variable assignment
*     bug 332637 - Dead Code detection removing code that isn't dead
*     bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
*     bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*     Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*     Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
*     Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/UnconditionalFlowInfo.java

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*     Bug 458396 - NPE in CodeStream.invoke()
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*   Walter Harley - Patch for ensuring the parent folders are created
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* Contributors:
*   tyeung@bea.com - initial API and implementation
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations
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- * Contributors:
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- * IBM Corporation - added the following constants
- * NonStaticAccessToStaticField
- * NonStaticAccessToStaticMethod
- * Task
- * ExpressionShouldBeAVariable
- * AssignmentHasNoEffect
- * IBM Corporation - added the following constants
- * TooManySyntheticArgumentSlots
- * TooManyArrayDimensions
- * TooManyBytesForStringConstant
- * TooManyMethods
- * TooManyFields
- * NonBlankFinalLocalAssignment
- * ObjectCannotHaveSuperTypes
- * MissingSemiColon
- * InvalidParenthesizedExpression
- * EnclosingInstanceInConstructorCall
- * BytecodeExceeds64KLimitForConstructor
- * IncompatibleReturnTypeForNonInheritedInterfaceMethod
- * UnusedPrivateMethod
- * UnusedPrivateConstructor
- * UnusedPrivateType
- * UnusedPrivateField
- * IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
- * InvalidExplicitConstructorCall
- * IBM Corporation - added the following constants
- * PossibleAccidentalBooleanAssignment
- * SuperfluousSemicolon
- * IndirectAccessToStaticField
- * IndirectAccessToStaticMethod
- * IndirectAccessToStaticType
- * BooleanMethodThrowingException
- * UnnecessaryCast
- * UnnecessaryArgumentCast
- * UnnecessaryInstanceOf
- *
- FinallyMustCompleteNormally
- * UnusedMethodDeclaredThrownException
- * UnusedConstructorDeclaredThrownException
- * InvalidCatchBlockSequence
- * UnqualifiedFieldAccess

- * IBM Corporation - added the following constants
 - * Javadoc
 - * JavadocUnexpectedTag
 - * JavadocMissingParamTag
 - * JavadocMissingParamName
 - * JavadocDuplicateParamName
 - * JavadocInvalidParamName
 - * JavadocMissingReturnTag
 - * JavadocDuplicateReturnTag
 - * JavadocMissingThrowsTag
 - * JavadocMissingThrowsClassName
 - * JavadocInvalidThrowsClass
 - * JavadocDuplicateThrowsClassName
 - * JavadocInvalidThrowsClassName
 - * JavadocMissingSeeReference
 - * JavadocInvalidSeeReference
 - * JavadocInvalidSeeHref
 - * JavadocInvalidSeeArgs
 - * JavadocMissing
 - * JavadocInvalidTag
 - * JavadocMessagePrefix
 - * EmptyControlFlowStatement
- * IBM Corporation - added the following constants
 - * IllegalUsageOfQualifiedTypeReference
 - * InvalidDigit
- * IBM Corporation - added the following constants
 - * ParameterAssignment
 - * FallthroughCase
- * IBM Corporation - added the following constants
 - * UnusedLabel
 - * UnnecessaryNLSTag
 - * LocalVariableMayBeNull
 - * EnumConstantsCannotBeSurroundedByParenthesis
 - * JavadocMissingIdentifier
 - * JavadocNonStaticTypeFromStaticInvocation
 - * RawTypeReference
 - * NoAdditionalBoundAfterTypeVariable
 - * UnsafeGenericArrayForVarargs
 - * IllegalAccessFromTypeVariable
 - * AnnotationValueMustBeArrayInitializer
 - * InvalidEncoding
 - * CannotReadSource
 - * EnumStaticFieldInInInitializerContext
 - * ExternalProblemNotFixable
 - * ExternalProblemFixable
- * IBM Corporation - added the following constants
 - * AnnotationValueMustBeAnEnumConstant

- * OverridingMethodWithoutSuperInvocation
- * MethodMustOverrideOrImplement
- * TypeHidingTypeParameterFromType
- * TypeHidingTypeParameterFromMethod
- * TypeHidingType
- * IBM Corporation - added the following constants
 - * NullLocalVariableReference
 - * PotentialNullLocalVariableReference
 - * RedundantNullCheckOnNullLocalVariable
 - * NullLocalVariableComparisonYieldsFalse
 - * RedundantLocalVariableNullAssignment
 - * NullLocalVariableInstanceofYieldsFalse
 - * RedundantNullCheckOnNonNullLocalVariable
 - * NonNullLocalVariableComparisonYieldsFalse
- * IBM Corporation - added the following constants
 - * InvalidUsageOfTypeParametersForAnnotationDeclaration
 - * InvalidUsageOfTypeParametersForEnumDeclaration
- * IBM Corporation - added the following constants
 - * RedundantSuperinterface
- * Benjamin Muskalla - added the following constants
 - * MissingSynchronizedModifierInInheritedMethod
- * Stephan Herrmann - added the following constants
 - * UnusedObjectAllocation
 - * PotentiallyUnclosedCloseable
 - * PotentiallyUnclosedCloseableAtExit
 - * UnclosedCloseable
 - * UnclosedCloseableAtExit
 - * ExplicitlyClosedAutoCloseable
 - * RequiredNonNullButProvidedNull
 - * RequiredNonNullButProvidedPotentialNull
 - * RequiredNonNullButProvidedUnknown
 - * NullAnnotationNameMustBeQualified
 - * IllegalReturnNullityRedefinition
 - * IllegalRedefinitionToNonNullParameter
 - * IllegalDefinitionToNonNullParameter
 - * ParameterLackingNonNullAnnotation
 - * ParameterLackingNullableAnnotation
 - * PotentialNullMessageSendReference
 - * RedundantNullCheckOnNonNullMessageSend
 - * CannotImplementIncompatibleNullness
 - * RedundantNullAnnotation
 - * RedundantNullDefaultAnnotation
 - * RedundantNullDefaultAnnotationPackage
 - * RedundantNullDefaultAnnotationType
 - * RedundantNullDefaultAnnotationMethod
 - * ContradictoryNullAnnotations
 - * IllegalAnnotationForBaseType
 - * RedundantNullCheckOnSpecdNonNullLocalVariable

- * SpecdNonNullLocalVariableComparisonYieldsFalse
- * RequiredNonNullButProvidedSpecdNullable
- * MissingDefaultCase
- * MissingEnumConstantCaseDespiteDefault
- * UninitializedLocalVariableHintMissingDefault
- * UninitializedBlankFinalFieldHintMissingDefault
- * ShouldReturnValueHintMissingDefault
- * IllegalModifierForInterfaceDefaultMethod
- * InheritedDefaultMethodConflictsWithOtherInherited
- * ConflictingNullAnnotations
- * ConflictingInheritedNullAnnotations
- * UnsafeElementTypeConversion
- * ArrayReferencePotentialNullReference
- * DereferencingNullableExpression
- * NullityMismatchingTypeAnnotation
- * NullityMismatchingTypeAnnotationSuperHint
- * NullityUncheckedTypeAnnotationDetail
- * NullityUncheckedTypeAnnotationDetailSuperHint
- * NullableFieldReference
- * UninitializedNonNullField
- * UninitializedNonNullFieldHintMissingDefault
- * NonNullMessageSendComparisonYieldsFalse
- * RedundantNullCheckOnNonNullSpecdField
- * NonNullSpecdFieldComparisonYieldsFalse
- * NonNullExpressionComparisonYieldsFalse
- * RedundantNullCheckOnNonNullExpression
- * ReferenceExpressionParameterNullityMismatch
- * ReferenceExpressionParameterNullityUnchecked
- * ReferenceExpressionReturnNullRedef
- * ReferenceExpressionReturnNullRedefUnchecked
- * DuplicateInheritedDefaultMethods
- * SuperAccessCannotBypassDirectSuper
- * SuperCallCannotBypassOverride
- * ConflictingNullAnnotations
- * ConflictingInheritedNullAnnotations
- * UnsafeElementTypeConversion
- * PotentialNullUnboxing
- * NullUnboxing
- * NullExpressionReference
- * PotentialNullExpressionReference
- * RedundantNullCheckAgainstNonNullType
- * NullAnnotationUnsupportedLocation
- * NullAnnotationUnsupportedLocationAtType
- * NullityMismatchTypeArgument
- * ContradictoryNullAnnotationsOnBound
- * UnsafeNullnessCast
- * ContradictoryNullAnnotationsInferred
- * NonNullDefaultDetailIsNotEvaluated

- * NullNotCompatibleToFreeTypeVariable
- * NullityMismatchAgainstFreeTypeVariable
- * ImplicitObjectBoundNoNullDefault
- * IllegalParameterNullityRedefinition
- * ContradictoryNullAnnotationsInferredFunctionType
- * IllegalReturnNullityRedefinitionFreeTypeVariable
- * UnlikelyCollectionMethodArgumentType
- * UnlikelyEqualsArgumentType
- * Jesper S Moller - added the following constants
- * TargetTypeNotAFunctionalInterface
- * OuterLocalMustBeEffectivelyFinal
- * IllegalModifiersForPackage
- * DuplicateAnnotationNotMarkedRepeatable
- * DisallowedTargetForContainerAnnotation
- * RepeatedAnnotationWithContainerAnnotation
- * ContainingAnnotationMustHaveValue
- * ContainingAnnotationHasNonDefaultMembers
- * ContainingAnnotationHasWrongValueType
- * ContainingAnnotationHasShorterRetention
- * RepeatableAnnotationHasTargets
- * RepeatableAnnotationTargetMismatch
- * RepeatableAnnotationIsDocumented
- * RepeatableAnnotationIsInherited
- * RepeatableAnnotationWithRepeatingContainerAnnotation
- * VarLocalMultipleDeclarators
- * VarLocalCannotBeArray
- * VarLocalReferencesItself
- * VarLocalWithoutInitializer
- * VarLocalInitializedToNull
- * VarLocalCannotBeArrayInitializers
- * VarLocalCannotBeLambda
- * VarLocalCannotBeMethodReference
- * VarIsReserved
- * VarIsReservedInFuture
- * VarIsNotAllowedHere

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/core/compiler/IProblem.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ExternalAnnotationSuperimposer.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SwitchExpression.java
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Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/FileFinder.java
*

```

/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java

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* Stefan Xenos <sxenos@gmail.com> (Google) - initial API and implementation

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ExternalAnnotationDecorator.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathSourceJar.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AptBinaryLocalVariableBinding.java

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* Contributors:

* Kenneth Olson - initial API and implementation

* Dennis Hendriks - initial API and implementation

* IBM Corporation - Contribution for bug 188796

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJsr199.java

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* Contributors:

* IBM Corporation - initial API and implementation

* Stephan Herrmann - Contributions for

* bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding

* Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)

* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 415043 - [1.8][null] Follow-up re null type

annotations after bug 392099

- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 434600 - Incorrect null analysis error reporting on type parameters
- * Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- * Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
- * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- * Andy Clement - Contributions for
- * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

*****/

Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedSingleTypeReference.java

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* Contributors:

* IBM Corporation - initial API and implementation

* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* Bug 328281 - visibility leaks not detected when analyzing unused field in private class

* Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries

* Bug 354536 - compiling package-info.java still depends on the order of compilation units

* Bug 349326 - [1.7] new warning for missing try-with-resources

* Bug

358903 - Filter practically unimportant resource leak warnings

* Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class

* Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class

* Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens

"sometimes"

* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com -

Contributions for

* Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes

* het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type

* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

* Bug 473178

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Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ClassScope.java

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* bug 186342 - [compiler][null] Using annotations for null checking

* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* bug 388281 - [compiler][null] inheritance of null annotations as an option

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

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in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TagBits.java

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 328281 - visibility leaks not detected when analyzing unused field in private class

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

- * bug 365836 - [compiler][null] Incomplete propagation of null defaults.
- * bug 365519 - editorial cleanup after bug 186342

and bug 365387

- * bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
- * bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
- * bug 366063 - Compiler should not add synthetic @NonNull annotations
- * bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
- * bug 386356 - Type mismatch error with annotations and generics
- * bug 388281 - [compiler][null] inheritance of null annotations as an option
- * bug 331649 - [compiler][null] consider null annotations for fields
- * bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
- * bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- * Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- * Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
- * Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- * Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
- * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- * Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- * Bug 441693 - [1.8][null]

Bogus warning for type argument annotated with @NonNull

- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
- * Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
- * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- * Jesper S Moller <jesper@selskabet.org> - Contributions for
- * Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * Till Brychcy - Contributions for
- * bug 415269 - NonNullByDefault is not always inherited to nested classes
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
- * Sebastian Zarnekow - Contributions

for

- * bug 544921 - [performance] Poor performance with large source files

*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeBinding.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ModuleFinder.java

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* wharley@bea.com - initial API and implementation

* IBM Corporation - fix for 342598

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BaseProcessingEnvImpl.java

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveryScannerData.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/RequiresStatement.java

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- * Stephan Herrmann - Contribution for bug 295551
- * Jesper S Moller - Contributions for
- * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- * Frits Jalvingh - contributions for bug 533830.
- * Red Hat Inc. - add module-info Javadoc support

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CompilationUnitDeclaration.java

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/RecordComponentElementImpl.java

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- * Contributors:
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- * Stephan Herrmann - Contribution for
- * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- * bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
- * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- * Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment

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in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/ExceptionHandlingFlowContext.java

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* Contributors:

* IBM Corporation - initial API and implementation

* Stephan Herrmann - Contributions for

* bug 292478 - Report potentially null across variable assignment

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

* bug 331649 - [compiler][null] consider null annotations for fields

* bug 383368 - [compiler][null] syntactic null analysis for field

references

* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 426792 - [1.8][inference][impl] generify new type inference engine

* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Bug 426996 - [1.8][inference]

try to avoid method Expression.unresolve()?

* Bug 428274 - [1.8] [compiler] Cannot cast from Number to double

* Bug 428352 - [1.8][compiler] Resolution errors don't always surface

* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

* Bug 473178

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Expression.java

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* IBM Corporation - fix for 342598

* IBM Corporation - Java 8 support

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ImportReference.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceType.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java

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*   IBM Corporation - initial API and implementation
*   Christoph Läubrich - use Filesystem helper method
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJep247.java
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*   Benjamin Muskalla - Contribution for bug 239066
*   Stephan Herrmann - Contributions for

```

- * bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
- * bug 295551 - Add option to automatically promote all warnings to errors
- * bug 349326 - [1.7] new warning for missing try-with-resources
- * bug 186342 - [compiler][null] Using annotations for null checking
- * bug
- 370639 - [compiler][resource] restore the default for resource leak warnings
- * bug 366063 - Compiler should not add synthetic @NonNull annotations
- * bug 374605 - Unreasonable warning for enum-based switch statements
- * bug 388281 - [compiler][null] inheritance of null annotations as an option
- * bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
- * bug 383368 - [compiler][null] syntactic null analysis for field references
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- * Jesper Steen Moller - Contributions for
- * bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
- * bug 407297 - [1.8][compiler] Control generation of parameter names by option

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array

* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references

*

Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/TypeAnnotationCodeStream.java

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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations
*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryField.java

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*   Benjamin Muskalla - Contribution for bug 239066
*   Stephan Herrmann - Contribution for
*   bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*   bug 388954 - [1.8][compiler] detect default methods in class files
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs
to be declared abstract
*   bug 390883 - [1.8][compiler] Unable to override default method
*   bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*   bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*   bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
*   bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*   Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier.java

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* tyeung@bea.com - initial API and implementation

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfo.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithAnnotations.java

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* Stephan Herrmann - Contributions for

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 417295 - [1.8][null] Massage type annotated

null analysis to gel well with deep encoded type bindings.

* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedMethodBinding.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/ShouldNotImplement.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedFieldBinding.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java

*

/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CaseLabel.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IDependent.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceImport.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/IntegerCache.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilation.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/OperatorIds.java

*

/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortType.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/DoubleCache.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToInt.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/StringLiteralConcatenation.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ICompilerRequestor.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java

*

/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortMethod.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocReturnStatement.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/Label.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/IProblemFactory.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/LongCache.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredImport.java

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*
/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/MagicLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToIntArray.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfType.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java
*
/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleSet.java
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*   Stephan Herrmann - Contribution for
*     bug 331649 - [compiler][null] consider null annotations for fields
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*   Jesper S Moller - Contributions for
*     bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*****/

```

Found in path(s):

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- * bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
- * bug 186342 - [compiler][null] Using annotations for null checking
- * bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
- * bug 370639 - [compiler][resource] restore the default for resource leak warnings
- * bug 388996 - [compiler][resource] Incorrect
- 'potential resource leak'
- * bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 424710 - [1.8][compiler] CCE in SimpleNameReference.localVariableBinding
- * Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- * Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- * Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- * Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- * Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
- * Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- * Bug 427438 - [1.8][compiler]
- NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/BinaryModuleBinding.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SplitPackageBinding.java

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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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* Stephan Herrmann - Contributions for

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 387612 - Unreachable catch block...exception is never thrown from the try

* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* bug 401456 - Code compiles from javac/intellij, but fails from eclipse

* bug 401271 - StackOverflowError

when searching for a methods references

* bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic

* Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the interface type as the last parameter

* Bug 413958 - Function override returning inherited Generic Type

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations

* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding

* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation

* Bug 424415 - [1.8][compiler]

Eventual resolution of ReferenceExpression is not seen to be happening.

* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context

* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?

* Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument

* Bug 426590 - [1.8][compiler] Compiler error with ternary operator

* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler

* Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments (java.lang.Class, java.lang.String)

* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"

* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method

* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved

* Bug

427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing

* Bug 427218 - [1.8][compiler] Verify error varargs + inference

* Bug 426836 - [1.8] special handling for return type in references to method getClass()?

* Bug 427628 - [1.8] regression : The method * is ambiguous for the type *

* Bug 428352 - [1.8][compiler] Resolution errors don't always surface

- * Bug 428366 - [1.8][compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
- * Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
- * Bug 428811 - [1.8][compiler] Type witness unnecessarily required
- * Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
- * Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- * Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- * Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
- * Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
- * Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
- * Jesper S Moller - Contributions for
- * Bug 378674 - "The method can be declared as static" is wrong
- * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- * Andy Clement (GoPivotal, Inc)
aclement@gopivotal.com - Contributions for
- * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
- * Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
- * Bug 559618 - No compiler warning for import from same package
- * Bug 560630 - No warning on unused import on class from same package

*****/

Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/Scope.java

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* Stephan Herrmann - Contribution for

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/SwitchFlowContext.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java

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* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

* Bug 473178

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintFormula.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExceptionFormula.java

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* Bug 440474 - [null] textual encoding of external null annotations

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* Stephan Herrmann - Contribution for
* bug 383368 - [compiler][null] syntactic null analysis for field references

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NullLiteral.java

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* Stephan Herrmann - Contributions for
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 364890 - BinaryTypeBinding should use char constants from Util
* bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
* bug 358903 - Filter practically unimportant resource leak warnings
* bug
365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* bug 388800 - [1.8][compiler] detect default methods in class files
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 392245 - [1.8][compiler][null] Define whether

/ how @NonNullByDefault applies to TYPE_USE locations

- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
- * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- * Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
- * Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
- * Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
- * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
- * Bug 454182 - Internal compiler error when using

1.8 compliance for simple project

- * Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
- * Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning
- * Jesper Steen Moller - Contributions for
- * Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
- * Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * Sebastian Zarnekow - Contributions for
- * bug 544921 - [performance] Poor performance with large source files
- * Alexander Lehmann - Contributions for
- * bug 566258 - Intermittent NPE in APT RoundDispatcher

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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/UnionTypeReference.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/Substitution.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java

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* Stephan Herrmann - Contribution for bug 349326 - [1.7] new warning for missing try-with-resources

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/EmptyStatement.java

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* Stephan Herrmann - Contribution for

* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations

* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis

* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief

* Till Brychcy - Contribution for

* Bug 473713

- [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1

*****/

/* Cache the derived type, tagging it as a derivative of both the key type and the naked type.

E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not needed for correctness, but for annotated object reuse. We provide two alternate ways to annotate a type:

Taking parameterized types as an example, a call to getParamaterizedType can be made with annotations to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as the key, in the latter with List<String> as the key.

Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these alternate code paths. Unless care is exercised, we will end up with duplicate objects (that share the same TypeBinding.id => correctness is not an issue, but memory wastage is)

*/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeSystem.java

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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/ExceptionLabel.java

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* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking

* Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 407191 - [1.8] Binary access support for type annotations

*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfo.java

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*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ArrayQualifiedTypeReference.java
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*   Jesper S Moller - Contributions for
*     bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   Stephan Herrmann - Contribution for
*     bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 416182 - [1.8][compiler][null]
*     Contradictory null annotations not rejected
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemReasons.java
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- * bug 407191 - [1.8] Binary access support for type annotations
- * Stephan Herrmann - Contribution for
- * Bug 440474 - [null] textual encoding of external null annotations

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- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith

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 - * bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 - * bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
 - * bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
 - * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
 - * Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
 - * Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
 - * Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varargs
 - * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
 - * Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
 - * Bug 434600 - Incorrect null analysis error reporting on type parameters
 - * Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
 - * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
 - * Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
 - * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
 - * Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
 - * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
 - * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
 - * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
 - * Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
 - * Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
 - * Jesper S Møller <jesper@selskabet.org> - Contributions for
 - * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
 - * bug 529556 - [18.3] Add content assist support for 'var' as a type

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*   Stephan Herrmann - Contributions for
*     bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*     bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
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*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 365519 - editorial cleanup after bug 186342 and bug 365387
*     bug 388281 - [compiler][null] inheritance of null annotations as an option
*     bug 388795 - [compiler] detection of name clash depends on order of super interfaces
*     bug 388739 - [1.8][compiler] consider default methods when detecting whether
a class needs to be declared abstract
*     bug 390883 - [1.8][compiler] Unable to override default method
*     bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*     bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
*     bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*     bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
*     bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*     bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*     bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*     Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*     Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
*     Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*     Bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in
@NonNullByDefault
*     Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

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* Bug 446442 - [1.8] merge null annotations from super methods

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* Tom Tromey - Contribution for bug 125961

* Tom Tromey - Contribution for bug 159641

* Benjamin Muskalla - Contribution for bug 239066

* Stephan Herrmann - Contributions for

* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used

* bug 295551 - Add option to automatically promote all warnings to errors

* bug 359721 - [options] add command line option

for new warning token "resource"

* bug 365208 - [compiler][batch] command line options for annotation based null analysis

* bug 374605 - Unreasonable warning for enum-based switch statements

* bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set

* bug 388281 - [compiler][null] inheritance of null annotations as an option

* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated

* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

* Bug 440687 - [compiler][batch][null] improve command line option for external annotations

* Bug 408815 - [batch][null] Add CLI option for

COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS

* Jesper S Moller - Contributions for

* bug 407297 - [1.8][compiler] Control generation of parameter names by option

* Mat Booth - Contribution for bug 405176

* Frits Jalvingh -

fix for bug 533830.

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* Stephan Herrmann - Contributions for

* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

* bug 345305 - [compiler][null]

Compiler misidentifies a case of "variable can only be null"

* bug 383368 - [compiler][null] syntactic null analysis for field references

* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

* Bug 455723 - Nonnull argument not correctly inferred in loop

* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch

* Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Literal.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NormalAnnotation.java
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ArrayReference.java
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* Christoph Läubrich - use Filesystem helper method

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* Stephan Herrmann - Contributions for

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 374605 - Unreasonable warning for enum-based switch statements

* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.

* bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier

* bug 401030 - [1.8][null] Null analysis support for lambda methods.

* Bug

416176 - [1.8][compiler][null] null type annotations cause grief on type variables

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

* Jesper S Moller - Contributions for

* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

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* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax

* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super

* Jesper S Moller <jesper@selskabet.org> - Contributions for

* bug 378674 - "The method can be declared as static" is wrong

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedThisReference.java

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* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365519 - editorial cleanup after bug 186342 and bug 365387

* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

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* Frits Jalvingh - fix for bug 533830.

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- * Stephan Herrmann - Contributions for
 - * bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
 - * bug 349326 - [1.7] new warning for missing try-with-resources
 - * bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
 - * bug 186342 - [compiler][null] Using annotations for null checking
 - * bug 365835 - [compiler][null] inconsistent error reporting.
 - * bug 365519 - editorial cleanup after bug 186342 and bug 365387
 - * bug 358903 - Filter practically unimportant resource leak warnings
 - * bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
 - * bug 370639 - [compiler][resource] restore the default for resource leak warnings
 - * bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
 - * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
 - * bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
 - * bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
 - * bug 383368 - [compiler][null] syntactic null analysis for field references
 - * bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
 - * bug 401030 - [1.8][null] Null analysis support for lambda methods.
 - * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 - * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
 - * Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
 - * Bug 417758 - [1.8][null] Null safety compromise during array creation.
 - * Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 - * Bug 430150 - [1.8][null] stricter checking against type variables
 - * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
 - * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
 - * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
 - * Bug 455723 - Nonnull argument not correctly inferred in loop
 - * Jesper S Moller - Contributions for
 - * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 328281 - visibility leaks not detected when analyzing unused field in private class

* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.

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* Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing

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* Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)

* Stephan Herrmann - Contributions for

* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* bug

383368 - [compiler][null] syntactic null analysis for field references

* bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning

* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Bug 430150 - [1.8][null] stricter checking against type variables

* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style

null annotations

* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped

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 * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/IntConstant.java
 * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java
 * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/CharConstant.java
 *
 * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
 * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java
 * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java
 * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/BooleanConstant.java
 * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
 * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
 * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ByteConstant.java
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*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*     Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
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*   Stephan Herrmann - contributions for
*       bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 365859 - [compiler][null]
*       distinguish warnings based on flow analysis vs. null annotations
*       bug 385626 - @NonNull fails across loop boundaries
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 376263 - Bogus "Potential null pointer access" warning
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       bug 406384 - Internal error with I20130413
*       Bug 415413 - [compiler][null] NullPointerException in Null Analysis caused by interaction of
LoopingFlowContext and FinallyFlowContext
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
*       Bug 421035 - [resource]
False alarm of resource leak warning when casting a closeable in its assignment
*   Jesper S Moller - contributions for
*       bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
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*   Jesper S Moller - Bug 392671
*   NPE with a method with explicit this and a following incomplete parameter
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*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
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- * Bug 428811 - [1.8][compiler] Type witness unnecessarily required

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- * Frits Jalvingh - fix for bug 533830.

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- * IBM Corporation - initial API and implementation
- * Jesper S Moller - Contributions for

- * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- * Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
- * Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
- * Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
- Contributions for
- * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
- * Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException: "Invalid lambda deserialization"

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* Stephan Herrmann - Contributions for

* bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor

* bug 368546 - [compiler][resource] Avoid

remaining false positives found when compiling the Eclipse SDK

* bug 383690 - [compiler] location of error re uninitialized final field should be aligned

* bug 331649 - [compiler][null] consider null annotations for fields

* bug 383368 - [compiler][null] syntactic null analysis for field references

* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions
for

* bug 386692 - Missing "unused" warning on "autowired" fields
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* Bug 378674 - "The method can be declared as static" is wrong

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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* bug 413958 - Function override returning inherited Generic Type

- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- * Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
- * Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- * Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
- * Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
- * Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- * Bug 446442 - [1.8] merge null annotations from super methods
- * Bug 457079 - Regression: type inference

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- * Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
 - * bug 185682 - Increment/decrement operators mark local variables as read
 - * bug 186342 - [compiler][null] Using annotations for null checking
 - * bug 365519 - editorial cleanup after bug 186342 and bug 365387
 - * bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
 - * bug 345305 - [compiler][null]
- Compiler misidentifies a case of "variable can only be null"
- * Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
- * Bug 458396 - NPE in CodeStream.invoke()
- * Jesper S Moller - Contributions for
 - * bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 - * bug 331649 - [compiler][null] consider null annotations for fields
 - * bug 383368 - [compiler][null] syntactic null analysis for field references
 - * bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
- * Jesper S Moller <jesper@selskabet.org> - Contributions for
 - * bug 378674 - "The method can be declared as static" is wrong

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/ConflictedParser.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java
*
/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/core/compiler/CategorizedProblem.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfPackage.java
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* Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196

* Stephan Herrmann - Contributions for

* bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)

* bug 374605 - Unreasonable warning for enum-based switch statements

* bug 393719 - [compiler] inconsistent warnings on iteration variables

* bug 382353 - [1.8][compiler] Implementation property modifiers

should be accepted on default methods.

* bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods

* bug 401035 - [1.8] A few tests have started failing recently

* Jesper S Moller - Contributions for

* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

* bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods

* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration

* bug 393192 - Incomplete type hierarchy with > 10 annotations

* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

* Andy Clement - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

*

Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes

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* bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously

* bug 292478 - Report potentially null across variable assignment

* bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself

* bug 354554 - [null] conditional with redundant condition

yields weak error message

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 383368 - [compiler][null] syntactic null analysis for field references

* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions

* Bug 428352 - [1.8][compiler] Resolution errors don't always surface

* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

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*   Bug 407191 - [1.8] Binary access support for type annotations
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*   Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*   Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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*   IBM Corporation - Fix for bug 341494
*   IBM Corporation - Fix for bug 328575
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*     bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*     Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*     Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocImplicitTypeReference.java
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
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* Till Brychcy - initial API and implementation

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/FieldInitsFakingFlowContext.java

* /ecj-3-33-0-sources-

jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithTypeAnnotations.java

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* Stephan Herrmann - Contributions for

* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

* bug 383368 - [compiler][null] syntactic null analysis for field references

* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug

422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction

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* Stephan Herrmann - Contributions for

* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 415790

- [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch

*****/

Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ForStatement.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ProvidesStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IMultiModuleEntry.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IModuleAwareNameEnvironment.java
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*   Stephan Herrmann - initial API and implementation  
*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for  
*       Bug 473178  
*   IBM Corporation - Bug fixes  
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/BoundSet.java
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*   IBM Corporation - initial API and implementation
*   Erling Ellingsen - patch for bug 125570
*   Stephan Herrmann - Contribution for
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*   Sebastian Zarnekow - Contribution for
*     Bug 544921 - [performance] Poor performance with large source files
*****/

```

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in path(s):

```

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IModule.java
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*     bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*     bug 370639 - [compiler][resource] restore the default for resource leak warnings
*     bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*     Bug 417758 - [1.8][null] Null safety compromise during array creation.
*     Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*     Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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Found in path(s):

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ArrayInitializer.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/CharArrayHashMap.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/CharDelegateMap.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/CharArrayMap.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/CharArrayMapper.java

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- * Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
 - * bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
 - * bug 349326 - [1.7] new warning for missing try-with-resources
 - * bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
 - * bug 358903 - Filter practically unimportant resource leak warnings
 - * bug 395002 - Self bound generic class

doesn't resolve bounds properly for wildcards for certain parametrisation.

- * bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- * Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 426792 - [1.8][inference][impl] generify new type inference engine
- * Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
- * Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
- * Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
- * Bug 431408 - Java 8 (1.8) generics bug
- * Bug 435962 - [RC2] StackOverFlowError when building
- * Bug
 - 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- * Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
- * Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
- * Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
- * Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- * Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
- * Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
- * Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
- * Bug 462790 - [null] NPE in Expression.computeConversion()
- * Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages

* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version

- * Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeVariableBinding.java

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*   Stephan Herrmann - Contribution for
*     Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*     Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*     Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
*     Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Andy
  Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*     Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*     Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*   Stephan Herrmann - Contributions for
*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 331649 - [compiler][null] consider null annotations for fields
*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*     bug 403086 - [compiler][null] include the effect of 'assert'
  in syntactic null analysis for fields
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/EqualExpression.java

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* Stephan Herrmann - contributions for

* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* bug

392862 - [1.8][compiler][null] Evaluate null annotations on array types

* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

- * Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
- * Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- * Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
- * Bug 416190 - [1.8][null]

detect incompatible overrides due to null type annotations

- * Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
- * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- * Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
- * Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
- * Bug 457079 - Regression: type inference
- * Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
- * Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
- * Bug 470467 - [null] Nullness of special Enum methods not detected from .class file

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/AnnotationContext.java

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- * Stephan Herrmann - Contributions for
- * bug 349326 - [1.7] new warning for missing try-with-resources
- * bug 186342 - [compiler][null] Using annotations for null checking
- * bug 365519 - editorial cleanup after bug 186342 and bug 365387
- * bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- * bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
- * bug 383368 - [compiler][null] syntactic null analysis for field references
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- * Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- * Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- * Jesper S Moller <jesper@selskabet.org> - Contributions for
- * bug 378674 - "The method can be declared as static" is wrong
- * bug 413873 - Warning "Method can be static" on method referencing a non-static inner class

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- * Contributors:

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- * IBM Corporation - fix for 342598

- * IBM Corporation - Java 8 support

- * het@google.com - Bug 427943 - The method

org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/Factory.java

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* Benjamin Muskalla - Contribution for bug 239066

* Stephan Herrmann - Contributions for

* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used

* bug 338303 - Warning about Redundant assignment conflicts with definite assignment

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365519 - editorial cleanup after bug 186342 and bug 365387

* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

* bug 374605 - Unreasonable warning for enum-based switch statements

* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.

* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance

* bug 388281 - [compiler][null] inheritance of null annotations as an option

* bug 376053 - [compiler][resource] Strange potential resource leak problems

* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated

* bug 393719 - [compiler] inconsistent warnings on iteration

variables

* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared

abstract

* bug 331649 - [compiler][null] consider null annotations for fields

* bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null

* bug 376590 - Private fields with @Inject are ignored by unused field validation

* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

* bug 402028 - [1.8][compiler] null analysis for reference expressions

* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method

* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super

* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

* Bug

392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

- * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- * Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
- * Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- * Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- * Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
- * Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
- * Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
- * Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
- * Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
- * Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
- * Bug 430150 - [1.8][null] stricter checking against type variables
- * Bug 434600 - Incorrect null analysis error reporting on type parameters
- * Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
- * Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding method _ due to incompatible nullness constraints"
- * Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault in package-info.java
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 446442 - [1.8] merge null annotations from super methods
- * Bug 455723 - Nonnull argument not correctly inferred in loop
- * Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
- * Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- * Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
- * Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- * Jesper S Moller <jesper@selskabet.org> - Contributions for
- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- * bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
- * bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
- * bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * bug 412151 - [1.8][compiler] Check repeating annotation's collection type
- * bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
- * Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
- * Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
- * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- * Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- * bug 386692 - Missing "unused" warning on "autowired" fields

*****/

Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/ProblemReporter.java

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* Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SynchronizedStatement.java

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*   Stephan Herrmann - Contribution for
*       bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 405104 -
*       [1.8][compiler][codegen] Implement support for serializable lambdas
*****/

```

Found in path(s):

```

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticMethodBinding.java
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 292478 - Report potentially null across variable assignment,
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:
info cannot be null
*       Bug 458396 - NPE in CodeStream.invoke()
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*   Jesper S Moller - <jesper@selskabet.org> - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 378674 - "The method can be declared as static" is wrong
*       bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*****/

```

Found in path(s):

```

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SingleNameReference.java

```

1.158 checker-qual 3.33.0

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1.159 spring-security-config 5.8.6

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* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/http/WebConfigUtils.java

* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/method/MethodConfigUtils.java

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jar/org/springframework/security/config/http/GrantedAuthorityDefaultsParserUtils.java

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jar/org/springframework/security/config/http/HandlerMappingIntrospectorFactoryBean.java

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jar/org/springframework/security/config/core/userdetails/ReactiveUserDetailsServiceResourceFactoryBean.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/reactive/EnableWebFluxSecurity.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/core/userdetails/UserDetailsMapFactoryBean.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/provisioning/UserDetailsManagerResourceFactoryBean.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/authentication/configuration/GlobalAuthenticationConfigurerAdapter.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/SecurityWebFiltersOrder.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/method/configuration/EnableReactiveMethodSecurity.java
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* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/CorsConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/FormLoginBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/authentication/AuthenticationManagerFactoryBean.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/websocket/WebSocketMessageBrokerSecurityBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/oauth2/client/OAuth2ClientConfigurerUtils.java
a
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/http/CorsBeanDefinitionParser.java

```

* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/configuration/AutowireBeanFactoryObjectPostProcessor.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/core/userdetails/UserDetailsResourceFactoryBean.java
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* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/AbstractHttpConfigurer.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/Elements.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configuration/HttpSecurityConfiguration.java
*
/spring-security-config-5-8-6-sources-jar/org/springframework/security/config/http/AuthorizationFilterParser.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/oauth2/client/OAuth2LoginConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/method/ProtectPointcutPostProcessor.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/HttpSecurityDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/socket/AbstractSecurityWebSocketMessageBrokerConfigu
rer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configuration/SecurityReactorContextConfiguration.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/FilterInvocationSecurityMetadataSourceParser.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/Saml2LoginBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/saml2/Saml2LoginConfigurer.java
* /spring-security-config-5-8-6-sources-

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jar/org/springframework/security/config/annotation/web/configuration/OAuth2ClientConfiguration.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/OAuth2ResourceServerDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/AbstractAuthenticationFilterConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configuration/WebSecurityConfiguration.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/authentication/configuration/EnableGlobalAuthentication.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/CsrfConfigurer.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/AuthorizeRequestsDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/Saml2LoginBeanDefinitionParserUtils.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/method/MethodSecurityMetadataSourceBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/method/configuration/GlobalMethodSecurityConfiguration.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/method/configuration/Jsr250MetadataSourceConfiguration.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/SecurityContextDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/method/configuration/GlobalMethodSecurityAspectJAutoProxy
Registrar.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/UrlAuthorizationConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/ldap/EmbeddedLdapServerContextSourceFactoryBean.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/server/ServerCsrfDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/method/AspectJMethodMatcher.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/AbstractRequestMatcherRegistry.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/http/SecurityFilters.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/SecurityContextConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/oauth2/client/OAuth2ClientConfigurer.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/method/configuration/MethodSecurityAspectJAutoProxyRegistr
ar.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/headers/XssProtectionConfigDsl.kt
* /spring-security-config-5-8-6-sources-

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jar/org/springframework/security/config/annotation/method/configuration/GlobalMethodSecuritySelector.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configuration/WebMvcSecurityConfiguration.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/Saml2LogoutBeanDefinitionParserUtils.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/socket/EnableWebSocketSecurity.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/AbstractInterceptUrlConfigurer.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/socket/MessageMatcherAuthorizationManagerConfiguratio
n.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/builders/WebSecurity.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/ServerOpaqueTokenDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/SessionManagementDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/ldap/LdapPasswordComparisonAuthenticationManagerFactory.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/OAuth2ClientDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/AuthorizeHttpRequestsConfigurer.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/OAuth2LoginDsl.kt
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/reactive/ReactiveOAuth2ClientImportSelector.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/authentication/configuration/AuthenticationConfiguration.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/AuthorizeHttpRequestsDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/method/configuration/ReactiveAuthorizationManagerMethodSe
curityConfiguration.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/ServletApiConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/SessionManagementConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/method/PointcutDelegatingAuthorizationManager.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configuration/EnableWebSecurity.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/AuthenticationConfigBuilder.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/ExpressionUrlAuthorizationConfigurer.java

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* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/X509Configurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/method/configuration/MethodSecurityMetadataSourceAdvisorR
egistrar.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/saml2/Saml2LogoutConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/method/MethodSecurityBeanDefinitionParser.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/OAuth2ResourceServerBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/AbstractRequestMatcherDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/OAuth2LoginBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/http/HttpConfigurationBuilder.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/http/CsrfBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-
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* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/WebSecurityConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/oauth2/server/resource/OAuth2ResourceServer
Configurer.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/messaging/MessageSecurityMetadataSourceRegistry.java
* /spring-security-config-5-8-6-sources-
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* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/CsrfDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/ldap/LdapBindAuthenticationManagerFactory.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/JeeConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/method/PrefixBasedMethodMatcher.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/ldap/AbstractLdapAuthenticationManagerFactory.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/ChannelSecurityConfigurer.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/ExceptionHandlingConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/AnonymousConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/LogoutBeanDefinitionParser.java

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* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/HttpBasicConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/method/configuration/ReactiveMethodSecuritySelector.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/HeadersConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/Saml2LogoutBeanDefinitionParser.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/method/GlobalMethodSecurityBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/method/configuration/EnableGlobalMethodSecurity.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/ServerXssProtectionDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/method/InterceptMethodsBeanDefinitionDecorator.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/OAuth2ClientBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/oauth2/resourceserver/OpaqueTokenDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/DefaultFilterChainValidator.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/FormLoginConfigurer.java
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```

Found in path(s):

```

* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/RememberMeBeanDefinitionParser.java
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```

```

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```

Found in path(s):

```

* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/server/ServerHttpSecurity.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/method/configuration/MethodSecurityAdvisorRegistrar.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/method/configuration/MethodSecuritySelector.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/method/configuration/PrePostMethodSecurityConfiguration.java
a
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/LogoutConfigurer.java

```

```

* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/RememberMeConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/AbstractServerWebExchangeMatcherRegistry.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/method/configuration/SecuredMethodSecurityConfiguration.java
a
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/builders/HttpSecurity.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configuration/WebSecurityConfigurerAdapter.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/socket/WebSocketMessageBrokerSecurityConfiguration.java
va
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/saml2/RelyingPartyRegistrationsBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/method/configuration/Jsrf250MethodSecurityConfiguration.java
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```

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```

* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/AuthorizeExchangeDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/WellKnownChangePasswordBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/headers/CrossOriginOpenerPolicyDsl.kt
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/HeadersBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-

```

```

jar/org/springframework/security/config/web/server/ServerCrossOriginEmbedderPolicyDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/PasswordManagementDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/oauth2/resourceserver/JwtDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/ServerHttpSecurityDsl.kt
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/HeadersDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/ServerPasswordManagementDsl.kt
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/CorsDsl.kt
*
/spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/Saml2Dsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/ServerPermissionsPolicyDsl.kt
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/RememberMeDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/ServerCrossOriginOpenerPolicyDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/reactive/ServerHttpSecurityConfiguration.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/oauth2/login/UserInfoEndpointDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/PermitAllSupport.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/authentication/AuthenticationManagerBeanDefinitionParser.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/ServerCrossOriginResourcePolicyDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/headers/CrossOriginEmbedderPolicyDsl.kt
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/server/ServerHeadersDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/builders/FilterOrderRegistration.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/PasswordManagementConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configuration/WebSecurityCustomizer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/method/configuration/EnableMethodSecurity.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/headers/CrossOriginResourcePolicyDsl.kt
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* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/debug/SecurityDebugBeanFactoryPostProcessor.java
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```

* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/FilterChainMapBeanDefinitionDecorator.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/ldap/package-info.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/ldap/LdapProviderBeanDefinitionParser.java
*
/spring-security-config-5-8-6-sources-jar/org/springframework/security/config/method/package-info.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/BeanIds.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/http/ChannelAttributeFactory.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/http/MatcherType.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/core/GrantedAuthorityDefaults.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/authentication/AbstractUserDetailsServiceBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/http/SessionCreationPolicy.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/package-info.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/authentication/package-info.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/HttpFirewallBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/PortMappingsBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/UserDetailsServiceFactoryBean.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/FilterChainBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/DebugBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/ldap/ContextSourceSettingPostProcessor.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/authentication/AuthenticationProviderBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/authentication/UserServiceBeanDefinitionParser.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/ldap/LdapUserServiceBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/http/package-info.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/authentication/JdbcUserServiceBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/authentication/PasswordEncoderParser.java

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```
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/rsocket/PayloadInterceptorOrder.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/rsocket/RSocketSecurityConfiguration.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/rsocket/SecuritySocketAcceptorInterceptorConfiguration.java
*
```

```
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/rsocket/EnableRSocketSecurity.java
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```
* /spring-security-config-5-8-6-sources-
```

```

jar/org/springframework/security/config/annotation/web/configuration/OAuth2ImportSelector.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/servlet/configuration/WebMvcSecurityConfiguration.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/crypto/RsaKeyConversionServicePostProcessor.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/configuration/ObjectPostProcessorConfiguration.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/Customizer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/method/configuration/ReactiveMethodSecurityConfiguration.java
va
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/authentication/configuration/InitializeUserDetailsBeanManager
Configurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/authentication/configuration/InitializeAuthenticationProviderBe
anManagerConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/reactive/WebFluxSecurityConfiguration.java
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```

* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/ServerExceptionHandlerDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/ServerCacheControlDsl.kt
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/server/ServerX509Dsl.kt
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/oauth2/client/AuthorizationCodeGrantDsl.kt
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/RequiresChannelDsl.kt

```

* /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/annotation/web/configurers/oauth2/client/ImplicitGrantConfigurer.java
 * /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/ldap/LdapServerBeanDefinitionParser.java
 * /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/web/servlet/oauth2/login/OAuth2LoginSecurityMarker.kt
 * /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/web/servlet/headers/CacheControlDsl.kt
 * /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/web/server/ServerHttpStrictTransportSecurityDsl.kt
 * /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/web/servlet/session/SessionFixationDsl.kt
 *
 /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/server/ServerSecurityMarker.kt
 * /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/server/ServerHttpBasicDsl.kt
 * /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/server/ServerLogoutDsl.kt
 * /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/web/servlet/session/SessionSecurityMarker.kt
 * /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/LogoutDsl.kt
 * /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/X509Dsl.kt
 * /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/server/ServerFormLoginDsl.kt
 * /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/web/servlet/headers/HeadersSecurityMarker.kt
 * /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/web/servlet/headers/ReferrerPolicyDsl.kt
 *
 /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/web/servlet/session/SessionConcurrencyDsl.kt
 * /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/web/servlet/oauth2/client/OAuth2ClientSecurityMarker.kt
 * /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/http/OAuth2ClientBeanDefinitionParserUtils.java
 * /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/server/ServerJwtDsl.kt
 * /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/web/server/ServerOAuth2ResourceServerDsl.kt
 * /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/web/server/ServerRequestCacheDsl.kt
 * /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/web/server/ServerAnonymousDsl.kt
 * /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/web/servlet/headers/PermissionsPolicyDsl.kt
 *
 /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/web/servlet/oauth2/resourceserver/OAuth2ResourceServerSecurityMarker.kt
 * /spring-security-config-5-8-6-sources-
 jar/org/springframework/security/config/web/server/ServerReferrerPolicyDsl.kt
 * /spring-security-config-5-8-6-sources-

```

jar/org/springframework/security/config/web/servlet/oauth2/login/RedirectionEndpointDsl.kt
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/PortMapperDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/ServerContentSecurityPolicyDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/ServerOAuth2ClientDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/oauth2/login/AuthorizationEndpointDsl.kt
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/RequestCacheDsl.kt
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/oauth2/client/CommonOAuth2Provider.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/AnonymousDsl.kt
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/HttpBasicDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/OAuth2ClientWebMvcSecurityPostProcessor.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/headers/ContentSecurityPolicyDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/ServerContentTypeOptionsDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/headers/ContentTypeOptionsDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/oauth2/login/TokenEndpointDsl.kt
*
/spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/server/ServerCorsDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/ServerHttpsRedirectDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/ExceptionHandlingDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/headers/FrameOptionsDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/headers/HttpPublicKeyPinningDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/oauth2/client/ClientRegistrationsBeanDefinitionParser.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/servlet/headers/HttpStrictTransportSecurityDsl.kt
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/SecurityMarker.kt
*
/spring-security-config-5-8-6-sources-jar/org/springframework/security/config/web/servlet/FormLoginDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/ldap/LdapAuthenticationProviderCon
figurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/ServerOAuth2LoginDsl.kt
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/http/HttpSecurityBeanDefinitionParser.java

```

* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/HttpSecurityBuilder.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/web/server/ServerFrameOptionsDsl.kt
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jar/org/springframework/security/config/annotation/authentication/builders/AuthenticationManagerBuilder.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/SecurityConfigurerAdapter.java

```

* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/RequestCacheConfigurer.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/servlet/configuration/EnableWebMvcSecurity.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/UserDetailsManagerCo
nfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/AbstractDaoAuthenticatio
nConfigurer.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/annotation/SecurityBuilder.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/DaoAuthenticationConfig
urer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/UserDetailsServiceConfig
urer.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configuration/AutowiredWebSecurityConfigurersIgnorePar
ents.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/authentication/ProviderManagerBuilder.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/InMemoryUserDetails
ManagerConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/AbstractConfiguredSecurityBuilder.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/AlreadyBuiltException.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/AbstractSecurityBuilder.java
* /spring-security-config-5-8-6-sources-jar/org/springframework/security/config/annotation/SecurityConfigurer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/PortMapperConfigurer.java
*
/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configuration/SpringWebMvcImportSelector.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/web/configurers/AbstractConfigAttributeRequestMatcherRegist
ry.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/UserDetailsAwareConfig
urer.java
* /spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/JdbcUserDetailsManage
rConfigurer.java

```

`*/spring-security-config-5-8-6-sources-
jar/org/springframework/security/config/annotation/ObjectPostProcessor.java`

1.160 doh 1.17.3

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1.162 jackson-datatype-jsr310 2.13.5

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1.163 j2objc-annotations 2.8

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 */
```

Found in path(s):

```
*/j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/Weak.java
*/j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/AutoreleasePool.java
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```

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*/

Found in path(s):

* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/ReflectionSupport.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/RetainedWith.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/WeakOuter.java
*
/j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/ObjectiveCName.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/Property.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/LoopTranslation.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/OnDealloc.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/RetainedLocalRef.java

1.164 groovy 3.0.19

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Found in path(s):

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* Based on an original grammar released in the PUBLIC DOMAIN

Found in path(s):

- * /groovy-3-0-19-sources-jar/org/codehaus/groovy/antlr/groovy.g
- * /groovy-3-0-19-sources-jar/org/codehaus/groovy/antlr/java/java.g

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/*

- * This file is adapted from the Antlr4 Java grammar which has the following license

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*/

/**

- * The Groovy grammar is based on the official grammar for Java:

- * <https://github.com/antlr/grammars-v4/blob/master/java/Java.g4>

*/

lexer grammar GroovyLexer;

options {

 superClass = AbstractLexer;

}

@header {

 import java.util.Deque;

 import java.util.ArrayDeque;


```

import java.util.Map;
import java.util.HashMap;
import java.util.Set;
import java.util.HashSet;
import java.util.Collections;
import java.util.Arrays;
import java.util.stream.IntStream;
import java.util.logging.Logger;
import java.util.logging.Level;
import java.util.EmptyStackException;
import org.apache.groovy.util.Maps;
import static org.apache.groovy.parserantlr4.SemanticPredicates.*;
}

@members {
    private static final
    Logger LOGGER = Logger.getLogger(GroovyLexer.class.getName());

    private boolean errorIgnored;
    private long tokenIndex;
    private int lastTokenType;
    private int invalidDigitCount;

    /**
     * Record the index and token type of the current token while emitting tokens.
     */
    @Override
    public void emit(Token token) {
        this.tokenIndex++;

        int tokenType = token.getType();
        if (Token.DEFAULT_CHANNEL == token.getChannel()) {
            this.lastTokenType = tokenType;
        }

        if (RollBackOne == tokenType) {
            this.rollbackOneChar();
        }

        super.emit(token);
    }

    private static final int[] REGEX_CHECK_ARRAY = {
        DEC,
        INC,
        THIS,
        RBACE,
        RBRAK,
    }

```

```

    RPAREN,
    GStringEnd,
    NullLiteral,
    StringLiteral,
    BooleanLiteral,
    IntegerLiteral,
    FloatingPointLiteral,
    Identifier, CapitalizedIdentifier
};
static {

    Arrays.sort(REGEX_CHECK_ARRAY);
}

private boolean isRegexAllowed() {
    return (Arrays.binarySearch(REGEX_CHECK_ARRAY, this.lastTokenType) < 0);
}

/**
 * just a hook, which will be overridden by GroovyLangLexer
 */
protected void rollbackOneChar() {}

private static class Paren {
    private String text;
    private int lastTokenType;
    private int line;
    private int column;

    public Paren(String text, int lastTokenType, int line, int column) {
        this.text = text;
        this.lastTokenType = lastTokenType;
        this.line = line;
        this.column = column;
    }

    public String getText() {
        return this.text;
    }

    public int getLastTokenType() {
        return this.lastTokenType;
    }

    public int getLine() {
        return line;
    }
}

```

```

    public int getColumn() {
        return column;
    }

    @Override

    public int hashCode() {
        return (int) (text.hashCode() * line + column);
    }

    @Override
    public boolean equals(Object obj) {
        if (!(obj instanceof Paren)) {
            return false;
        }

        Paren other = (Paren) obj;

        return this.text.equals(other.text) && (this.line == other.line && this.column == other.column);
    }
}

protected void enterParenCallback(String text) {}

protected void exitParenCallback(String text) {}

private final Deque<Paren> parenStack = new ArrayDeque<>(32);

private void enterParen() {
    String text = getText();
    enterParenCallback(text);

    parenStack.push(new Paren(text, this.lastTokenType, getLine(), getCharPositionInLine()));
}

private void exitParen() {
    String text = getText();
    exitParenCallback(text);

    Paren paren = parenStack.peek();
    if (null == paren) return;
    parenStack.pop();
}

private boolean isInsideParens() {
    Paren paren = parenStack.peek();

    // We just care about "(" and "[", inside which the new lines will be ignored.
    // Notice: the new lines between "{" and "}" can not be ignored.

```

```

        if (null == paren) {
            return false;
        }

        return ("(" .equals(paren.getText()) && TRY != paren.getLastTokenType()) // we don't treat try-paren(i.e. try
        (....)) as parenthesis
            || "[" .equals(paren.getText());
    }
    private void ignoreTokenInsideParens() {
        if (!this.isInsideParens()) {
            return;
        }

        this.setChannel(Token.HIDDEN_CHANNEL);
    }
    private void ignoreMultiLineCommentConditionally() {
        if (!this.isInsideParens() && isFollowedByWhiteSpaces(_input)) {
            return;
        }

        this.setChannel(Token.HIDDEN_CHANNEL);
    }

    @Override
    public int getSyntaxErrorSource() {
        return GroovySyntaxError.LEXER;
    }

    @Override
    public int getErrorLine() {
        return getLine();
    }

    @Override
    public int getErrorColumn() {
        return getCharPositionInLine() + 1;
    }

    @Override
    public int popMode() {
        try {
            return super.popMode();
        } catch (EmptyStackException ignored) { // raised when parens are unmatched: too many ), ], or }
            if (LOGGER.isLoggable(Level.FINEST)) {
                LOGGER.finest(org.codehaus.groovy.runtime.DefaultGroovyMethods.asString(ignored));
            }
        }
    }

```

```

        return Integer.MIN_VALUE;
    }

    private static boolean isJavaIdentifierStartAndNotIdentifierIgnorable(int codePoint) {
        return Character.isJavaIdentifierStart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
    }

    private static boolean isJavaIdentifierPartAndNotIdentifierIgnorable(int codePoint) {
        return Character.isJavaIdentifierPart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
    }

    public boolean
    isErrorIgnored() {
        return errorIgnored;
    }

    public void setErrorIgnored(boolean errorIgnored) {
        this.errorIgnored = errorIgnored;
    }
}

// §3.10.5 String Literals
StringLiteral
: GStringQuotationMark DqStringCharacter* GStringQuotationMark
| SqStringQuotationMark SqStringCharacter* SqStringQuotationMark
| Slash { this.isRegexAllowed() && _input.LA(1) != '*' }? SlashyStringCharacter+ Slash

| TdqStringQuotationMark TdqStringCharacter* TdqStringQuotationMark
| TsqStringQuotationMark TsqStringCharacter* TsqStringQuotationMark
| DollarSlashyGStringQuotationMarkBegin DollarSlashyStringCharacter+
DollarSlashyGStringQuotationMarkEnd
;

GStringBegin
: GStringQuotationMark DqStringCharacter* Dollar -> pushMode(DQ_GSTRING_MODE),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
;

TdqGStringBegin
: TdqStringQuotationMark TdqStringCharacter* Dollar -> type(GStringBegin),
pushMode(TDQ_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
;

SlashyGStringBegin
: Slash { this.isRegexAllowed() && _input.LA(1) != '*' }? SlashyStringCharacter* Dollar {
isFollowedByJavaLetterInGString(_input) }? -> type(GStringBegin), pushMode(SLASHY_GSTRING_MODE),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
;

DollarSlashyGStringBegin

```

```

        : DollarSlashyGStringQuotationMarkBegin DollarSlashyStringCharacter* Dollar {
isFollowedByJavaLetterInGString(_input) }? -> type(GStringBegin),
pushMode(DOLLAR_SLASHY_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
;

```

```

mode DQ_GSTRING_MODE;

```

```

GStringEnd

```

```

    : GStringQuotationMark    -> popMode

```

```

;

```

```

GStringPart

```

```

    : Dollar -> pushMode(GSTRING_TYPE_SELECTOR_MODE)

```

```

;

```

```

GStringCharacter

```

```

    : DqStringCharacter -> more

```

```

;

```

```

mode TDQ_GSTRING_MODE;

```

```

TdqGStringEnd

```

```

    : TdqStringQuotationMark    -> type(GStringEnd), popMode

```

```

;

```

```

TdqGStringPart

```

```

    : Dollar -> type(GStringPart), pushMode(GSTRING_TYPE_SELECTOR_MODE)

```

```

;

```

```

TdqGStringCharacter

```

```

    : TdqStringCharacter

```

```

-> more

```

```

;

```

```

mode SLASHY_GSTRING_MODE;

```

```

SlashyGStringEnd

```

```

    : Dollar? Slash -> type(GStringEnd), popMode

```

```

;

```

```

SlashyGStringPart

```

```

    : Dollar { isFollowedByJavaLetterInGString(_input) }? -> type(GStringPart),

```

```

pushMode(GSTRING_TYPE_SELECTOR_MODE)

```

```

;

```

```

SlashyGStringCharacter

```

```

    : SlashyStringCharacter -> more

```

```

;

```

```

mode DOLLAR_SLASHY_GSTRING_MODE;

```

```

DollarSlashyGStringEnd

```

```

    : DollarSlashyGStringQuotationMarkEnd    -> type(GStringEnd), popMode

```

```

;

```

```

DollarSlashyGStringPart

```

```

    : Dollar { isFollowedByJavaLetterInGString(_input) }? -> type(GStringPart),

```

```

pushMode(GSTRING_TYPE_SELECTOR_MODE)

```

```

;

```

```

DollarSlashyGStringCharacter
: DollarSlashyStringCharacter -> more
;

mode GSTRING_TYPE_SELECTOR_MODE;
GStringLBrace
: '{' { this.enterParen(); } -> type(LBRACE), popMode, pushMode(DEFAULT_MODE)
;
GStringIdentifier
: IdentifierInGString -> type(Identifier), popMode, pushMode(GSTRING_PATH_MODE)
;

mode GSTRING_PATH_MODE;
GStringPathPart

: Dot IdentifierInGString
;
RollBackOne
: . {
    // a trick to handle GStrings followed by EOF properly
    int readChar = _input.LA(-1);
    if (EOF == _input.LA(1) && ("" == readChar || "'" == readChar)) {
        setType(GStringEnd);
    } else {
        setChannel(HIDDEN);
    }
} -> popMode
;

mode DEFAULT_MODE;
// character in the double quotation string. e.g. "a"
fragment
DqStringCharacter
: ~["\r\n\\$]
| EscapeSequence
;

// character in the single quotation string. e.g. 'a'
fragment
SqStringCharacter
: ~[\'r\n\\]
| EscapeSequence
;

// character in the triple double quotation string. e.g. """a"""
fragment TdqStringCharacter

```

```

: ~["\\$]
| GStringQuotationMark { _input.LA(1) != '"' || _input.LA(2) != '"' || _input.LA(3) == '"' && (_input.LA(4) != '"'
|| _input.LA(5) != '"') }?
| EscapeSequence
;

```

// character in the triple single quotation string.

e.g. `"""a"""`

fragment TsqStringCharacter

```

: ~["\\]
| SqStringQuotationMark { _input.LA(1) != '\"' || _input.LA(2) != '\"' || _input.LA(3) == '\"' && (_input.LA(4) !=
 '\"' || _input.LA(5) != '\"') }?
| EscapeSequence
;

```

// character in the slashy string. e.g. `/a/`

fragment SlashyStringCharacter

```

: SlashEscape
| Dollar { !isFollowedByJavaLetterInGString(_input) }?
| ~[/\$\\u0000]
;

```

// character in the dollar slashy string. e.g. `$/a/$`

fragment DollarSlashyStringCharacter

```

: DollarSlashEscape | DollarDollarEscape
| Slash { _input.LA(1) != '$' }?
| Dollar { !isFollowedByJavaLetterInGString(_input) }?
| ~[/\$\\u0000]
;

```

// Groovy keywords

```

AS      : 'as';
DEF     : 'def';
IN      : 'in';
TRAIT   : 'trait';
THREADSAFE : 'threadsafe'; // reserved keyword

```

// the reserved type name of Java10

```

VAR      : 'var';

```

// §3.9 Keywords

BuiltInPrimitiveType

```

: BOOLEAN
| CHAR
|
| BYTE
| SHORT
| INT

```



```

| LONG
| FLOAT
| DOUBLE
;

ABSTRACT    : 'abstract';
ASSERT      : 'assert';

fragment
BOOLEAN     : 'boolean';

BREAK       : 'break';

fragment
BYTE        : 'byte';

CASE        : 'case';
CATCH       : 'catch';

fragment
CHAR        : 'char';

CLASS       : 'class';
CONST       : 'const';
CONTINUE    : 'continue';
DEFAULT     : 'default';
DO          : 'do';

fragment
DOUBLE      : 'double';

ELSE        : 'else';
ENUM        : 'enum';
EXTENDS     : 'extends';
FINAL       : 'final';
FINALLY     : 'finally';

fragment
FLOAT       : 'float';

FOR         : 'for';
IF          : 'if';
GOTO        : 'goto';
IMPLEMENTS  : 'implements';
IMPORT      : 'import';
INSTANCEOF  : 'instanceof';

```

```
fragment
INT      : 'int';
```

```
INTERFACE : 'interface';
```

```
fragment
LONG      : 'long';
```

```
NATIVE     : 'native';
NEW        : 'new';
PACKAGE    : 'package';
PRIVATE    : 'private';
PROTECTED  : 'protected';
PUBLIC     : 'public';
RETURN     : 'return';
```

```
fragment
SHORT      : 'short';
```

```
STATIC     : 'static';
STRICTFP   : 'strictfp';
SUPER      : 'super';
SWITCH     : 'switch';
SYNCHRONIZED : 'synchronized';
THIS       : 'this';
THROW      : 'throw';
THROWS     : 'throws';
TRANSIENT  : 'transient';
TRY        : 'try';
VOID       : 'void';
VOLATILE   : 'volatile';
WHILE      : 'while';
```

```
// §3.10.1 Integer Literals
```

```
IntegerLiteral
```

```
    : ( DecimalIntegerLiteral
      | HexIntegerLiteral
      | OctalIntegerLiteral
      | BinaryIntegerLiteral
      ) (Underscore { require(errorIgnored, "Number ending with underscores is invalid", -1, true); })?
```

```
    // !!! Error Alternative !!!
    | Zero ([0-9] { invalidDigitCount++; }) + { require(errorIgnored, "Invalid octal number", -(invalidDigitCount +
1), true); } IntegerTypeSuffix?
```

;

fragment

Zero

: '0'

;

fragment

DecimalIntegerLiteral

:

DecimalNumeral IntegerTypeSuffix?

;

fragment

HexIntegerLiteral

: HexNumeral IntegerTypeSuffix?

;

fragment

OctalIntegerLiteral

: OctalNumeral IntegerTypeSuffix?

;

fragment

BinaryIntegerLiteral

: BinaryNumeral IntegerTypeSuffix?

;

fragment

IntegerTypeSuffix

: [LiIgG]

;

fragment

DecimalNumeral

: Zero

| NonZeroDigit (Digits? | Underscores Digits)

;

fragment

Digits

: Digit (DigitOrUnderscore* Digit)?

;

fragment

Digit

: Zero

| NonZeroDigit

;

fragment

NonZeroDigit

: [1-9]

;

fragment

DigitOrUnderscore

: Digit

| Underscore

;

fragment

Underscores

: Underscore+

;

fragment

Underscore

: '_'

;

fragment

HexNumeral

: Zero [xX] HexDigits

;

fragment

HexDigits

: HexDigit (HexDigitOrUnderscore* HexDigit)?

;

fragment

HexDigit

: [0-9a-fA-F]

;

fragment

HexDigitOrUnderscore

: HexDigit

| Underscore

;

fragment

OctalNumeral

: Zero Underscores? OctalDigits

;

```

fragment
OctalDigits
    : OctalDigit (OctalDigitOrUnderscore* OctalDigit)?
    ;

```

```

fragment
OctalDigit
    : [0-7]
    ;

```

```

fragment
OctalDigitOrUnderscore
    : OctalDigit
    | Underscore
    ;

```

```

fragment
BinaryNumeral
    : Zero [bB] BinaryDigits
    ;

```

```

fragment
BinaryDigits
    : BinaryDigit (BinaryDigitOrUnderscore* BinaryDigit)?
    ;

```

```

fragment
BinaryDigit
    : [01]
    ;

```

```

fragment
BinaryDigitOrUnderscore
    : BinaryDigit
    | Underscore
    ;

```

// §3.10.2 Floating-Point Literals

```

FloatingPointLiteral
    : ( DecimalFloatingPointLiteral
        | HexadecimalFloatingPointLiteral
        ) (Underscore { require(errorIgnored, "Number ending with underscores is invalid", -1, true); })?
    ;

```

```

fragment
DecimalFloatingPointLiteral

```

```

: Digits? Dot Digits ExponentPart? FloatTypeSuffix?
| Digits ExponentPart FloatTypeSuffix?
| Digits FloatTypeSuffix
;

```

```

fragment
ExponentPart
: ExponentIndicator
SignedInteger
;

```

```

fragment
ExponentIndicator
: [eE]
;

```

```

fragment
SignedInteger
: Sign? Digits
;

```

```

fragment
Sign
: [+\\-]
;

```

```

fragment
FloatTypeSuffix
: [fFdDgG]
;

```

```

fragment
HexadecimalFloatingPointLiteral
: HexSignificand BinaryExponent FloatTypeSuffix?
;

```

```

fragment
HexSignificand
: HexNumeral Dot?
| Zero [xX] HexDigits? Dot HexDigits
;

```

```

fragment
BinaryExponent
: BinaryExponentIndicator SignedInteger
;

```

```

fragment

```

BinaryExponentIndicator

: [pP]

;

fragment

Dot : '.'

;

// §3.10.3 Boolean Literals

BooleanLiteral

: 'true'

| 'false'

;

// §3.10.6 Escape Sequences for Character and String Literals

fragment

EscapeSequence

: Backslash [btnfrs"'\[]

| OctalEscape

| UnicodeEscape

| DollarEscape

| LineEscape

;

fragment

OctalEscape

: Backslash OctalDigit

| Backslash OctalDigit OctalDigit

| Backslash ZeroToThree OctalDigit OctalDigit

;

// Groovy allows 1 or more u's after the backslash

fragment

UnicodeEscape

: Backslash 'u' HexDigit HexDigit HexDigit HexDigit

;

fragment

ZeroToThree

: [0-3]

;

// Groovy Escape Sequences

fragment
DollarEscape
: Backslash Dollar
;

fragment
LineEscape
: Backslash LineTerminator
;

fragment
LineTerminator
: '\r'? '\n' | '\r'
;

fragment
SlashEscape
: Backslash Slash
;

fragment
Backslash
: '\\'
;

fragment
Slash
: '/'
;

fragment
Dollar
: '\$'
;

fragment
GStringQuotationMark
: ''''
;

fragment
SqStringQuotationMark
: '\"'
;

fragment
TdqStringQuotationMark
: ''''''''
;


```

;

fragment
TsQStringQuotationMark
: '\\\"
;

fragment
DollarSlashyGStringQuotationMarkBegin
: '$/'
;

fragment
DollarSlashyGStringQuotationMarkEnd
: '/$'
;

fragment
DollarSlashEscape
: '$/'
;

fragment
DollarDollarEscape
: '$$'
;

// §3.10.7 The Null
Literal
NullLiteral
: 'null'
;

// Groovy Operators

RANGE_INCLUSIVE : '..';
RANGE_EXCLUSIVE : '..<';
SPREAD_DOT      : '*.';
SAFE_DOT        : '?.';
SAFE_CHAIN_DOT  : '??.';
ELVIS           : '?:';
METHOD_POINTER   : '!&';
METHOD_REFERENCE : '::';
REGEX_FIND       : '=~';
REGEX_MATCH      : '==~';
POWER            : '**';
POWER_ASSIGN     : '**=';
SPACESHIP        : '<=>';

```

```

IDENTICAL      : '==';
NOT_IDENTICAL  : '!=';
ARROW          : '->';

// !internalPromise will be parsed as !in ternalPromise, so semantic predicates are necessary
NOT_INSTANCEOF : '!instanceof' { isFollowedBy(_input, ' ', '\t', '\r', '\n') }?;
NOT_IN         : '!in'      { isFollowedBy(_input, ' ', '\t', '\r', '\n', '[', '(', '{') }?;

// §3.11 Separators

LPAREN        : '(' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RPAREN        : ')' { this.exitParen(); } -> popMode;

LBRACE        : '{' { this.enterParen();
    } -> pushMode(DEFAULT_MODE);
RBRACE        : '}' { this.exitParen(); } -> popMode;

LBRACK        : '[' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RBRACK        : ']' { this.exitParen(); } -> popMode;

SEMI          : ';';
COMMA         : ',';
DOT           : '.';

// §3.12 Operators

ASSIGN        : '=';
GT            : '>';
LT            : '<';
NOT           : '!';
BITNOT        : '~';
QUESTION      : '?';
COLON         : ':';
EQUAL         : '==';
LE            : '<=';
GE            : '>=';
NOTEQUAL      : '!=';
AND           : '&&';
OR            : '||';
INC           : '++';
DEC           : '--';
ADD           : '+';
SUB           : '-';
MUL           : '*';
DIV           : '/';
BITAND        : '&';
BITOR         : '|';

```

```
XOR      : '^';
MOD      : '%';
```

```
ADD_ASSIGN : '+=';
SUB_ASSIGN : '-=';
MUL_ASSIGN : '*=';
DIV_ASSIGN : '/=';
AND_ASSIGN : '&=';
OR_ASSIGN
    : '|=';
XOR_ASSIGN : '^=';
MOD_ASSIGN : '%=';
LSHIFT_ASSIGN : '<<=';
RSHIFT_ASSIGN : '>>=';
URSHIFT_ASSIGN : '>>>=';
ELVIS_ASSIGN : '?=';
```

// §3.8 Identifiers (must appear after all keywords in the grammar)

CapitalizedIdentifier

```
: JavaLetter { Character.isUpperCase(_input.LA(-1)) }? JavaLetterOrDigit*
;
```

Identifier

```
: JavaLetter JavaLetterOrDigit*
;
```

fragment

IdentifierInGString

```
: JavaLetterInGString JavaLetterOrDigitInGString*
;
```

fragment

JavaLetter

```
: [a-zA-Z$_] // these are the "java letters" below 0x7F
| // covers all characters above 0x7F which are not a surrogate
  ~[\u0000-\u007F\uD800-\uDBFF]
  { isJavaIdentifierStartAndNotIdentifierIgnorable(_input.LA(-1)) }?
| // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
  [\uD800-\uDBFF] [\uDC00-\uDFFF]
  { Character.isJavaIdentifierStart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
;
```

fragment

JavaLetterInGString

```
: JavaLetter { _input.LA(-1) != '$' }?
;
```

```

fragment
JavaLetterOrDigit
: [a-zA-Z0-9$_] // these are the "java letters or digits" below 0x7F
| // covers all characters above 0x7F which are not a surrogate
  ~[\u0000-\u007F\uD800-\uDBFF]
  { isJavaIdentifierPartAndNotIdentifierIgnorable(_input.LA(-1)) }?
| // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
  [\uD800-\uDBFF] [\uDC00-\uDFFF]
  { Character.isJavaIdentifierPart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
;

```

```

fragment
JavaLetterOrDigitInGString
: JavaLetterOrDigit { _input.LA(-1) != '$' }?
;

```

```

fragment
ShCommand
: ~[\r\n\uFFFF]*
;

```

```

//
// Additional symbols not defined in the lexical specification
//

```

```

AT : '@';
ELLIPSIS : '...';

```

```

//
// Whitespace, line escape and comments
//

```

```

WS : ([ \t]+ | LineEscape+) -> skip
;

```

```

// Inside (...) and [...] but not {...}, ignore newlines.

```

```

NL : LineTerminator
    { this.ignoreTokenInsideParens(); }
;

```

```

// Multiple-line comments (including groovydoc comments)

```

```

ML_COMMENT
: '/' .*? '*'      { this.ignoreMultiLineCommentConditionally(); } -> type(NL)
;

```

```

// Single-line comments

```

```

SL_COMMENT
: '/' ~[\r\n\uFFFF]* { this.ignoreTokenInsideParens(); }      -> type(NL)

```

```

;

// Script-header comments.
// The very first characters of the file may be "#!". If so, ignore the first line.
SH_COMMENT
: '#!' { require(errorIgnored || 0 == this.tokenIndex, "Shebang comment should appear at the first line", -2, true); }
ShCommand (LineTerminator '!' ShCommand)* -> skip
;

// Unexpected characters will be handled by groovy parser later.
UNEXPECTED_CHAR
: . { require(errorIgnored, "Unexpected character: " + getText().replace("'", "\'") + "'", -1, false); }
;

```

Found in path(s):

* /groovy-3-0-19-sources-jar/GroovyLexer.g4

No license file was found, but licenses were detected in source scan.

```

# Licensed to the Apache Software Foundation (ASF) under one or more
# contributor license agreements. See the NOTICE file distributed with
# this work for additional information regarding copyright ownership.
# The ASF licenses this file to You under the Apache License, Version 2.0
# (the "License"); you may not use this file except in compliance with
# the License. You may obtain a copy of the License at
#
# http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.

# Format: one extension on each line without the leading "*."
# Listed below are default groovy source file extensions.

```

```

# NOTE: This implementation
# of supporting multiple file extensions is experimental and
# the exact implementation details may vary when modularization gets introduced in
# groovy 2.0. However, in terms of the behavior, this support will remain intact.
groovy

```

Found in path(s):

* /groovy-3-0-19-sources-jar/META-INF/groovy/org.codehaus.groovy.source.Extensions

No license file was found, but licenses were detected in source scan.

/*

* This file is adapted from the Antlr4 Java grammar which has the following license

```

*
* Copyright (c) 2013 Terence Parr, Sam Harwell
* All rights reserved.
* [The "BSD licence"]
*
* http://www.opensource.org/licenses/bsd-license.php
*
* Subsequent modifications by the Groovy community have been done under the Apache License v2:
*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the
* "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing,
* software distributed under the
* License is distributed on an
* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
* KIND, either express or implied. See the License for the
* specific language governing permissions and limitations
* under the License.
*/

/**
* The Groovy grammar is based on the official grammar for Java:
* https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
*/
parser grammar GroovyParser;

options {
    tokenVocab = GroovyLexer;
    contextSuperClass = GroovyParserRuleContext;
    superClass = AbstractParser;
}

@header {
    import java.util.Map;
    import org.codehaus.groovy.ast.NodeMetaDataHandler;
}

@members {

    public static class GroovyParserRuleContext extends ParserRuleContext implements NodeMetaDataHandler {

```

```

private Map metaDataMap = null;

public GroovyParserRuleContext() {}

public GroovyParserRuleContext(ParserRuleContext parent, int invokingStateNumber) {
    super(parent, invokingStateNumber);
}

@Override
public Map<?, ?> getMetaDataMap() {
    return this.metaDataMap;
}

@Override
public void setMetaDataMap(Map<?, ?> metaDataMap) {
    this.metaDataMap = metaDataMap;
}

@Override
public int getSyntaxErrorSource() {
    return GroovySyntaxError.PARSER;
}

@Override
public int getErrorLine() {
    Token token = _input.LT(-1);

    if (null == token) {
        return -1;
    }

    return token.getLine();
}

@Override
public int getErrorColumn() {
    Token token = _input.LT(-1);

    if (null == token) {
        return -1;
    }

    return token.getCharPositionInLine() + 1 + token.getText().length();
}

// starting point for parsing a groovy file

```

```

compilationUnit
: nls (packageDeclaration sep?)* scriptStatements? EOF
;

scriptStatements
: scriptStatement (sep scriptStatement)* sep?
;

scriptStatement
: importDeclaration
// Import statement. Can be used in any scope. Has "import x as y" also.
| typeDeclaration
// validate the method in the AstBuilder#visitMethodDeclaration, e.g. method without method body is not allowed
| { !SemanticPredicates.isInvalidMethodDeclaration(_input) }?
  methodDeclaration[3, 9]
| statement
;

packageDeclaration
: annotationsOpt PACKAGE qualifiedName
;

importDeclaration
: annotationsOpt IMPORT STATIC? qualifiedName (DOT MUL | AS alias=identifier)?
;

typeDeclaration
: classOrInterfaceModifiersOpt classDeclaration
;

modifier
: classOrInterfaceModifier
| m=( NATIVE
  | SYNCHRONIZED
  | TRANSIENT
  | VOLATILE
  | DEF
  | VAR
  )
;

modifiersOpt
: (modifiers nls)?
;

modifiers
: modifier (nls modifier)*

```



```

;

classOrInterfaceModifiersOpt
: (classOrInterfaceModifiers
   NL* /* Use `NL*` here for better performance,
so DON'T replace it with `nls` */
   )?
;

classOrInterfaceModifiers
: classOrInterfaceModifier (nls classOrInterfaceModifier)*
;

classOrInterfaceModifier
: annotation    // class or interface
| m=( PUBLIC    // class or interface
  | PROTECTED  // class or interface
  | PRIVATE    // class or interface
  | STATIC     // class or interface
  | ABSTRACT   // class or interface
  | FINAL      // class only -- does not apply to interfaces
  | STRICTFP   // class or interface
  | DEFAULT    // interface only -- does not apply to classes
  )
;

variableModifier
: annotation
| m=( FINAL
  | DEF
  | VAR
  // Groovy supports declaring local variables as instance/class fields,
  // e.g. import groovy.transform.*; @Field static List awe = [1, 2, 3]
  // e.g. import groovy.transform.*; def a = { @Field public List awe
= [1, 2, 3] }
  // Notice: Groovy 2.4.7 just allows to declare local variables with the following modifiers when using
annotations(e.g. @Field)
  // TODO check whether the following modifiers accompany annotations or not. Because the legacy codes(e.g.
benchmark/bench/heapsort.groovy) allow to declare the special instance/class fields without annotations, we leave it
as it is for the time being
  | PUBLIC
  | PROTECTED
  | PRIVATE
  | STATIC
  | ABSTRACT
  | STRICTFP
  )
;

```

```

variableModifiersOpt
    : (variableModifiers nls)?
    ;

variableModifiers
    : variableModifier (nls variableModifier)*
    ;

typeParameters
    : LT nls typeParameter (COMMA nls typeParameter)* nls GT
    ;

typeParameter
    : className (EXTENDS nls typeBound)?
    ;

typeBound
    : type (BITAND nls type)*
    ;

typeList
    : type (COMMA nls type)*
    ;

/**
 * t 0: class; 1: interface; 2: enum; 3: annotation; 4:
 * trait
 */
classDeclaration
locals[ int t ]
    : ( CLASS { $t = 0; }
      | INTERFACE { $t = 1; }
      | ENUM { $t = 2; }
      | AT INTERFACE { $t = 3; }
      | TRAIT { $t = 4; }
      )
    identifier
    (nls typeParameters)?
    (nls EXTENDS nls scs=typeList)?
    (nls IMPLEMENTS nls is=typeList)?
    nls classBody[$t]
    ;

// t see the comment of classDeclaration
classBody[int t]
    : LBRACE nls

```

```

(
    /* Only enum can have enum constants */
    { 2 == $t }?
    enumConstants (nls COMMA)? sep?
    |
)
(classBodyDeclaration[$t] (sep classBodyDeclaration[$t])*)? sep? RBRACE
;

enumConstants
: enumConstant (nls COMMA nls enumConstant)*
;

enumConstant
: annotationsOpt identifier arguments? anonymousInnerClassDeclaration[1]?
;

classBodyDeclaration[int t]
: (STATIC nls)? block
| memberDeclaration[$t]
;

memberDeclaration[int t]
: methodDeclaration[0,
$t]
| fieldDeclaration
| modifiersOpt classDeclaration
;

/**
 * t 0: *class member* all kinds of method declaration AND constructor declaration,
 * 1: normal method declaration, 2: abstract method declaration
 * 3: normal method declaration OR abstract method declaration
 * ct 9: script, other see the comment of classDeclaration
 */
methodDeclaration[int t, int ct]
: modifiersOpt typeParameters? (returnType[$ct] nls)?
  methodName formalParameters
  (
    DEFAULT nls elementValue
    |
    (nls THROWS nls qualifiedClassNameList)?
    (nls methodBody)?
  )?
;

methodName
: identifier

```

```

| stringLiteral
;

returnType[int ct]
:
    standardType
| VOID
;

fieldDeclaration
: variableDeclaration[1]
;

variableDeclarators
: variableDeclarator (COMMA nls variableDeclarator)*
;

variableDeclarator
: variableDeclaratorId (nls ASSIGN nls variableInitializer)?
;

variableDeclaratorId
: identifier
;

variableInitializer
: enhancedStatementExpression
;

variableInitializers
: variableInitializer (nls COMMA nls variableInitializer)* nls COMMA?
;

emptyDims
: (annotationsOpt LBRACK RBRACK)+
;

emptyDimsOpt
: emptyDims?
;

standardType
options { baseContext = type; }
: annotationsOpt
(
    primitiveType
|
    standardClassOrInterfaceType

```

```

    )
    emptyDimsOpt
;

type
: annotationsOpt
(
    (
        primitiveType
    |
        // !!! Error Alternative !!!
        VOID
    )
|
    generalClassOrInterfaceType
)
emptyDimsOpt
;

classOrInterfaceType
: ( qualifiedClassName
    | qualifiedStandardClassName
    ) typeArguments?
;

generalClassOrInterfaceType
options { baseContext = classOrInterfaceType; }

: qualifiedClassName typeArguments?
;

standardClassOrInterfaceType
options { baseContext = classOrInterfaceType; }
: qualifiedStandardClassName typeArguments?
;

primitiveType
: BuiltInPrimitiveType
;

typeArguments
: LT nls typeArgument (COMMA nls typeArgument)* nls GT
;

typeArgument
: type
| annotationsOpt QUESTION ((EXTENDS | SUPER) nls type)?
;

```

annotatedQualifiedClassName
: annotationsOpt qualifiedClassName
;

qualifiedClassNameList
: annotatedQualifiedClassName (COMMA nls annotatedQualifiedClassName)*
;

formalParameters
: LPAREN formalParameterList? rparen
;

formalParameterList
: (formalParameter | thisFormalParameter) (COMMA nls formalParameter)*
;

thisFormalParameter
: type THIS
;

formalParameter
: variableModifiersOpt type? ELLIPSIS? variableDeclaratorId (nls ASSIGN nls expression)?
;

methodBody
: block
;

qualifiedName
: qualifiedNameElement
(DOT qualifiedNameElement)*
;

/**

* Java doesn't have the keywords 'as', 'in', 'def', 'trait' so we make some allowances

* for them in package names for better integration with existing Java packages

*/

qualifiedNameElement
: identifier
| DEF
| IN
| AS
| TRAIT
;

qualifiedNameElements
: (qualifiedNameElement DOT)*

```

;

qualifiedClassName
: qualifiedNameElements identifier
;

qualifiedStandardClassName
: qualifiedNameElements className (DOT className)*
;

literal
: IntegerLiteral                                #integerLiteralAlt
| FloatingPointLiteral                          #floatingPointLiteralAlt
| stringLiteral                                #stringLiteralAlt
| BooleanLiteral                               #booleanLiteralAlt
| NullLiteral                                  #nullLiteralAlt
;

// GSTRING

gstring
: GStringBegin gstringValue (GStringPart gstringValue)* GStringEnd
;

gstringValue
: gstringPath
| closure
;

gstringPath
: identifier GStringPathPart*
;

// LAMBDA EXPRESSION
lambdaExpression
options { baseContext = standardLambdaExpression; }
: lambdaParameters nls ARROW nls lambdaBody
;

// JAVA STANDARD LAMBDA EXPRESSION
standardLambdaExpression
: standardLambdaParameters nls ARROW nls lambdaBody
;

lambdaParameters
options { baseContext = standardLambdaParameters; }

```

```

: formalParameters

// { a -> a * 2 } can be parsed as a lambda expression in a block, but we expect a closure.
// So it is better to put parameters in the parentheses and the following single parameter without parentheses is
limited
// | variableDeclaratorId
;

standardLambdaParameters
: formalParameters
|
variableDeclaratorId
;

lambdaBody
: block
| statementExpression
;

// CLOSURE
closure
: LBRACE (nls (formalParameterList nls)? ARROW)? sep? blockStatementsOpt RBRACE
;

// GROOVY-8991: Difference in behaviour with closure and lambda
closureOrLambdaExpression
: closure
| lambdaExpression
;

blockStatementsOpt
: blockStatements?
;

blockStatements
: blockStatement (sep blockStatement)* sep?
;

// ANNOTATIONS

annotationsOpt
: (annotation (nls annotation)* nls)?
;

annotation
: AT annotationName (nls LPAREN elementValues? rparen)?
;

```



```

elementValues
    : elementValuePairs
    | elementValue
    ;

annotationName : qualifiedClassName ;

elementValuePairs
    : elementValuePair (COMMA elementValuePair)*
    ;

elementValuePair
    : elementValuePairName nls ASSIGN nls elementValue
    ;

elementValuePairName
    : identifier
    | keywords
    ;

// TODO verify the potential performance issue
// because rule expression contains sub-rule assignments(https://github.com/antlr/grammars-v4/issues/215)
elementValue
    : elementValueArrayInitializer
    | annotation
    | expression
    ;

elementValueArrayInitializer
    : LBRAK (elementValue (COMMA elementValue)* COMMA)? RBRAK
    ;

// STATEMENTS / BLOCKS

block
    : LBRAK sep? blockStatementsOpt RBRAK
    ;

blockStatement
    : localVariableDeclaration
    | statement
    ;

localVariableDeclaration
    : { !SemanticPredicates.isInvalidLocalVariableDeclaration(_input) }?
      variableDeclaration[0]
    ;

```

```

/**
 * t 0: local variable declaration; 1: field declaration
 */
variableDeclaration[int t]
    : modifiers nls
      ( type? variableDeclarators
        | typeNamePairs nls ASSIGN nls variableInitializer
        )
    |
      type variableDeclarators
    ;

typeNamePairs
    : LPAREN typeNamePair (COMMA typeNamePair)* rparen
    ;

typeNamePair
    : type? variableDeclaratorId
    ;

variableNames
    : LPAREN variableDeclaratorId (COMMA variableDeclaratorId)+ rparen
    ;

conditionalStatement
    : ifElseStatement
    | switchStatement
    ;

ifElseStatement
    : IF expressionInPar nls tb=statement ((nls | sep) ELSE nls fb=statement)?
    ;

switchStatement
    : SWITCH expressionInPar nls LBRACE nls (switchBlockStatementGroup+ nls)? RBRACE
    ;

loopStatement
    : FOR LPAREN forControl rparen nls statement #forStmtAlt
    | WHILE expressionInPar nls statement #whileStmtAlt
    | DO nls statement nls WHILE expressionInPar #doWhileStmtAlt
    ;

continueStatement
    : CONTINUE
      identifier?
    ;

```

breakStatement

: BREAK
 identifier?
;

tryCatchStatement

: TRY resources? nls block
 (nls catchClause)*
 (nls finallyBlock)?
;

assertStatement

: ASSERT ce=expression (nls (COLON | COMMA) nls me=expression)?
;

statement

: block	#blockStmtAlt
conditionalStatement	#conditionalStmtAlt
loopStatement	#loopStmtAlt
tryCatchStatement	#tryCatchStmtAlt
SYNCHRONIZED expressionInPar nls block	#synchronizedStmtAlt
RETURN expression?	#returnStmtAlt
THROW expression	#throwStmtAlt
breakStatement	#breakStmtAlt
continueStatement	#continueStmtAlt
identifier COLON nls statement	#labeledStmtAlt
assertStatement	#assertStmtAlt
localVariableDeclaration	#localVariableDeclarationStmtAlt
statementExpression	#expressionStmtAlt
SEMI	#emptyStmtAlt
;	

catchClause

: CATCH LPAREN variableModifiersOpt catchType? identifier rparen nls block
;

catchType

: qualifiedClassName
(BITOR qualifiedClassName)*
;

finallyBlock

: FINALLY nls block
;

resources

: LPAREN nls resourceList sep? rparen

```

;

resourceList
: resource (sep resource)*
;

resource
: localVariableDeclaration
| expression
;

/** Matches cases then statements, both of which are mandatory.
 * To handle empty cases at the end, we add switchLabel* to statement.
 */
switchBlockStatementGroup
: switchLabel (nls switchLabel)* nls blockStatements
;

switchLabel
: CASE expression COLON
| DEFAULT COLON
;

forControl
: enhancedForControl
| classicalForControl
;

enhancedForControl
: variableModifiersOpt type? variableDeclaratorId (COLON | IN) expression
;

classicalForControl
: forInit? SEMI expression? SEMI forUpdate?
;

forInit
: localVariableDeclaration
| expressionList[false]
;

forUpdate
: expressionList[false]
;

// EXPRESSIONS

```

```

castParExpression
:
LPAREN type rparen
;

parExpression
: expressionInPar
;

expressionInPar
: LPAREN enhancedStatementExpression rparen
;

expressionList[boolean canSpread]
: expressionListElement[$canSpread] (COMMA expressionListElement[$canSpread])*
;

expressionListElement[boolean canSpread]
: MUL? expression
;

enhancedStatementExpression
: statementExpression
| standardLambdaExpression
;

statementExpression
: commandExpression #commandExprAlt
;

postfixExpression
: pathExpression op=(INC | DEC)?
;

expression
// must come before postfixExpression to resolve the ambiguities between casting and call on parentheses
expression, e.g. (int)(1 / 2)
: castParExpression castOperandExpression #castExprAlt

// qualified names, array expressions, method invocation, post inc/dec
| postfixExpression
#postfixExprAlt

// ~(BNOT)/!(LNOT) (level 1)
| (BITNOT | NOT) nls expression #unaryNotExprAlt

// math power operator (**) (level 2)

```

```

| left=expression op=POWER nls right=expression                                #powerExprAlt

// ++(prefix)/--(prefix)/(unary)/(unary) (level 3)
| op=(INC | DEC | ADD | SUB) expression                                        #unaryAddExprAlt

// multiplication/division/modulo (level 4)
| left=expression nls op=(MUL | DIV | MOD) nls right=expression                #multiplicativeExprAlt

// binary addition/subtraction (level 5)
| left=expression op=(ADD | SUB) nls right=expression                        #additiveExprAlt

// bit shift expressions (level 6)
| left=expression nls
  (
    ( dlOp=LT LT
      | tgOp=GT GT GT
      | dgOp=GT GT
    )
    | rangeOp=( RANGE_INCLUSIVE
      | RANGE_EXCLUSIVE
    )
  ) nls
right=expression                                                                #shiftExprAlt

// boolean relational expressions (level 7)
| left=expression nls op=(AS | INSTANCEOF | NOT_INSTANCEOF) nls type            #relationalExprAlt
| left=expression nls op=(LE | GE | GT | LT | IN | NOT_IN) nls right=expression #relationalExprAlt

// equality/inequality (==/!=) (level 8)
| left=expression nls
  op=( IDENTICAL
    | NOT_IDENTICAL
    | EQUAL
    | NOTEQUAL
    | SPACESHIP
  ) nls
right=expression                                                                #equalityExprAlt

// regex find and match ( =~ and ==~ ) (level 8.5)
// jez: moved =~ closer to precedence of == etc, as...

// 'if (foo =~ "a.c")' is very close in intent to 'if (foo == "abc")'
| left=expression nls op=(REGEX_FIND | REGEX_MATCH) nls right=expression        #regexExprAlt

// bitwise or non-short-circuiting and (&) (level 9)
| left=expression nls op=BITAND nls right=expression                          #andExprAlt

// exclusive or (^) (level 10)

```

```

| left=expression nls op=XOR nls right=expression                                #exclusiveOrExprAlt

// bitwise or non-short-circuiting or (|) (level 11)
| left=expression nls op=BITOR nls right=expression                            #inclusiveOrExprAlt

// logical and (&&) (level 12)
| left=expression nls op=AND nls right=expression                             #logicalAndExprAlt

// logical or (||) (level 13)
| left=expression nls op=OR nls right=expression                             #logicalOrExprAlt

// conditional test (level 14)
| <assoc=right>
con=expression nls
  ( QUESTION nls tb=expression nls COLON nls
  | ELVIS nls
  )
  fb=expression                                                                #conditionalExprAlt

// assignment expression (level 15)
// "(a) = [1]" is a special case of multipleAssignmentExprAlt, it will be handle by assignmentExprAlt
| <assoc=right> left=variableNames nls op=ASSIGN nls right=statementExpression
#multipleAssignmentExprAlt
| <assoc=right> left=expression nls
  op=( ASSIGN
  | ADD_ASSIGN
  | SUB_ASSIGN
  | MUL_ASSIGN
  | DIV_ASSIGN
  | AND_ASSIGN
  | OR_ASSIGN
  | XOR_ASSIGN
  | RSHIFT_ASSIGN
  | URSHIFT_ASSIGN
  | LSHIFT_ASSIGN
  | MOD_ASSIGN
  | POWER_ASSIGN
  | ELVIS_ASSIGN
  ) nls
  enhancedStatementExpression                                                #assignmentExprAlt
;

castOperandExpression
options { baseContext = expression; }
: castParExpression castOperandExpression                                    #castExprAlt

| postfixExpression                                                            #postfixExprAlt

```

```

// ~(BNOT)! (LNOT)
| (BITNOT | NOT) nls castOperandExpression                                #unaryNotExprAlt

// ++(prefix)--(prefix)/(unary)/(unary)
| op=(INC | DEC | ADD | SUB) castOperandExpression                        #unaryAddExprAlt
;

commandExpression
: expression
(
    { !SemanticPredicates.isFollowingArgumentsOrClosure($expression.ctx) }?
    argumentList
|
    /* if pathExpression is a method call, no need to have any more arguments */
)

commandArgument*
;

commandArgument
: commandPrimary
    // what follows is either a normal argument, parens,
    // an appended block, an index operation, or nothing
    // parens (a b already processed):
    //   a b c() d e -> a(b).c().d(e)
    //   a b c()() d e -> a(b).c().call().d(e)
    // index (a b already processed):
    //   a b c[x] d e -> a(b).c[x].d(e)
    //   a b c[x][y] d e -> a(b).c[x][y].d(e)
    // block (a b already processed):
    //   a b c {x} d e -> a(b).c({x}).d(e)
    //
    // parens/block completes method call
    // index makes method call to property get with index
    //
    ( pathElement+
    | argumentList
    )?
;

/**
* A "path expression" is a name or other primary, possibly qualified by various
* forms of dot, and/or
* followed by various kinds of brackets.
* It can be used for value or assigned to, or else further qualified, indexed, or called.
* It is called a "path" because it looks like a linear path through a data structure.
* Examples: x.y, x?.y, x*.y, x.@y; x[], x[y], x[y,z]; x(), x(y), x(y,z); x{s}; a.b[n].c(x).d{s}
* (Compare to a C lvalue, or LeftHandSide in the JLS section 15.26.)

```



```

* General expressions are built up from path expressions, using operators like '+' and '='.
*
* t 0: primary, 1: namePart, 2: arguments, 3: closureOrLambdaExpression, 4: indexPropertyArgs, 5:
namedPropertyArgs,
* 6: non-static inner class creator
*/
pathExpression returns [int t]
: (
    primary
  |
    // if 'static' followed by DOT, we can treat them as identifiers, e.g. static.unused = { -> }
    { _input.LT(2).getType() == DOT }?
    STATIC
  ) (pathElement { $t = $pathElement.t; })*
;

pathElement returns [int t]
: nls

(
    DOT nls NEW creator[1]
    { $t = 6; }
  |
    // AT: foo.@bar selects the field (or attribute), not property
    (
      ( DOT // The all-powerful dot.
      | SPREAD_DOT // Spread operator: x*.y === x?.collect{it.y}
      | SAFE_DOT // Optional-null operator: x?.y === (x==null)?null:x.y
      | SAFE_CHAIN_DOT // Optional-null chain operator: x??y.z === x?.y?.z
      ) nls (AT | nonWildcardTypeArguments)?
    |
      METHOD_POINTER nls // Method pointer operator: foo.&y == foo.metaClass.getMethodPointer(foo,
"y")
    |
      METHOD_REFERENCE nls // Method reference: System.out::println
    )
    namePart
    { $t = 1; }

    // Can always append a block, as foo{bar}
  | closureOrLambdaExpression
    { $t = 3; }
  )

  | arguments

  { $t = 2; }

```

```

// Element selection is always an option, too.
// In Groovy, the stuff between brackets is a general argument list,
// since the bracket operator is transformed into a method call.
| indexPropertyArgs
  { $t = 4; }

| namedPropertyArgs
  { $t = 5; }
;

/**
 * This is the grammar for what can follow a dot: x.a, x.@a, x.&a, x.'a', etc.
 */
namePart
:
  ( identifier

    // foo.'bar' is in all ways same as foo.bar, except that bar can have an arbitrary spelling
    | stringLiteral

    | dynamicMemberName

    /* just a PROPOSAL, which has not been implemented yet!
    // PROPOSAL, DECIDE: Is this inline form of the 'with' statement useful?
    // Definition: a.{foo} == {with(a) {foo}}
    // May cover some path expression use-cases previously handled by dynamic scoping (closure delegates).
    | block
    */

    // let's allow common keywords as property names
    |
  keywords
  )
;

/**
 * If a dot is followed by a parenthesized or quoted expression, the member is computed dynamically,
 * and the member selection is done only at runtime. This forces a statically unchecked member access.
 */
dynamicMemberName
: parExpression
| gstring
;

/** An expression may be followed by [...].
 * Unlike Java, these brackets may contain a general argument list,
 * which is passed to the array element operator, which can make of it what it wants.
 * The brackets may also be empty, as in T[]. This is how Groovy names array types.

```

```

*/
indexPropertyArgs
: QUESTION? LBRACK expressionList[true]? RBRACK
;

namedPropertyArgs
: QUESTION? LBRACK (namedPropertyArgList | COLON) RBRACK
;

primary
:
    // Append `typeArguments?` to `identifier` to support constructor reference with generics, e.g.
    // Though this is not a graceful solution, it is much faster than replacing `builtInType`
    // with `type`
    identifier typeArguments?                                #identifierPrmrAlt
| literal                                                    #literalPrmrAlt
| gstring                                                    #gstringPrmrAlt
| NEW nls creator[0]                                         #newPrmrAlt
| THIS                                                       #thisPrmrAlt
| SUPER                                                      #superPrmrAlt
| parExpression                                              #parenPrmrAlt
| closureOrLambdaExpression                                #closureOrLambdaExpressionPrmrAlt
| list                                                       #listPrmrAlt
| map                                                        #mapPrmrAlt
| builtInType                                                #builtInTypePrmrAlt
;

namedPropertyArgPrimary
options { baseContext = primary; }
: identifier                                                #identifierPrmrAlt
| literal                                                    #literalPrmrAlt
| gstring                                                    #gstringPrmrAlt
| parExpression                                              #parenPrmrAlt
| list                                                       #listPrmrAlt
| map                                                        #mapPrmrAlt
;

namedArgPrimary
options { baseContext = primary; }
: identifier                                                #identifierPrmrAlt
| literal                                                    #literalPrmrAlt
| gstring                                                    #gstringPrmrAlt
;

commandPrimary
options { baseContext = primary; }

```

```

: identifier                                #identifierPrmrAlt
| literal                                #literalPrmrAlt
| gstring                                #gstringPrmrAlt
;

list
: LBRACK expressionList[true]? COMMA? RBRACK
;

map
: LBRACK
  ( mapEntryList COMMA?
    | COLON
  )
  RBRACK
;

mapEntryList
: mapEntry (COMMA mapEntry)*
;

namedPropertyArgList
options { baseContext = mapEntryList; }
: namedPropertyArg
(COMMA namedPropertyArg)*
;

mapEntry
: mapEntryLabel COLON nls expression
| MUL COLON nls expression
;

namedPropertyArg
options { baseContext = mapEntry; }
: namedPropertyArgLabel COLON nls expression
| MUL COLON nls expression
;

namedArg
options { baseContext = mapEntry; }
: namedArgLabel COLON nls expression
| MUL COLON nls expression
;

mapEntryLabel
: keywords
| primary
;

```

```

namedPropertyArgLabel
options { baseContext = mapEntryLabel; }
  : keywords
  | namedPropertyArgPrimary
  ;

namedArgLabel
options { baseContext = mapEntryLabel; }
  : keywords
  | namedArgPrimary
  ;

/**
 * t 0: general creation; 1: non-static inner class creation
 */
creator[int t]
  : createdName
    ( nls arguments anonymousInnerClassDeclaration[0]?
    | dim+ (nls arrayInitializer)?
    )
  ;

dim
  : annotationsOpt LBRACK expression? RBRACK
  ;

arrayInitializer
  : LBRACE nls (variableInitializers
nls)? RBRACE
  ;

/**
 * t 0: anonymous inner class; 1: anonymous enum
 */
anonymousInnerClassDeclaration[int t]
  : classBody[0]
  ;

createdName
  : annotationsOpt
    ( primitiveType
    | qualifiedClassName typeArgumentsOrDiamond?
    )
  ;

nonWildcardTypeArguments
  : LT nls typeList nls GT

```

```

;

typeArgumentsOrDiamond
: LT GT
| typeArguments
;

arguments
: LPAREN enhancedArgumentListInPar? COMMA? rparen
;

argumentList
options { baseContext = enhancedArgumentListInPar; }
: firstArgumentListElement
  ( COMMA nls
    argumentListElement
  )*
;

enhancedArgumentList
options { baseContext = enhancedArgumentListInPar; }
: firstEnhancedArgumentListElement
  ( COMMA nls
    enhancedArgumentListElement
  )*
;

enhancedArgumentListInPar
: enhancedArgumentListElement
  ( COMMA nls
    enhancedArgumentListElement
  )*
;

firstArgumentListElement
options { baseContext = enhancedArgumentListElement; }
: expressionListElement[true]
| namedArg
;

argumentListElement
options { baseContext = enhancedArgumentListElement; }
: expressionListElement[true]
| namedPropertyArg
;

firstEnhancedArgumentListElement

```

```
options { baseContext = enhancedArgumentListElement; }
: expressionListElement[true]
| standardLambdaExpression
| namedArg
;
```

```
enhancedArgumentListElement
: expressionListElement[true]
| standardLambdaExpression
| namedPropertyArg
;
```

```
stringLiteral
: StringLiteral
;
```

```
className
: CapitalizedIdentifier
;
```

```
identifier
: Identifier
| CapitalizedIdentifier
| VAR
| IN
// | DEF
| TRAIT
| AS
;
```

```
builtinType
: BuiltInPrimitiveType
| VOID
;
```

```
keywords
: ABSTRACT
| AS
| ASSERT
| BREAK
| CASE
| CATCH
| CLASS
| CONST
| CONTINUE
| DEF
| DEFAULT
| DO
```

- | ELSE
- | ENUM
- | EXTENDS
- | FINAL
- | FINALLY
- | FOR
- | GOTO
- | IF
- | IMPLEMENTS
- | IMPORT
- | IN
- | INSTANCEOF
- | INTERFACE
- | NATIVE
- | NEW
- | PACKAGE
- | RETURN
- | STATIC
- | STRICTFP
- | SUPER
- | SWITCH
- | SYNCHRONIZED
- | THIS
- | THROW
- | THROWS
- | TRANSIENT
- | TRAIT
- | THREADSAFE
- | TRY
- | VAR
- | VOLATILE
- | WHILE

- | NullLiteral
- | BooleanLiteral

- | BuiltInPrimitiveType
- | VOID

- | PUBLIC
- | PROTECTED
- | PRIVATE
- ;

- rparen
- : RPAREN
- ;

nls

: NL*

;

sep : (NL | SEMI)+

;

Found in path(s):

* /groovy-3-0-19-sources-jar/GroovyParser.g4

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* /groovy-3-0-19-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weigher.java

* /groovy-3-0-19-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EvictionListener.java

* /groovy-3-0-19-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weighers.java

*

/groovy-3-0-19-sources-

jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java

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- * /groovy-3-0-19-sources-jar/org/codehaus/groovy/ast/stmt/CatchStatement.java
- * /groovy-3-0-19-sources-jar/org/codehaus/groovy/runtime/metaclass/ClosureMetaMethod.java
- *
- /groovy-3-0-19-sources-jar/groovy/time/BaseDuration.java
- * /groovy-3-0-19-sources-jar/org/codehaus/groovy/transform/sc/transformers/ListExpressionTransformer.java
- * /groovy-3-0-19-sources-jar/org/codehaus/groovy/runtime/memoize/LRUCache.java
- * /groovy-3-0-19-sources-jar/groovy/util/MapEntry.java
- * /groovy-3-0-19-sources-jar/org/codehaus/groovy/control/customizers/builder/PostCompletionFactory.java
- * /groovy-3-0-19-sources-jar/org/codehaus/groovy/runtime/AbstractComparator.java
- * /groovy-3-0-19-sources-jar/org/apache/groovy/parser/antlr4/Antlr4PluginFactory.java
- * /groovy-3-0-19-sources-jar/org/codehaus/groovy/syntax/Reduction.java
- * /groovy-3-0-19-sources-jar/org/codehaus/groovy/tools/javac/RawJavaFileObject.java
- * /groovy-3-0-19-sources-jar/org/codehaus/groovy/ast/expr/RangeExpression.java
- * /groovy-3-0-19-sources-jar/org/codehaus/groovy/transform/tailrec/VariableExpressionReplacer.groovy
- * /groovy-3-0-19-sources-jar/groovy/lang/Mixin.java
- *
- /groovy-3-0-19-sources-jar/org/codehaus/groovy/ast/expr/UnaryMinusExpression.java
- * /groovy-3-0-19-sources-jar/org/codehaus/groovy/util/AbstractConcurrentMap.java
- * /groovy-3-0-19-sources-jar/org/apache/groovy/parser/antlr4/SyntaxErrorReportable.java
- * /groovy-3-0-19-sources-jar/org/codehaus/groovy/ast/expr/Expression.java
- * /groovy-3-0-19-sources-jar/org/codehaus/groovy/control/CompilationUnit.java

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```

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* /groovy-3-0-19-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/package-info.java

* /groovy-3-0-19-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/LinkedDeque.java

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global transformation to handle @Grab annotation

groovy.grape.GrabAnnotationTransformation

Found in path(s):

* /groovy-3-0-19-sources-jar/META-INF/services/org.codehaus.groovy.transform.ASTTransformation

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Found in path(s):

```

* /groovy-3-0-19-sources-jar/groovy/io/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/tools/xml/package.html
*
/groovy-3-0-19-sources-jar/org/codehaus/groovy/control/messages/package.html
* /groovy-3-0-19-sources-jar/groovy/time/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/ast/stmt/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/control/io/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/package.html
* /groovy-3-0-19-sources-jar/groovy/lang/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/runtime/wrappers/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/vmplugin/v5/package.html
* /groovy-3-0-19-sources-jar/overview.html
* /groovy-3-0-19-sources-jar/overviewj.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/ast/expr/package.html
* /groovy-3-0-19-sources-jar/groovy/util/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/runtime/typehandling/package.html
* /groovy-3-0-19-sources-jar/groovy/inspect/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/tools/javac/package.html
*
/groovy-3-0-19-sources-jar/org/codehaus/groovy/antlr/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/syntax/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/antlr/treewalker/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/classgen/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/reflection/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/control/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/runtime/package.html
* /groovy-3-0-19-sources-jar/groovy/security/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/vmplugin/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/tools/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/runtime/metaclass/package.html
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/ast/package.html
* /groovy-3-0-19-sources-jar/groovy/grape/defaultGrapeConfig.xml
* /groovy-3-0-19-sources-jar/org/codehaus/groovy/classgen/asm/package.html
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```

/** JSR-241 Groovy Recognizer.

```

*
* Run 'java Main [-showtree] directory-full-of-groovy-files'
*
* [The -showtree option pops up a Swing frame that shows
*  the AST constructed from the parser.]
*
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- *
- * Version 1.00 December 9, 1997 -- initial release
- * Version 1.01 December 10, 1997
- * fixed bug in octal def (0..7 not 0..8)
- * Version 1.10 August 1998 (parrrt)
- * added tree construction
- * fixed definition of WS,comments for mac,pc,unix newlines
- * added unary plus
- * Version 1.11 (Nov 20, 1998)
- * Added "shutup" option to turn off last ambig warning.
- * Fixed inner class def to allow named class defs as statements
- * synchronized requires compound not simple statement
- * add [] after builtInType DOT class in primaryExpression
- * "const" is reserved but not valid..removed from modifiers
- * Version 1.12 (Feb 2, 1999)
- * Changed LITERAL_XXX to xxx in tree
 grammar.
- * Updated java.g to use tokens {...} now for 2.6.0 (new feature).
- *
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- * Removed local interfaces from methods
- * Put instanceof precedence where it belongs...in relationalExpr
- * It also had expr not type as arg; fixed it.
- * Missing ! on SEMI in classBlock
- * fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
- * fixed: didn't like Object[].class in parser or tree parser
- * Version 1.15 (Jun 26, 1999)
- * Screwed up rule with instanceof in it. :(Fixed.
- * Tree parser didn't like (expr).something; fixed.
- * Allowed multiple inheritance
- in tree grammar. oops.
- * Version 1.16 (August 22, 1999)

- * Extending an interface built a wacky tree: had extra EXTENDS.
- * Tree grammar didn't allow multiple superinterfaces.
- * Tree grammar didn't allow empty var initializer: {}
- * Version 1.17 (October 12, 1999)
- * ESC lexer rule allowed 399 max not 377 max.
- * java.tree.g didn't handle the expression of synchronized statements.
- * Version 1.18 (August 12, 2001)
- * Terence updated to Java 2 Version 1.3 by observing/combining work of Allan Jacobs and Steve Messick. Handles 1.3 src. Summary:
- * o primary didn't include boolean.class kind of thing
- * o constructor calls parsed explicitly now: see explicitConstructorInvocation
- * o add strictfp modifier
- * o missing objBlock after new expression in tree grammar
- * o merged local class definition alternatives, moved after declaration
- * o fixed problem with ClassName.super.field
- * o reordered some alternatives to make things more efficient
- * o long and double constants were not differentiated from int/float
- * o whitespace rule was inefficient: matched only one char
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- * o made Main.java use buffered IO and a Reader for Unicode support
- * o supports UNICODE?
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- * Version 1.19 (April 25, 2002)
- * Terence added in nice fixes by John Pybus concerning floating constants and problems with super() calls. John did a nice reorg of the primary/postfix expression stuff to read better
- * and makes f.g.super() parse properly (it was METHOD_CALL not a SUPER_CTOR_CALL). Also:
- * o "finally" clause was a root...made it a child of "try"
- * o Added stuff for asserts too for Java 1.4, but *commented out* as it is not backward compatible.
- * Version 1.20 (October 27, 2002)
- * Terence ended up reorging John Pybus' stuff to remove some nondeterminisms and some syntactic predicates.
- * Note that the grammar is stricter now; e.g., this(...) must be the first statement.
- * Trinary ?: operator wasn't working as array name:

- * (isBig ? bigDigits : digits)[i];
- *
- * Checked parser/tree parser on source for
- * Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
- * and the 110k-line jGuru server source.
- *
- * Version 1.21 (October 17, 2003)
- * Fixed lots of problems including:
 - * Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
 - * He found a problem/fix with floating point that start with 0
 - * Ray also fixed problem that (int.class) was not recognized.
 - * Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
 - * TJP fixed CHAR_LITERAL analogously.
- *
- * Version 1.21.2 (March, 2003)
- * Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
- * Notes:
 - * o We only allow the "extends" keyword and not the "implements"
 - * keyword, since that's what JSR14 seems to imply.
 - * o Thanks to Monty Zukowski for his help on the antlr-interest
 - * mail list.
 - * o Thanks to Alan Eliassen for testing the grammar over his
 - * Fink source base
- *
- * Version 1.22 (July, 2004)
- * Changes by Michael Studman to support Java 1.5 language extensions
- * Notes:
 - * o Added support for annotations types
 - * o Finished off Matt Quail's generics
 enhancements to support bound type arguments
 - * o Added support for new for statement syntax
 - * o Added support for static import syntax
 - * o Added support for enum types
 - * o Tested against JDK 1.5 source base and source base of jdigraph project
 - * o Thanks to Matt Quail for doing the hard part by doing most of the generics work
- *
- * Version 1.22.1 (July 28, 2004)
- * Bug/omission fixes for Java 1.5 language support
 - * o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
 - * spotting this
 - * o Fixed bug where incorrect handling of SR and BSR tokens would cause type
 - * parameters to be recognised as type arguments.
 - * o Enabled type parameters on constructors, annotations on enum constants
 - * and package definitions
 - * o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
- *
- * Version 1.22.2 (July 28, 2004)

- * Slight refactoring of Java 1.5 language support
- * o Refactored for/"foreach" productions so that original literal "for" literal
- * is still used but the for sub-clauses vary by token type
- * o Fixed bug where type parameter was not included in generic constructor's branch of AST
- *
- * Version 1.22.3 (August 26, 2004)
- * Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
- * and other refactorings
- * o Fixed typeParameters omission in identPrimary and newStatement
- * o Replaced GT reconciliation code with simple semantic predicate
- * o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
- * o Refactored typeDefinition production and field productions to reduce duplication
- *
- * Version 1.22.4 (October 21, 2004)
- * Small bux fixes
- * o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
- * o Added typeArguments to postfixExpression
- productions for anonymous inner class super
- * constructor invocation, e.g. new Outer().<String>super()
- * o Fixed bug in array declarations identified by Geoff Roy
- *
- * Version 1.22.4.g.1
- * o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
- * and have applied the groovy.diff from java.g (1.22) by John Rose
- * back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)
- *
- * Version 1.22.4.g.2
- * o mkempff, rkleeb, Dec 2007
- * o fixed various rules so that they call the correct Create Method
- * to make sure that the line information are correct
- *
- * Based on an original grammar released in the PUBLIC DOMAIN
- */

Found in path(s):

* /groovy-3-0-19-sources-jar/org/codehaus/groovy/antlr/parser/GroovyRecognizer.java

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/** Java 1.5 Recognizer

*

* Run 'java Main [-showtree] directory-full-of-java-files'

*

* [The -showtree option pops up a Swing frame that shows

* the AST constructed from the parser.]

*

* Run 'java Main <directory full of java files>'

*

* Contributing authors:

- * Jeremy Rayner groovy@ross-rayner.com
- * John Mitchell johnm@non.net
- * Terence Parr parrt@magelang.com
- * John Lilley jlilley@empathy.com
- * Scott Stanchfield thetick@magelang.com
- * Markus Mohnen mohnen@informatik.rwth-aachen.de
- * Peter Williams pete.williams@sun.com
- * Allan Jacobs Allan.Jacobs@eng.sun.com
- * Steve Messick messick@redhills.com
- * John Pybus john@pybus.org
- *
- * Version 1.00 December 9, 1997 -- initial release
- * Version 1.01 December 10, 1997
- * fixed bug in octal def (0..7 not 0..8)
- * Version 1.10 August 1998 (parrt)
- * added tree construction
- * fixed definition of WS, comments for mac, pc, unix newlines
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- * Version 1.11 (Nov 20, 1998)
- * Added "shutup" option to turn off last ambig warning.
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- *
- * Version 1.22.4.j.1
- * Changes by Jeremy Rayner to support java2groovy tool
- * o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
- * and have made some changes to enable use by java2groovy tool (Jan 2007)
- *
- * Based on an original grammar released in the PUBLIC DOMAIN
- */

Found in path(s):

- * /groovy-3-0-19-sources-jar/org/codehaus/groovy/antlr/java/JavaRecognizer.java

1.165 groovy-xml 3.0.19

1.165.1 Available under license :

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- * /groovy-xml-3-0-19-sources-jar/groovy/util/slurpersupport/package.html
- *
- /groovy-xml-3-0-19-sources-jar/groovy/xml/dom/package.html
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/streamingmarkupsupport/package.html
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/package.html
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/slurpersupport/package.html

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Found in path(s):

- * /groovy-xml-3-0-19-sources-jar/groovy/xml/NamespaceBuilder.java
- * /groovy-xml-3-0-19-sources-jar/groovy/util/slurpersupport/NodeChild.java
- *
- /groovy-xml-3-0-19-sources-jar/groovy/xml/slurpersupport/FilteredAttributes.java
- * /groovy-xml-3-0-19-sources-jar/groovy/util/slurpersupport/Attributes.java
- * /groovy-xml-3-0-19-sources-jar/groovy/util/slurpersupport/Node.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/markupsupport/StandardXmlAttributeFilter.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/slurpersupport/NamespaceAwareHashMap.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/Entity.groovy
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/streamingmarkupsupport/BaseMarkupBuilder.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/slurpersupport/GPathResult.java

- * /groovy-xml-3-0-19-sources-jar/groovy/xml/slurpersupport/NodeChild.java
- * /groovy-xml-3-0-19-sources-jar/org/apache/groovy/xml/tools/DomToGroovy.java
- * /groovy-xml-3-0-19-sources-jar/groovy/util/slurpersupport/NodeChildren.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/XmlNodePrinter.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/slurpersupport/NoChildren.java
- *
- /groovy-xml-3-0-19-sources-jar/groovy/util/slurpersupport/NodeIterator.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/markupsupport/DoubleQuoteFilter.java
- * /groovy-xml-3-0-19-sources-jar/groovy/util/XmlSlurper.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/slurpersupport/Node.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/XmlParserFactory.groovy
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/StreamingMarkupBuilder.groovy
- * /groovy-xml-3-0-19-sources-jar/groovy/util/slurpersupport/NodeParents.java
- * /groovy-xml-3-0-19-sources-jar/groovy/util/slurpersupport/NamespaceAwareHashMap.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/StaxBuilder.groovy
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/slurpersupport/Attribute.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/slurpersupport/NodeChildren.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/XmlParser.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/markupsupport/AllControlToUndefined.java
- *
- /groovy-xml-3-0-19-sources-jar/groovy/xml/slurpersupport/NodeIterator.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/Namespace.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/markupsupport/SurrogateToUndefined.java
- * /groovy-xml-3-0-19-sources-jar/groovy/util/XmlParser.java
- * /groovy-xml-3-0-19-sources-jar/groovy/util/slurpersupport/Attribute.java
- * /groovy-xml-3-0-19-sources-jar/groovy/util/slurpersupport/FilteredAttributes.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/markupsupport/SingleQuoteFilter.java
- * /groovy-xml-3-0-19-sources-jar/groovy/util/slurpersupport/FilteredNodeChildren.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/DOMBuilder.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/slurpersupport/FilteredNodeChildren.java
- * /groovy-xml-3-0-19-sources-jar/org/apache/groovy/xml/extensions/XmlExtensions.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/StreamingDOMBuilder.groovy
- * /groovy-xml-3-0-19-sources-jar/groovy/util/slurpersupport/ReplacementNode.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/XmlUtil.java
- *
- /groovy-xml-3-0-19-sources-jar/groovy/util/slurpersupport/GPathResult.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/NamespaceBuilderSupport.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/markupsupport/StandardControlToUndefined.java
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- * /groovy-xml-3-0-19-sources-jar/groovy/xml/StreamingSAXBuilder.groovy
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/XmlSlurper.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/MarkupBuilder.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/FactorySupport.java
- * /groovy-xml-3-0-19-sources-jar/org/codehaus/groovy/tools/xml/DomToGroovy.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/dom/DOMCategory.java
- * /groovy-xml-3-0-19-sources-jar/groovy/xml/MarkupBuilderHelper.java

```
* /groovy-xml-3-0-19-sources-jar/groovy/util/XmlUtil.java
*
/groovy-xml-3-0-19-sources-jar/groovy/util/slurpersupport/NoChildren.java
* /groovy-xml-3-0-19-sources-jar/groovy/xml/markupsupport/StandardXmlFilter.java
* /groovy-xml-3-0-19-sources-jar/groovy/xml/streamingmarkupsupport/AbstractStreamingBuilder.groovy
* /groovy-xml-3-0-19-sources-jar/groovy/xml/SAXBuilder.java
* /groovy-xml-3-0-19-sources-jar/groovy/xml/streamingmarkupsupport/StreamingMarkupWriter.java
* /groovy-xml-3-0-19-sources-jar/groovy/xml/XmlSlurperFactory.groovy
* /groovy-xml-3-0-19-sources-jar/groovy/xml/slurpersupport/Attributes.java
* /groovy-xml-3-0-19-sources-jar/groovy/xml/slurpersupport/ReplacementNode.java
* /groovy-xml-3-0-19-sources-jar/org/codehaus/groovy/runtime/XmlGroovyMethods.java
```

1.166 groovy-json 3.0.19

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#
org.apache.groovy.json.DefaultFastStringServiceFactory
```

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```
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- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/SimpleCache.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/BaseJsonParser.java
- *
- /groovy-json-3-0-19-sources-jar/groovy/json/JsonTokenType.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/CharSequenceValue.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/CharacterSource.java
- * /groovy-json-3-0-19-sources-jar/groovy/json/JsonParser.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/ValueList.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/CacheType.java
- * /groovy-json-3-0-19-sources-jar/groovy/json/JsonBuilder.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/MapItemValue.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/LazyMap.java
- * /groovy-json-3-0-19-sources-jar/groovy/json/JsonToken.java
- * /groovy-json-3-0-19-sources-jar/groovy/json/JsonSlurper.java
- * /groovy-json-3-0-19-sources-jar/groovy/json/JsonGenerator.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/ArrayUtils.java
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- /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/Type.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/Value.java
- * /groovy-json-3-0-19-sources-jar/groovy/json/DefaultJsonGenerator.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/JsonParserUsingCharacterSource.java
- * /groovy-json-3-0-19-sources-jar/groovy/json/JsonLexer.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/JsonFastParser.java
- * /groovy-json-3-0-19-sources-jar/groovy/json/JsonSlurperClassic.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/FastStringServiceFactory.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/Chr.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/FastStringUtils.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/LazyValueMap.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/ValueMap.java
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- /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/ReaderCharacterSource.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/ValueContainer.java
- * /groovy-json-3-0-19-sources-jar/groovy/json/StringEscapeUtils.java
- * /groovy-json-3-0-19-sources-jar/groovy/json/JsonException.java

- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/ByteScanner.java
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- * /groovy-json-3-0-19-sources-jar/groovy/json/StreamingJsonBuilder.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/JsonStringDecoder.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/NumberValue.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/JsonParserCharArray.java
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- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/DefaultFastStringServiceFactory.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/ValueMapImpl.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/JsonParserLax.java
- * /groovy-json-3-0-19-sources-jar/groovy/json/JsonDelegate.java
- * /groovy-json-3-0-19-sources-jar/org/apache/groovy/json/internal/CharScanner.java
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* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/AopProxyUtils.java
*
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/AopUtils.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/autoproxy/AbstractAutoProxyCreator.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJExpressionPointcut.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/annotation/AnnotationMatchingPointcut.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/ProxyFactoryBean.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/interceptor/AsyncExecutionAspectSupport.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
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jar/org/springframework/aop/support/DelegatePerTargetObjectIntroductionInterceptor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/AbstractExpressionPointcut.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectInstanceFactory.java
*
/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/interceptor/JamonPerformanceMonitorInterceptor.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/Advisor.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/annotation/LazySingletonAspectInstanceFactoryDecorator.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/AbstractGenericPointcutAdvisor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/AspectComponentDefinition.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJExpressionPointcutAdvisor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/interceptor/PerformanceMonitorInterceptor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/DefaultPointcutAdvisor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/MethodLocatingFactoryBean.java
*
/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/annotation/AnnotationAwareAspectJAutoProxyCreator.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/autoproxy/InfrastructureAdvisorAutoProxyCreator.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/ExpressionPointcut.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/AbstractPointcutAdvisor.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java
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* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/interceptor/SimpleAsyncUncaughtExceptionHandler.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/adaptor/DefaultAdvisorAdapterRegistry.java
*
/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/annotation/NotAnAtAspectException.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java
* /spring-aop-5-3-29-sources-1-jar/org/aopalliance/aop/AspectException.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/DynamicMethodMatcher.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/MethodBeforeAdvice.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/AdvisorChainFactory.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/StaticMethodMatcherPointcutAdvisor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJPointcutAdvisor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/AdvisorComponentDefinition.java
*
/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/ProxyProcessorSupport.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/RuntimeTestWalker.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/autoproxy/BeanFactoryAdvisorRetrievalHelper.java
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* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java
* /spring-aop-5-3-29-sources-1-jar/org/aopalliance/intercept/MethodInterceptor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/AopConfigUtils.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java
*

```

```

/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java
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* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/autoproxy/AbstractBeanFactoryAwareAdvisingPostProcessor.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java
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/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/RegexpMethodPointcutAdvisor.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/CommonsPool2TargetSource.java
* /spring-aop-5-3-29-sources-1-jar/org/aopalliance/intercept/ConstructorInvocation.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/IntroductionAwareMethodMatcher.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/TargetSource.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/TrueMethodMatcher.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/TruePointcut.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java
*
/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/TrueClassFilter.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/StaticMethodMatcher.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java
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* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/AfterAdvice.java

* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/SpringProxy.java

*

/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/AdvisedSupportListener.java

* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/BeforeAdvice.java

* /spring-aop-5-3-29-sources-1-

jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java

* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/AopInfrastructureBean.java

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* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterThrowingAdvice.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
*
/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceInterceptor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/PointcutEntry.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/interceptor/DebugInterceptor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/DelegatingIntroductionInterceptor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/interceptor/ConcurrencyThrottleInterceptor.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/adapter/AfterReturningAdviceInterceptor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJAroundAdvice.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java
*
/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/autoproxy/BeanNameAutoProxyCreator.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/Advised.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/adapter/ThrowsAdviceInterceptor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/AdviceEntry.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/AspectEntry.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/AdvisorEntry.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/interceptor/ExposeInvocationInterceptor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/interceptor/SimpleTraceInterceptor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/AopNamespaceHandler.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/interceptor/AbstractTraceInterceptor.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
*
/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/autoproxy/AspectJPrecedenceComparator.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/ProxyCreatorSupport.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJProxyUtils.java
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 * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/ProxyFactory.java
 * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java
 *
 * /spring-aop-5-3-29-sources-1-jar/org/aopalliance/intercept/MethodInvocation.java
 * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
 * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
 * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java
 * /spring-aop-5-3-29-sources-1-jar/org/aopalliance/intercept/ConstructorInterceptor.java
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* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/TargetClassAware.java
*
/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/ProxyMethodInvocation.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java
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```



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* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/DynamicIntroductionAdvice.java
*
/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/MethodInvocationProceedingJoinPoint.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/ControlFlowPointcut.java
* /spring-aop-5-3-29-sources-1-jar/org/aopalliance/intercept/Joinpoint.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/DefaultIntroductionAdvisor.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/annotation/AbstractAspectJAdvisorFactory.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/AbstractAdvisingBeanPostProcessor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/ProxyConfig.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/AbstractBeanFactoryPointcutAdvisor.java
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- * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/scope/ScopedProxyUtils.java
- * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/NameMatchMethodPointcut.java
- *
- /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/Pointcuts.java
- * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/RootClassFilter.java
- * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/MethodMatcher.java
- * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/ClassFilter.java
- * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/ReflectiveMethodInvocation.java
- * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/interceptor/AsyncUncaughtExceptionHandler.java
- * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/ComposablePointcut.java
- * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java
- * /spring-aop-5-3-29-sources-1-jar/org/aopalliance/intercept/Interceptor.java
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- * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/HotSwappableTargetSource.java
- * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/AbstractLazyCreationTargetSource.java
- *
- /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/CglibAopProxy.java
- * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/SingletonTargetSource.java
- * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/EmptyTargetSource.java
- * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJAdviceParameterNameDiscoverer.java
- * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/AbstractBeanFactoryBasedTargetSource.java
- * /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/ThreadLocalTargetSource.java

* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/AdvisedSupport.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java
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* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/LazyInitTargetSource.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/AopProxyFactory.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java
*

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/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/DynamicMethodMatcherPointcut.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/adapt/AfterReturningAdviceAdapter.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/scope/DefaultScopedObject.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/AopInvocationException.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/JdkRegexpMethodPointcut.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/dynamic/Refreshable.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/IntroductionInfo.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/SimpleBeanTargetSource.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/AopConfigException.java
*
/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/PoolingConfig.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/ThreadLocalTargetSourceStats.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/adapt/AdvisorAdapter.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/IntroductionAdvisor.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/PointcutComponentDefinition.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/PointcutAdvisor.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/adapt/AdvisorAdapterRegistrationManager.java
* /spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/adapt/UnknownAdviceTypeException.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/adapt/MethodBeforeAdviceAdapter.java
*
/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/Pointcut.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/SpringConfiguredBeanDefinitionParser.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJAopUtils.java
* /spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/AopProxy.java
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1.178 groovy-testng 3.0.19

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org.apache.groovy.plugin.testng.TestNgRunner

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* /groovy-testng-3-0-19-sources-jar/org/apache/groovy/plugin/testng/TestNgRunner.java

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1.179 junit-platform-launcher 1.9.2

1.179.1 Available under license :

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1.180 groovy-nio 3.0.19

1.180.1 Available under license :

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 */
```

Found in path(s):

```
* /groovy-nio-3-0-19-sources-jar/org/codehaus/groovy/runtime/NioGroovyMethods.java
* /groovy-nio-3-0-19-sources-jar/org/apache/groovy/nio/extensions/NioExtensions.java
*
* /groovy-nio-3-0-19-sources-jar/org/codehaus/groovy/runtime/WritablePath.java
* /groovy-nio-3-0-19-sources-jar/org/apache/groovy/nio/runtime/WritablePath.java
```


1.181 groovy-groovysh 3.0.19

1.181.1 Available under license :

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# "License"); you may not use this file except in compliance
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# http://www.apache.org/licenses/LICENSE-2.0
# software distributed under the License is distributed on an
```

Found in path(s):

```
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/CommandSupport.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/RegisterCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/HelpCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/RegisterCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/CommandAlias.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/EditCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/ShadowCommand.properties
*
/groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/HelpCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/PurgeCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/GrabCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/DisplayCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/RecordCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/LoadCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/Main.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/Groovysh.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/LoadCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/CommandSupport.properties
*
/groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/ShadowCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/Main.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/GrabCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/DocCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/AliasCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/DocCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/ClearCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/EditCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/InspectCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/HistoryCommand.properties
*
/groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/ClearCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/ExitCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/PurgeCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/SaveCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/DisplayCommand.properties
```

```

* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/SetCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/ImportCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/SetCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/AliasCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/SaveCommand.properties
*
/groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/ExitCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/Groovysh.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/CommandAlias.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/ImportCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/InspectCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/HistoryCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/RecordCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/ShowCommand.properties
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/ShowCommand.properties
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```

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```

Found in path(s):

```

* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/BufferManager.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/SaveCommand.groovy
*
/groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/EditCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/completion/IdentifierCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/Parser.groovy
* /groovy-groovysh-3-0-19-sources-
jar/org/codehaus/groovy/tools/shell/completion/GroovySyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/ImportCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/completion/antlr4/IdentifierCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/RecordCommand.groovy

```

```

* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/CommandRegistry.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/InteractiveShellRunner.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/completion/antlr4/ReflectionCompleter.groovy
*
/groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/util/DefaultCommandsRegistrar.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/ShadowCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/util/XmlCommandRegistrar.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/PurgeCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/CommandRegistry.groovy
* /groovy-groovysh-3-0-19-sources-
jar/org/codehaus/groovy/tools/shell/completion/StricterArgumentCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/util/CommandArgumentParser.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/util/PackageHelper.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/ShellRunner.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/completion/ReflectionCompleter.groovy
*
/groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/CommandAlias.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/Interpreter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/HelpCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/CommandAlias.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/util/WrappedInputStream.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/completion/VariableSyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/util/CurlyCountingGroovyLexer.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/util/antlr4/CurlyCountingGroovyLexer.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/PurgeCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/AliasCommand.groovy
*
/groovy-groovysh-3-0-19-sources-
jar/org/apache/groovy/groovysh/completion/antlr4/GroovySyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/CommandSupport.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/antlr4/RelaxedParser.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/RegisterCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/ExitCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/completion/FileNameCompleter.groovy
* /groovy-groovysh-3-0-19-sources-
jar/org/apache/groovy/groovysh/completion/antlr4/ImportsSyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/completion/StricterArgumentCompleter.groovy
* /groovy-groovysh-3-0-19-sources-
jar/org/codehaus/groovy/tools/shell/completion/CustomClassSyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/ClearCommand.groovy
*
/groovy-groovysh-3-0-19-sources-
jar/org/codehaus/groovy/tools/shell/completion/VariableSyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-
jar/org/codehaus/groovy/tools/shell/completion/ImportsSyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/util/WrappedInputStream.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/BufferManager.groovy
* /groovy-groovysh-3-0-19-sources-

```

```

jar/org/codehaus/groovy/tools/shell/completion/BackslashEscapeCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/GrabCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/Main.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/DisplayCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/ExitCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/util/SimpleCompleter.groovy
*
/groovy-groovysh-3-0-19-sources-
jar/org/apache/groovy/groovysh/completion/CustomClassSyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/ClearCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/util/CurlyCountingGroovyLexer.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/SetCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/ImportCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/AnsiDetector.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/completion/KeywordSyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/SetCommand.groovy
* /groovy-groovysh-3-0-19-sources-
jar/org/codehaus/groovy/tools/shell/completion/NavigablePropertiesCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/util/ScriptVariableAnalyzer.groovy
*
/groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/ShellRunner.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/Command.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/util/ScriptVariableAnalyzer.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/util/NoExitSecurityManager.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/AliasCommand.groovy
* /groovy-groovysh-3-0-19-sources-
jar/org/apache/groovy/groovysh/completion/antlr4/VariableSyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/ComplexCommandSupport.groovy
* /groovy-groovysh-3-0-19-sources-
jar/org/apache/groovy/groovysh/completion/NavigablePropertiesCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/completion/ImportsSyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-
jar/org/codehaus/groovy/tools/shell/completion/InfixKeywordSyntaxCompletor.groovy
*
/groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/util/DefaultCommandsRegistrar.groovy
* /groovy-groovysh-3-0-19-sources-
jar/org/apache/groovy/groovysh/completion/ReflectionCompletionCandidate.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/HelpCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/CommandException.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/Groovysh.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/HistoryCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/HistoryCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/Groovysh.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/util/PackageHelperImpl.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/Shell.groovy
*
/groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/RegisterCommand.groovy
* /groovy-groovysh-3-0-19-sources-

```

```

jar/org/codehaus/groovy/tools/shell/completion/ReflectionCompletionCandidate.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/LoadCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/InspectCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/completion/GroovySyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-
jar/org/apache/groovy/groovysh/completion/antlr4/InfixKeywordSyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/util/SimpleCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/Shell.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/GrabCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/Parser.groovy
*
/groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/DocCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/util/XmlCommandRegistrar.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/Main.groovy
* /groovy-groovysh-3-0-19-sources-
jar/org/apache/groovy/groovysh/completion/antlr4/KeywordSyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/InspectCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/ShadowCommand.groovy
* /groovy-groovysh-3-0-19-sources-
jar/org/apache/groovy/groovysh/completion/antlr4/CustomClassSyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/AnsiDetector.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/completion/ReflectionCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/ExitNotification.groovy
*
/groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/DisplayCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/Interpreter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/InteractiveShellRunner.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/DocCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/RelaxedParser.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/completion/BackslashEscapeCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/ShowCommand.groovy
* /groovy-groovysh-3-0-19-sources-
jar/org/apache/groovy/groovysh/completion/InfixKeywordSyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/util/NoExitSecurityManager.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/LoadCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/util/PackageHelperImpl.groovy
*
/groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/RecordCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/CommandSupport.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/EditCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/commands/SaveCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/ExitNotification.groovy
* /groovy-groovysh-3-0-19-sources-
jar/org/codehaus/groovy/tools/shell/completion/CommandNameCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/util/CommandArgumentParser.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/Command.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/commands/ShowCommand.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/completion/CommandNameCompleter.groovy

```

```

*
/groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/ComplexCommandSupport.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/util/PackageHelper.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/CommandException.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/completion/FileNameCompleter.groovy
* /groovy-groovysh-3-0-19-sources-
jar/org/codehaus/groovy/tools/shell/completion/KeywordSyntaxCompleter.groovy
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/completion/IdentifierCompleter.groovy
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Found in path(s):

```

* /groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/util/package.html
*
/groovy-groovysh-3-0-19-sources-jar/org/codehaus/groovy/tools/shell/package.html
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/util/package.html
* /groovy-groovysh-3-0-19-sources-jar/org/apache/groovy/groovysh/package.html

```

1.182 groovy-swing 3.0.19

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Found in path(s):

- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/TableFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/TargetBinding.java
- *
- /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/FullBinding.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/model/FormModel.java
- * /groovy-swing-3-0-19-sources-jar/groovy/model/NestedValueModel.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/model/DefaultTableColumn.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/TabbedPaneFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/binding/JScrollBarProperties.java
- * /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/ClosureSourceBinding.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/binding/JComboBoxMetaMethods.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/model/ClosureModel.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/BoxFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/BoxLayoutFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/binding/JComboBoxProperties.java
- *
- /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/BindingProxy.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/binding/AbstractSyntheticBinding.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/BindGroupFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/ComponentFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/TargetBinding.java
- * /groovy-swing-3-0-19-sources-jar/groovy/model/ValueModel.java
- * /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/BindingUpdatable.java
- * /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/SourceBinding.java
- * /groovy-swing-3-0-19-sources-jar/groovy/model/ValueHolder.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/SplitPaneFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/BindPath.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/ImageIconFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/impl/ListWrapperListModel.java
- *
- /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/ColumnModelFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/model/ValueHolder.java

- * /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/BindPath.java
- * /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/SourceBinding.java
- * /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/AbstractFullBinding.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/binding/JTableMetaMethods.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/ComboBoxFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/LayoutFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/BindProxyFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/LineBorderFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/BindingProxy.java
- * /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/AbstractFullBinding.java
- *
- /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/PropertyPathFullBinding.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/ColumnFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/SwingTimerTriggerBinding.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/binding/JListMetaMethods.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/TableModelFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/AggregateBinding.java
- * /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/PropertyChangeProxyTargetBinding.java
- * /groovy-swing-3-0-19-sources-jar/groovy/model/DefaultTableColumn.java
- * /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/PropertyPathFullBinding.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/DialogFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/binding/AbstractSyntheticMetaMethods.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/BeanFactory.groovy
- *
- /groovy-swing-3-0-19-sources-jar/groovy/swing/impl/DefaultAction.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/impl/TableLayoutCell.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/binding/JListProperties.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/BindFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/TriggerBinding.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/FrameFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/EventTriggerBinding.java
- * /groovy-swing-3-0-19-sources-jar/groovy/model/FormModel.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/TitledBorderFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/RendererFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/TextArgWidgetFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/ActionFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/SwingBuilder.groovy
- *
- /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/ScrollPaneFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/ClosureTriggerBinding.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/impl/TableLayout.java
- * /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/PropertyBinding.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/model/NestedValueModel.java
- * /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/extensions/SwingExtensions.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/WindowFactory.groovy
- * /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/ClosureTriggerBinding.java
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/LookAndFeelHelper.groovy
- * /groovy-swing-3-0-19-sources-jar/groovy/swing/binding/JTextComponentProperties.java


```

* /groovy-swing-3-0-19-sources-jar/groovy/model/DefaultTableModel.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/binding/JSpinnerProperties.java
*
/groovy-swing-3-0-19-sources-jar/groovy/swing/binding/JTableProperties.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/ListFactory.groovy
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/GridBagFactory.groovy
* /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/ClosureSourceBinding.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/TableLayoutFactory.groovy
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/CollectionFactory.groovy
* /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/SwingTimerTriggerBinding.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/RichActionWidgetFactory.groovy
* /groovy-swing-3-0-19-sources-jar/groovy/swing/impl/TableLayoutRow.java
* /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/BindingUpdatable.java
* /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/runtime/SwingGroovyMethods.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/EmptyBorderFactory.groovy
*
/groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/EventTriggerBinding.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/MapFactory.groovy
* /groovy-swing-3-0-19-sources-jar/groovy/swing/table/TableMap.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/impl/ClosureRenderer.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/model/ValueModel.java
* /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/FullBinding.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/SwingBorderFactory.groovy
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/BevelBorderFactory.groovy
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/WidgetFactory.groovy
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/FormattedTextFactory.groovy
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/CellEditorFactory.groovy
* /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/TriggerBinding.java
* /groovy-swing-3-0-19-sources-jar/groovy/inspect/swingui/TableSorter.java
*
/groovy-swing-3-0-19-sources-jar/groovy/model/PropertyModel.java
* /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/PropertyChangeProxyTargetBinding.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/CompoundBorderFactory.groovy
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/InternalFrameFactory.groovy
* /groovy-swing-3-0-19-sources-jar/groovy/swing/binding/AbstractButtonProperties.java
* /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/PropertyBinding.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/model/DefaultTableModel.java
* /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/AggregateBinding.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/binding/JSliderProperties.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/binding/JComponentProperties.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/SeparatorFactory.groovy
* /groovy-swing-3-0-19-sources-jar/groovy/swing/model/PropertyModel.java
*
/groovy-swing-3-0-19-sources-jar/groovy/swing/factory/MatteBorderFactory.groovy
* /groovy-swing-3-0-19-sources-jar/groovy/inspect/swingui/TableMap.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/impl/ClosureCellEditor.groovy
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/ButtonGroupFactory.groovy
* /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/MutualPropertyBinding.java

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```
* /groovy-swing-3-0-19-sources-jar/groovy/swing/model/ClosureModel.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/table/TableSorter.java
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/RootPaneContainerFactory.groovy
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/EtchedBorderFactory.groovy
* /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/MutualPropertyBinding.java
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```
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* /groovy-swing-3-0-19-sources-jar/groovy/swing/binding/package.html
*
/groovy-swing-3-0-19-sources-jar/groovy/swing/model/package.html
* /groovy-swing-3-0-19-sources-jar/groovy/swing/package.html
* /groovy-swing-3-0-19-sources-jar/org/apache/groovy/swing/binding/package.html
* /groovy-swing-3-0-19-sources-jar/groovy/model/package.html
* /groovy-swing-3-0-19-sources-jar/groovy/swing/factory/package.html
* /groovy-swing-3-0-19-sources-jar/org/codehaus/groovy/binding/package.html
```

1.183 groovy-docgenerator 3.0.19

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* /groovy-docgenerator-3-0-19-sources-jar/org/apache/groovy/docgenerator/index.html

*

/groovy-docgenerator-3-0-19-sources-jar/org/apache/groovy/docgenerator/overview-summary.html

* /groovy-docgenerator-3-0-19-sources-jar/org/apache/groovy/docgenerator/template.overview-frame.html

* /groovy-docgenerator-3-0-19-sources-jar/org/apache/groovy/docgenerator/template.allclasses-frame.html

* /groovy-docgenerator-3-0-19-sources-jar/org/apache/groovy/docgenerator/template.class.html

* /groovy-docgenerator-3-0-19-sources-jar/org/apache/groovy/docgenerator/template.package-summary.html

* /groovy-docgenerator-3-0-19-sources-jar/org/apache/groovy/docgenerator/template.package-frame.html

* /groovy-docgenerator-3-0-19-sources-jar/org/apache/groovy/docgenerator/template.index-all.html

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1.184 groovy-test 3.0.19

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 */
```

Found in path(s):

- * /groovy-test-3-0-19-sources-jar/groovy/test/StringTestUtil.groovy
- * /groovy-test-3-0-19-sources-jar/groovy/util/AllTestSuite.java

```

*
/groovy-test-3-0-19-sources-jar/groovy/test/GroovyTestCase.java
* /groovy-test-3-0-19-sources-jar/groovy/mock/interceptor/MockProxyMetaClass.java
* /groovy-test-3-0-19-sources-jar/groovy/test/AllTestSuite.java
* /groovy-test-3-0-19-sources-jar/groovy/test/NotYetImplemented.java
* /groovy-test-3-0-19-sources-
jar/org/apache/groovy/test/transform/NotYetImplementedLegacyASTTransformation.java
* /groovy-test-3-0-19-sources-jar/org/codehaus/groovy/runtime/ScriptTestAdapter.java
* /groovy-test-3-0-19-sources-jar/groovy/util/JavadocAssertionTestSuite.groovy
* /groovy-test-3-0-19-sources-jar/groovy/mock/interceptor/LooseExpectation.groovy
* /groovy-test-3-0-19-sources-jar/groovy/test/JavadocAssertionTestBuilder.groovy
* /groovy-test-3-0-19-sources-jar/groovy/util/StringTestUtil.groovy
* /groovy-test-3-0-19-sources-jar/org/apache/groovy/test/transform/NotYetImplementedASTTransformation.java
* /groovy-test-3-0-19-sources-jar/groovy/mock/interceptor/Ignore.groovy
*
/groovy-test-3-0-19-sources-jar/groovy/util/GroovyShellTestCase.groovy
* /groovy-test-3-0-19-sources-jar/groovy/test/GroovyShellTestCase.groovy
* /groovy-test-3-0-19-sources-jar/groovy/test/GroovyAssert.java
* /groovy-test-3-0-19-sources-jar/groovy/mock/interceptor/Demand.groovy
* /groovy-test-3-0-19-sources-jar/groovy/test/GroovyTestSuite.java
* /groovy-test-3-0-19-sources-jar/groovy/util/GroovyTestCase.java
* /groovy-test-3-0-19-sources-jar/groovy/util/GroovyTestSuite.java
* /groovy-test-3-0-19-sources-jar/groovy/mock/interceptor/StrictExpectation.groovy
* /groovy-test-3-0-19-sources-jar/groovy/mock/interceptor/StubFor.groovy
* /groovy-test-3-0-19-sources-jar/groovy/util/JavadocAssertionTestBuilder.groovy
* /groovy-test-3-0-19-sources-jar/org/apache/groovy/test/ScriptTestAdapter.java
* /groovy-test-3-0-19-sources-jar/groovy/test/GroovyLogTestCase.groovy
* /groovy-test-3-0-19-sources-jar/groovy/test/JavadocAssertionTestSuite.groovy
* /groovy-test-3-0-19-sources-jar/groovy/mock/interceptor/MockFor.groovy
*
/groovy-test-3-0-19-sources-jar/groovy/lang/GroovyLogTestCase.groovy
* /groovy-test-3-0-19-sources-jar/groovy/mock/interceptor/MockInterceptor.groovy
* /groovy-test-3-0-19-sources-jar/groovy/transform/NotYetImplemented.java
* /groovy-test-3-0-19-sources-jar/groovy/util/GroovyAssert.java
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* /groovy-test-3-0-19-sources-jar/groovy/mock/interceptor/package.html

1.185 groovy-ant 3.0.19

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* /groovy-ant-3-0-19-sources-jar/org/codehaus/groovy/ant/package.html

* /groovy-ant-3-0-19-sources-jar/org/codehaus/groovy/antlib.xml

*

/groovy-ant-3-0-19-sources-jar/groovy/ant/antlib.xml

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Found in path(s):

- * /groovy-ant-3-0-19-sources-jar/org/codehaus/groovy/ant/AntProjectPropertiesDelegate.java
- *
- /groovy-ant-3-0-19-sources-jar/groovy/ant/AntBuilder.java
- * /groovy-ant-3-0-19-sources-jar/org/codehaus/groovy/ant/FileScanner.java
- * /groovy-ant-3-0-19-sources-jar/org/codehaus/groovy/ant/FileSystemCompilerFacade.java
- * /groovy-ant-3-0-19-sources-jar/org/codehaus/groovy/ant/FileIterator.java
- * /groovy-ant-3-0-19-sources-jar/org/codehaus/groovy/ant/GenerateStubsTask.java
- * /groovy-ant-3-0-19-sources-jar/org/codehaus/groovy/ant/Groovy.java
- * /groovy-ant-3-0-19-sources-jar/org/codehaus/groovy/ant/CompileTaskSupport.java
- * /groovy-ant-3-0-19-sources-jar/org/codehaus/groovy/ant/Groovyc.java
- * /groovy-ant-3-0-19-sources-jar/groovy/ant/FileNameFinder.groovy
- * /groovy-ant-3-0-19-sources-jar/org/codehaus/groovy/ant/GroovycTask.java
- * /groovy-ant-3-0-19-sources-jar/org/codehaus/groovy/ant/LoggingHelper.java
- * /groovy-ant-3-0-19-sources-jar/groovy/util/FileNameFinder.groovy
- * /groovy-ant-3-0-19-sources-jar/org/codehaus/groovy/ant/RootLoaderRef.java
- * /groovy-ant-3-0-19-sources-jar/org/codehaus/groovy/ant/VerifyClass.java
- *
- /groovy-ant-3-0-19-sources-jar/groovy/util/AntBuilder.java
- * /groovy-ant-3-0-19-sources-jar/org/codehaus/groovy/ant/UberCompileTask.java
- * /groovy-ant-3-0-19-sources-jar/org/codehaus/groovy/ant/Groovydoc.java

1.186 groovy-macro 3.0.19

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#global transformation for macro support
org.codehaus.groovy.transform.MacroTransformation
org.codehaus.groovy.transform.MacroClassTransformation

Found

in path(s):

* /groovy-macro-3-0-19-sources-jar/META-INF/services/org.codehaus.groovy.transform.ASTTransformation
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Found in path(s):

* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/transform/MacroCallTransformingVisitor.java
*
/groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/runtime/MacroStub.java
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/matcher/ASTFinder.java
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/matcher/TreeContextAction.java
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/matcher/internal/AnyTokenMatch.groovy
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/matcher/ContextualClassCodeVisitor.java


```

* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/matcher/TreeContext.java
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/matcher/ASTNodePredicate.java
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/matcher/internal/ConstraintPredicate.groovy
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/matcher/ASTMatcher.groovy
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/methods/MacroGroovyMethods.java
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/transform/MacroMethodsCache.java
*
/groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/runtime/MacroContext.java
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/matcher/MatchingConstraints.groovy
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/transform/MacroTransformation.java
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/transform/MacroClass.java
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/matcher/MatcherUtils.java
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/runtime/Macro.java
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/runtime/MacroBuilder.java
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/transform/MacroClassTransformation.java
* /groovy-macro-3-0-19-sources-jar/org/codehaus/groovy/macro/matcher/NodeComparator.java
* /groovy-macro-3-0-19-sources-
jar/org/codehaus/groovy/macro/matcher/internal/MatchingConstraintsBuilder.groovy

```

1.187 groovyjsr 3.0.19

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```

org.codehaus.groovy.jsr223.GroovyScriptEngineFactory

Found in path(s):

```

* /groovy-jsr223-3-0-19-sources-jar/META-INF/services/javax.script.ScriptEngineFactory

```

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- * /groovy-jsr223-3-0-19-sources-jar/org/codehaus/groovy/jsr223/ScriptExtensions.java
- * /groovy-jsr223-3-0-19-sources-jar/org/codehaus/groovy/jsr223/ScriptStaticExtensions.java

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- * /groovy-jsr223-3-0-19-sources-jar/org/codehaus/groovy/jsr223/GroovyCompiledScript.java
- * /groovy-jsr223-3-0-19-sources-jar/org/codehaus/groovy/jsr223/GroovyScriptEngineImpl.java
- * /groovy-jsr223-3-0-19-sources-jar/org/codehaus/groovy/jsr223/GroovyScriptEngineFactory.java

1.188 groovy-groovydoc 3.0.19

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```

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- * /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/styleSheet.css

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* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/help-doc.html

*

/groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/package.html

* /groovy-groovydoc-3-0-19-sources-

jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/allclasses-frame.html

* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/groovydoc/package.html

* /groovy-groovydoc-3-0-19-sources-

jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/rootDocStructuredData.xml

* /groovy-groovydoc-3-0-19-sources-

jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/packageLevel/package-frame.html

* /groovy-groovydoc-3-0-19-sources-

jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/packageLevel/packageDocStructuredData.xml

* /groovy-groovydoc-3-0-19-sources-

jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/index.html

* /groovy-groovydoc-3-0-19-sources-

jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/packageLevel/package-summary.html

* /groovy-groovydoc-3-0-19-sources-

jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/overview-frame.html

*

/groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/index-all.html

* /groovy-groovydoc-3-0-19-sources-

jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/classLevel/classDocStructuredData.xml

* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/overview-summary.html
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/classLevel/classDocName.html
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/deprecated-list.html
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* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyAnnotationRef.java
*
/groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/antlr4/GroovyDocParser.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/GroovyDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/ResourceManager.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyParameter.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/GroovyDocTemplateEngine.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyExecutableMemberDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyClassDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/Main.groovy
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyTag.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/GroovyDocErrorReporter.java
*
/groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyProgramElementDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/apache/groovy/antlr/GroovydocVisitor.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/GroovyConstructorDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/GroovyDocParser.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/ExternalGroovyClassDoc.java

```

* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/groovydoc/GroovyPackageDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/FileOutputTool.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/GroovyDocWriter.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/antlr4/GroovydocJavaVisitor.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/groovydoc/GroovyProgramElementDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyMemberDoc.java
*
/groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/groovydoc/GroovyType.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/groovydoc/GroovyParameter.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/LinkArgument.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/OutputTool.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyConstructorDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyFieldDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/ArrayClassDocWrapper.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/FileSystemResourceManager.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/GroovyDocTool.java
*
/groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/GroovyRootDocBuilder.java
* /groovy-groovydoc-3-0-19-sources-jar/org/apache/groovy/groovydoc/tools/GroovyDocUtil.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/ClasspathResourceManager.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/groovydoc/GroovyClassDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/groovydoc/GroovyAnnotationRef.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/groovydoc/GroovyMethodDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyMethodDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyPackageDoc.java
* /groovy-groovydoc-3-0-19-sources-
jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyAbstractableElementDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/groovydoc/GroovyTag.java
*
/groovy-groovydoc-3-0-19-sources-
jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyClassDocAssembler.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyType.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/MockOutputTool.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyRootDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/groovydoc/GroovyExecutableMemberDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/groovydoc/GroovyMemberDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/groovydoc/GroovyRootDoc.java
* /groovy-groovydoc-3-0-19-sources-
jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/GroovyDocTemplateInfo.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/groovydoc/GroovyFieldDoc.java
* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/GroovyDocParserI.java
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* /groovy-groovydoc-3-0-19-sources-jar/org/codehaus/groovy/tools/groovydoc/Main.properties

1.189 groovy-datetime 3.0.19

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```

Found in path(s):

* /groovy-datetime-3-0-19-sources-jar/org/apache/groovy/datetime/extensions/DateTimeExtensions.java

*

/groovy-datetime-3-0-19-sources-jar/org/apache/groovy/datetime/extensions/DateTimeStaticExtensions.java

1.190 groovy-sql 3.0.19

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- * /groovy-sql-3-0-19-sources-jar/groovy/sql/SqlWhereVisitor.java
- * /groovy-sql-3-0-19-sources-jar/org/apache/groovy/sql/extensions/SqlExtensions.java
- *
- /groovy-sql-3-0-19-sources-jar/groovy/sql/Sql.java
- * /groovy-sql-3-0-19-sources-jar/groovy/sql/OutParameter.java
- * /groovy-sql-3-0-19-sources-jar/groovy/sql/ExtractIndexAndSql.java
- * /groovy-sql-3-0-19-sources-jar/groovy/sql/ExpandedVariable.java
- * /groovy-sql-3-0-19-sources-jar/groovy/sql/SqlWithParams.java
- * /groovy-sql-3-0-19-sources-jar/groovy/sql/InOutParameter.java
- * /groovy-sql-3-0-19-sources-jar/groovy/sql/GroovyResultSetProxy.java
- * /groovy-sql-3-0-19-sources-jar/groovy/sql/ResultSetOutParameter.java
- * /groovy-sql-3-0-19-sources-jar/groovy/sql/CallResultSet.java
- * /groovy-sql-3-0-19-sources-jar/groovy/sql/GroovyResultSet.java
- * /groovy-sql-3-0-19-sources-jar/groovy/sql/BatchingStatementWrapper.java
- * /groovy-sql-3-0-19-sources-jar/groovy/sql/GroovyRowResult.java
- * /groovy-sql-3-0-19-sources-jar/groovy/sql/ResultSetMetaDataWrapper.java
- * /groovy-sql-3-0-19-sources-jar/groovy/sql/DataSet.java
- * /groovy-sql-3-0-19-sources-jar/groovy/sql/GroovyResultSetExtension.java
- *
- /groovy-sql-3-0-19-sources-jar/groovy/sql/BatchingPreparedStatementWrapper.java
- * /groovy-sql-3-0-19-sources-jar/groovy/sql/SqlOrderByVisitor.java
- * /groovy-sql-3-0-19-sources-jar/groovy/sql/InParameter.java

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1.191 dojo 1.17.3

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1.192 tomcat-util-scan 10.1.15

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1.193 dijit 1.17.3

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1.196 dojo 1.17.3

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1.198 ecj 4.27

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*     bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*     bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
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*   Joerg Kubitz   - threadlocal refactoring, all ASCII chars
*
*   - (copied content from PublicScanner.java / Scanner.java)
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 * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
 * Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
 * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
 * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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 * IBM Corporation - Fix for bug 328575
 * het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
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*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute
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```

*     bug 186342 - [compiler][null] Using annotations for null checking

```

```

*     bug 367203 - [compiler][null] detect assigning null to nonnull argument

```

```

*     bug 365519 - editorial cleanup after bug 186342 and bug 365387

```

```

*     bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

```

```

*     bug 382353 - [1.8][compiler] Implementation property modifiers

```

should be accepted on default methods.

```

*     bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

```

```

*     bug 388281 - [compiler][null] inheritance of null annotations as an option

```

```

*     bug 401030 - [1.8][null] Null analysis support for lambda methods.

```

```

*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

```

```

*     Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

```

```

*     Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument
annotations

```

```

*     Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

```

```

*     Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

```

```

*     Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

```

```

*     Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize

```

declaration style null annotations

```

*     Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/core/compiler/CategorizedProblem.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java

*

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/ConflictedParser.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfPackage.java

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* Jesper S Moller - Contributions for

- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- * Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference expressions
- * Bug 416885 - [1.8][compiler] IncompatibleClassChange error (edit)
- * Stephan Herrmann - Contribution for
- * bug 402028 - [1.8][compiler] null analysis for reference expressions
- * bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- * Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
- * Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- * Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
- * Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
- * Bug 427438
- [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- * Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- * Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J involved
- * Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- * Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
- * Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
- * Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- * Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- * Bug 438945 - [1.8] NullPointerException
InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
- * Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- * Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
- * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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* Bug 407191 - [1.8] Binary access support for type annotations
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* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
* Bug 422796 - [compiler][null] boxed boolean reported as potentially null after
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*     Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it
    extends the outer class
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* Stephan Herrmann - Contributions for

* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 265744 - Enum switch should warn about missing default

* bug 374605 - Unreasonable warning for enum-based switch statements

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* bug 331649 - [compiler][null] consider null annotations for fields

* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer

* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

* Bug 458396 - NPE in CodeStream.invoke()

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/DoubleLiteral.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java
*
/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
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* Stephan Herrmann - Contribution for
* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
*****/

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* Stephan Herrmann - Contributions for

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

* Bug 392099

- [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface

* Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations

* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards

* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations

* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

* Bug 400874 - [1.8][compiler]

Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"

* Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized type due to bound(s) mismatch

* Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType

* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error

* Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument

* Bug 426792 - [1.8][inference][impl] generify new type inference engine

* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>

* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource

* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected

* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.

* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations

* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>

* Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class

* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*****/

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* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403147 - [compiler][null] FUP of bug 400761:
consolidate interaction between unboxing, NPE, and deferred checking
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* Nikolay Metchev (nikolaymetchev@gmail.com) - Contributions for
* bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
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* Stephan Herrmann - Contributions for

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365519 - editorial cleanup after bug 186342 and bug 365387

* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

* bug 385626 - @NonNull fails across

loop boundaries

* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

* Bug 455723 - Nonnull argument not correctly inferred in loop

* Jesper S Moller - Contributions for
* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/FinallyFlowContext.java

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* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Initializer.java

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* wharley@bea.com - derived base class from BatchMessengerImpl

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* Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 317046 - Exception during debugging when hover mouse over a field

- * bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- * bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
- * bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
- * Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- * Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
- * Bug 426792 - [1.8][inference][impl] generify new type inference engine
- * Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
- * Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
- * Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray(and asking for code completion
- * Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
- * Bug 435962 - [RC2] StackOverFlowError when building
- * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- * Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- * Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
- * Jesper S Moller <jesper@selskabet.org> - Contributions for
- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 370639 - [compiler][resource] restore the

default for resource leak warnings

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

* bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 416267 - NPE in QualifiedAllocationExpression.resolveType

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 424415 - [1.8][compiler] Eventual

resolution of ReferenceExpression is not seen to be happening.

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Jesper S Moller <jesper@selskabet.org> - Contributions for

* bug 378674 - "The method can be declared as static" is wrong

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

* Till Brychcy - Contributions for

* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File

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* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

* Bug 406973 - [compiler] Parse MethodParameters attribute

* Andy Clement - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 383368 - [compiler][null] syntactic null analysis for field references

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*     bug 185682 - Increment/decrement operators mark local variables as read
*     bug 331649 - [compiler][null] consider null annotations for fields
*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
*     Bug 400874 - [1.8][compiler]
*   Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 458396 - NPE in CodeStream.invoke()
*   Jesper S Moller - Contributions for
*     Bug 378674 - "The method can be declared as static" is wrong
*   Robert Roth <robert.roth.off@gmail.com> - Contributions for
*     Bug 361039 - NPE in FieldReference.optimizedBooleanConstant
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*     Bug 473178
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*       bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*       bug 186342 - [compiler][null] Using annotations for null checking
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*       Bug 186342 - [compiler][null] Using annotations for null checking
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Literal.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/LexStream.java

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*   Stephan Herrmann - Contribution for
*     bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*     bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     Bug
415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*     Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*     Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*     Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
*     Bug 426792 - [1.8][inference][impl] generify new type inference engine
*     Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*     Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*     Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*     Bug 441693 -
[1.8][null] Bogus warning for type argument annotated with @NonNull
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*     Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*****/

```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java

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* Igor Fedorenko - extracted from ElementsImpl

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* wharley@bea.com - initial API and implementation

* (originally in org.eclipse.jdt.apt.core)

* IBM Corporation - Bug 513790

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/ManyToMany.java

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*   Jesper Steen Moeller - Contributions for:
*       Bug 407297: [1.8][compiler] Control generation of parameter names by option
*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/tool/Options.java

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* Contributors:
*   tyeung@bea.com - initial API and implementation
*   olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
*****/

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Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ClassSignature.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java

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*     bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*     Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop
with close in try/catch
*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/DoStatement.java
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jar/org/eclipse/jdt/internal/compiler/classfmt/NonNullDefaultAwareTypeAnnotationWalker.java
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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SortedCompoundNameVector.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/tool/ModuleLocationHandler.java

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* wharley@bea.com - initial API and implementation

* IBM Corporation - fix for 342598

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* Stephan Herrmann - Contribution for

* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

* Jesper Steen Moller - Contributions for

* Bug 412150 [1.8] [compiler]

Enable reflected parameter names during annotation processing

*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/Binding.java

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*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*     Bug 417758 - [1.8][null] Null safety compromise during array creation.
*     Bug
427163 - [1.8][null] bogus error "Contradictory null specification" on varargs
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*     Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ArrayAllocationExpression.java
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*   wharley@bea.com - initial API and implementation
*   philippe.marschall@netcetera.ch - Fix for 338370
*   IBM Corporation - Fix for validating relative name
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchFileImpl.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java
*
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/FileFinder.java
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- * Stephan Herrmann - Contribution for
- * bug 331649 - [compiler][null] consider null annotations for fields
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 458396 - NPE in CodeStream.invoke()

*****/

Found in path(s):

- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/VariableBinding.java

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/IQualifiedTypeResolutionListener.java

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*     bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*     bug 401030 - [1.8][null] Null analysis support for lambda methods.
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*****/

```

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in path(s):

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/LocalTypeBinding.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Pattern.java
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*   het@google.com - Bug 441790
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*   Stephan Herrmann - Contributions for
*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*     bug 358903 - Filter practically unimportant resource leak warnings
*     bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*****/
```

- * bug 370639 - [compiler][resource]
restore the default for resource leak warnings
- * bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- * bug 379784 - [compiler] "Method can be static" is not getting reported
- * bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- * bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
- * Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
- * Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream -
return inside for loop)
- * Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding
with try-catch
- * Jesper S Moller <jesper@selskabet.org> - Contributions for
- * bug 378674 - "The method can be declared as static" is wrong
- * Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends
the outer class

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/BlockScope.java

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*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
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* Contributors:
*   tyeung@bea.com - initial API and implementation
*   olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*   Stephan Herrmann - Contribution for

```

- * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- * Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
- * Bug 429958
- [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
- * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 292478 - Report potentially null across variable assignment

* bug 332637 - Dead Code detection removing code that isn't dead

* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement

* Bug 421035 - [resource]

False alarm of resource leak warning when casting a closeable in its assignment

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- * IBM Corporation - initial API and implementation
- * Stephan Herrmann - Contribution for
- * bug 383368 - [compiler][null] syntactic null analysis for field references
- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- * Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 417295 - [1.8][null]

Message type annotated null analysis to gel well with deep encoded type bindings.

- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- * Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- * Andy Clement - Contributions for
- * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

*****/

Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/InstanceOfExpression.java

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- * IBM Corporation - initial API and implementation

- * Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

- * bug 185682 - Increment/decrement operators mark local variables as read

- * bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

- * bug 331649 - [compiler][null] consider null annotations for fields

- * bug 383368 - [compiler][null] syntactic null analysis for field references

- * bug 392384 - [1.8][compiler][null] Restore nullness

info from type annotations in class files

- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

- * Bug 411964 - [1.8][null] leverage null type annotation in foreach statement

- * Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Reference.java

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*   Stephan Herrmann - Contribution for
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*   Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*****/

```

Found in path(s):

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ThisReference.java
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Found in path(s):

```

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/Constant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/CharConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/BooleanConstant.java
*
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/DoubleConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/LongConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java

```

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/IntConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ByteConstant.java
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 185682 - Increment/decrement operators mark local variables as read

* bug 331649 - [compiler][null] consider null annotations for fields

* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

* Bug 447088 - [null] @Nullable on fully qualified field type is ignored

* Bug 435805 - [1.8][compiler][null]

Java 8 compiler does not recognize declaration style null annotations

* Bug 458396 - NPE in CodeStream.invoke()

* Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning

* Till Brychcy - Contribution for

* bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/FieldBinding.java

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* daolaf@gmail.com - Contribution for bug 3292227

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IGenericMethod.java

*

/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java

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* Stephan Herrmann - Contributions for

* Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)

* Bug 388630 - @NonNull diagnostics at line 0

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

* Bug 424727 - [compiler][null] NullPointerException

in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)

- * Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
- * Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
- * Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
- * Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
- * Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException

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- * Contributors:
- * Walter Harley - initial API and implementation
- * IBM Corporation - fix for 342598, 382590
- * Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555

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- * Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
- * Stephan Herrmann - Contributions for

- * bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
- * bug 349326 - [1.7] new warning for missing try-with-resources
- * bug 186342 - [compiler][null] Using annotations for null checking
- * bug 358903 - Filter practically unimportant resource leak warnings
- * bug
- 370639 - [compiler][resource] restore the default for resource leak warnings
- * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- * bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- * bug 379784 - [compiler] "Method can be static" is not getting reported
- * bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
- * bug 388281 - [compiler][null] inheritance of null annotations as an option
- * bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
- * bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- * bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
- * bug 331649 - [compiler][null] consider null annotations for fields
- * bug 383368 - [compiler][null] syntactic null analysis for field references
- * bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- * bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
- * bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
- * bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
- * bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- * Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
- * Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
- * Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- * Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- * Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- * Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- * Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- * Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- * Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
- * Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- * Bug 427438 - [1.8][compiler]
- NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- * Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
- * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- * Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
- * Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

- * Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
- * Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
- * Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
- * Bug 470958 - [1.8] Unable to convert lambda
- * Bug 410218 - Optional warning

for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.

- * Jesper S Moller - Contributions for
- * Bug 378674 - "The method can be declared as static" is wrong
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- * Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

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- * Contributors:

- * IBM Corporation - initial API and implementation

- * Jesper S Moller - Contributions for

- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

- * bug 382721 - [1.8][compiler] Effectively final variables needs special treatment

- * Bug 416885 - [1.8][compiler] IncompatibleClassChange error (edit)

- * Stephan Herrmann - Contribution for

- * bug 401030 - [1.8][null] Null analysis support for lambda methods.

- * Bug 392099

- [1.8][compiler][null] Apply null annotation on types for null analysis

- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

- * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"

- * Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType

- * Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression

- * Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation

- * Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType

- * Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error

- * Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.

- * Bug 426563 - [1.8] AIOOBE when method with error
invoked with lambda expression as argument
- * Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is
applicable here"
- * Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- * Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
- * Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda
compatibility constraint
- * Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
- * Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
- * Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
- * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type
variables
- * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- * Bug 455723 - Nonnull argument not correctly inferred in loop
- * Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

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 * Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container
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* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 415790

- [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ForStatement.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java

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* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365519 - editorial cleanup after bug 186342 and bug 365387

* bug 358903 - Filter practically unimportant resource leak warnings

* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

* bug 388281 - [compiler][null] inheritance of null annotations as an option

* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

- * bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
- * bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- * bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
- * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- * Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- * Bug
- 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- * Bug 426792 - [1.8][inference][impl] generify new type inference engine
- * Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
- * Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
- * Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 431581 - Eclipse compiles what it should not
- * Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Bug 446442 - [1.8] merge null annotations from
- super methods
- * Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
- * Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- * Jesper S Moller - Contributions for
- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- * bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- * Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- * bug 386692 - Missing "unused" warning on "autowired" fields
- * Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
- * bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
- * Sebastian Zarnekow - Contributions
- for
- * bug 544921 - [performance] Poor performance with large source files

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* bug 384380 - False positive on a "Potential null pointer access" after a continue

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InvocationSite.java

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* Contributors:

* IBM Corporation - initial API and implementation

* Stephan Herrmann - Contributions for

* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used

* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 358903 - Filter practically unimportant resource

leak warnings

* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 370639 - [compiler][resource] restore the default for resource leak warnings

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 424727 - [compiler][null] NullPointerException in

nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)

* Bug 424710

- [1.8][compiler] CCE in SingleNameReference.localVariableBinding

* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.

* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation

* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.

* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context

* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?

* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler

* Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.

* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

- * Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
- * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- * Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
- * Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
- * Bug 434297 - [1.8] NPE in LambdaExpression.analyseCode with lambda expression nested in a conditional expression
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
- * Jesper S Moller <jesper@selskabet.org> - Contributions for
- * bug 378674 - "The method can be declared as static" is wrong
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 383624 - [1.8][compiler] Revive
- code generation support for type annotations (from Olivier's work)
- * Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
- * Till Brychcy - Contributions for
- * bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
- * Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
- * Bug 473178

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* Stephan Herrmann - Contribution for bug 349326 - [1.7] new warning for missing try-with-resources

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 185682 - Increment/decrement operators mark local variables as read

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

* bug 331649 - [compiler][null] consider

null annotations for fields

* Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis

* Jesper S Møller <jesper@selskabet.org> - Contributions for

* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

*

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/LocalVariableBinding.java

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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Stephan Herrmann - Contribution for
*   Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
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*   Stephan Herrmann - Contributions for
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 358903 - Filter practically unimportant resource leak warnings

```

- * bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
- * bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
- * bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- * Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
- * Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
- * Bug 425183 - [1.8][inference] make CaptureBinding18 safe
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- * Jesper S Moller - Contributions for
 - * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
 - * Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
 - * bug 527554 - [1.8.3] Compiler support for JEP 286 Local-Variable Type
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
 - * Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
- * Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
 - * bug 386692 - Missing "unused" warning on "autowired" fields
- * Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
 - * bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource

*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeConstants.java

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- * Stephan Herrmann - Contribution for
 - * Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
 - * Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations

*****/

/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a with a single binding, e.g:

```

@T Z;                type => Z annotations => [[@T]]
  @T Y.@T Z          type => Z annotations => [[@T][@T]]
  @T X.@T Y.@T Z     type => Z annotations => [[@T][@T][@T]]
  java.lang.@T X.@T Y.@T Z      type => Z annotations => [[[]][@T][@T][@T]]
  in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their
  layout for proper attribution.
  */

```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotatableTypeSystem.java

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* Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method

* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

* Bug 440687 - [compiler][batch][null] improve command line option for external annotations

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

*

bug 407191 - [1.8] Binary access support for type annotations

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileReader.java

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*   bug 332637 - Dead Code detection removing code that isn't dead
*   bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*****/

```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/ConditionalFlowInfo.java
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*   wharley@bea.com - initial API and implementation
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```
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchProcessingEnvImpl.java
```

```
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java
```

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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/LabelFlowContext.java

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*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 265744 - Enum switch should warn about missing default
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 381443
*   - [compiler][null] Allow parameter widening from @NonNull to unannotated
*   Bug 441208 - [1.8][null] SuppressWarnings("null") does not suppress / marked Unnecessary
*   Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
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* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax

* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super

* bug 404728 - [1.8]NPE on QualifiedSuperReference error

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* Jesper S Moller - Contributions for

* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

* Stephan Herrmann - Contribution for

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 423504 - [1.8] Implement "18.5.3

Functional Interface Parameterization Inference"

* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType

* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression

* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error

* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.

* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 446442 - [1.8] merge null annotations from super methods
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
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*     Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*   IBM Corporation - initial API and implementation
*   Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm
*   Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete
suggestions
*   Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing
*****/

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`/ecj-3-33-0-sources-jar/org/eclipse/jdt/core/compiler/CharOperation.java`

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* Stephan Herrmann - Contributions for

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed via BinaryTypeBinding

*****/

Found

in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedReferenceBinding.java

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* Contributors:
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* Stephan Herrmann - Contribution for
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*****/

Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocQualifiedTypeReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleTypeReference.java
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* Contributors:
* wharley@bea.com - initial API and implementation
* IBM Corporation - fix for 342470
* IBM Corporation - fix for 342598
* IBM Corporation - Java 8 support
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/TypeParameterElementImpl.java
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* Contributors:
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* Stephan Herrmann - Contribution for
* bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
* bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
* bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtype

- * Jesper S Moller - Contributions for
- * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- * Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
- * Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
- * Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
- * Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
- * Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
- * Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
- * Bug 442418 - \$deserializeLambda\$ off-by-one error when deserializing the captured arguments of a lambda that also capture this

*****/

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CodeStream.java

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* Contributors:

* tyeung@bea.com - initial API and implementation

* IBM Corporation - fix for bug 342757

* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithParameterAnnotations.java

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* Perry James - nullStatus method improvement (165346)

* Stephan Herrmann - Contribution for

* bug 383368 - [compiler][null] syntactic null analysis for field references

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/OperatorExpression.java

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*   Patrick Wienands <pwienands@abit.de> - Contribution for bug 393749
*   Stephan Herrmann - Contribution for
*     bug 331649 - [compiler][null] consider null annotations for fields
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Clinit.java

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*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*     Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*     Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*     Bug 425783 - An
internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError
*     Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*     Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/RawTypeBinding.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java
*
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CharArrayCache.java

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* Matt McCutchen - partial fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=122995

* Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411

* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 185682 - Increment/decrement operators mark local variables as read

- * bug 186342 - [compiler][null] Using annotations for null checking
- * bug 365519 - editorial cleanup after
bug 186342 and bug 365387
- * bug 374605 - Unreasonable warning for enum-based switch statements
- * bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation
- * bug 393719 - [compiler] inconsistent warnings on iteration variables
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
- * Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- * Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- * Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- * Bug 426366
- [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- * Bug 427282 - [1.8][compiler] AIOOB (-1) at
org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
- * Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- * Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varargs
- * Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
- * Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
- * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- * Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- * Bug 446442 - [1.8] merge null annotations from super methods
- * Bug 437072 - [compiler][null] Null analysis emits
possibly incorrect warning for new int[][] despite @NonNullByDefault
- * Jesper S Moller - Contributions for
- * bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
- * bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
- * bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
- * Till Brychcy - Contributions for
- * bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ModuleReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PackageVisibilityStatement.java
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*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
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* bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding

* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 416181 - [1.8][compiler][null] Invalid assignment

is not rejected by the compiler

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

* Bug 434600 - Incorrect null analysis error reporting on type parameters

* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>

* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

* Andy Clement - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)

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* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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 * Genady Beriozkin - added support for reporting assignment with no effect
 * Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
 * bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
 * bug 292478 - Report potentially null across variable assignment
 * bug 335093 - [compiler][null] minimal hook for future null annotation support
 * bug 349326 - [1.7] new warning for missing
 try-with-resources
 * bug 186342 - [compiler][null] Using annotations for null checking
 * bug 358903 - Filter practically unimportant resource leak warnings
 * bug 370639 - [compiler][resource] restore the default for resource leak warnings
 * bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
 * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
 * bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
 * bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
 * bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
 * bug 331649 - [compiler][null] consider null annotations for fields
 * bug 383368 - [compiler][null] syntactic null analysis for field references
 * bug 402993 - [null] Follow up of bug 401088: Missing
 warning about redundant null check
 * bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
 checking
 * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 * Bug 427438 - [1.8][compiler] NPE at
 org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
 * Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations
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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/AnnotationMethodDeclaration.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredElement.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java
- *
- /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironment.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathLocation.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ICompilationUnit.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java

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* Stephan Herrmann - Contribution for

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource

* bug 358903 - Filter practically unimportant resource leak warnings

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 400874 - [1.8][compiler] Inference infrastructure

should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"

* Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression

* Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type

* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.

* Bug 435962 - [RC2] StackOverflowError when building

* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable

* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

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 * Stephan Herrmann - Contributions for
 * bug 186342 - [compiler][null] Using annotations for null checking
 * bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
 * bug 331649 - [compiler][null] consider null annotations for fields
 * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 * Bug 415043 - [1.8][null] Follow-up re null type annotations
 after bug 392099
 * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 * Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
 * Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
 * Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
 * Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
 * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
 * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
 * Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
 * Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
 * Andy Clement (GoPivotal,
 Inc) aclement@gopivotal.com - Contributions for
 * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
 work)
 * Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
 * Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
 * Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
 * Jesper S Moller <jesper@selskabet.org> - Contributions for
 * Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
 * Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
 * Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
 * Bug 419209 - [1.8] Repeating container annotations
 should be rejected in the presence of annotation it contains
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*   Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*   Jesper S Moller -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
*****/

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- * Stephan Herrmann - Contributions for
- * bug 186342 - [compiler][null] Using annotations for null checking
- * bug 365519 - editorial cleanup after bug 186342 and bug 365387
- * Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- * Bug 435570 - [1.8][null] @NonNullByDefault

illegally tries to affect "throws E"

- * Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
- * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceFailureException.java

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- * Stephan Herrmann - Contributions for
- * bug 349326 - [1.7] new warning for missing try-with-resources
- * bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- * bug 383368 - [compiler][null] syntactic null analysis for field references
- * bug 402993 - [null] Follow up
- of bug 401088: Missing warning about redundant null check
- * Bug 440282 - [resource] Resource leak detection false negative with empty finally block

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* bug 332637 - Dead Code detection removing code that isn't dead

* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points

* bug 358903 - Filter practically unimportant resource

leak warnings

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

* bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement

* bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try

* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

* bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue

* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch

* Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop

* Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)

* Jesper Steen Moller -

Contributions for

* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*

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*   IBM Corporation - fix for 342936
*   Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*   Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*   Dennis Hendriks - fix for bug 574449.
*   Frits Jalvingh - fix for bug 533830.
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*   Bug 407191 - [1.8] Binary access support for type annotations
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*     Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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* het@google.com - Bug 441790

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

* bug 292478 - Report potentially null across variable assignment

* bug 335093 - [compiler][null] minimal hook for future null annotation support

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 358903 - Filter practically unimportant resource leak warnings

* bug 370639 - [compiler][resource] restore the default for resource leak warnings

* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* bug 383368 - [compiler][null] syntactic null analysis for field references

* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Bug 430150 - [1.8][null] stricter checking against type variables

* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

* Jesper S Moller - Contributions for

* Bug 378674 - "The method can be declared as static" is wrong

* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

* Bug 529556 - [18.3] Add content assist support for 'var' as a type

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

* Bug 426616 - [1.8][compiler] Type Annotations, multiple problems

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*     bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*     bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with
generics (RuntimeException instead of IOException)
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- * David Foerster - patch for toUpperCase as described in https://bugs.eclipse.org/bugs/show_bug.cgi?id=153125

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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contribution for bug 185682 - Increment/decrement operators
mark local variables as read
*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocFieldReference.java
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* Stephan Herrmann - Contributions for

* bug 335093 - [compiler][null] minimal hook for future null annotation support

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs

* bug 368546 - [compiler][resource] Avoid remaining false positives found when

compiling the Eclipse SDK

* bug 370930 - NonNull annotation not considered for enhanced for loops

* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

* bug 331649 - [compiler][null] consider null annotations for fields

* bug 383368 - [compiler][null] syntactic null analysis for field references

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking

* Bug 417758 - [1.8][null] Null safety compromise

during array creation.

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.

* Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions

* Bug 428352 - [1.8][compiler] Resolution errors don't always surface

* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)

* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

* Bug 455723 - Nonnull argument not correctly inferred in loop

* Andy Clement - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredLocalVariable.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java
*
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/GenericXMLWriter.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/core/JDTCompilerAdapter.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java
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*     Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*     Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)

```

- * Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
- Contributions for
- * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- * Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
- * Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
- * Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
- * Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
- * Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
- * Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
- * Bug 434556 - Broken class file generated for incorrect annotation usage
- * Bug 442416
- \$deserializeLambda\$ missing cases for nested lambdas
- * Stephan Herrmann - Contribution for
- * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- * Olivier Tardieu tardieu@us.ibm.com - Contributions for
- * Bug 442416 - \$deserializeLambda\$ missing cases for nested lambdas

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 * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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 * Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
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 * bug 186342 - [compiler][null] Using annotations for null checking
 * bug 367203 - [compiler][null] detect assigning null to nonnull argument
 * bug 365519 - editorial cleanup after bug 186342 and bug 365387
 * bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
 * bug 365531 - [compiler][null] investigate alternative strategy for internally
 encoding nullness defaults
 * bug 388281 - [compiler][null] inheritance of null annotations as an option
 * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 * Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
 * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
 * Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
 * Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
 * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
 * Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
 location
 * Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
 * Bug 443347 - [1.8][null]

@NonNullByDefault should not affect constructor arguments of an anonymous instantiation

- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- * Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
- * Bug 471611 - Error on hover on call to generic method with null annotation
- * Jesper Steen Moller - Contributions for
- * Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing

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jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithTypeAnnotations.java

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*
*       Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
*****/
```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NullAnnotationMatching.java

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*   Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
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*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 370930 - NonNull annotation not considered for enhanced for loops
*****/
```

- * bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- * bug 393719 - [compiler] inconsistent warnings on iteration variables
- * Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- * Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
- * Jesper S Moller - Contribution for
- * bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
- * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/messages.properties
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- * bug 349326 - [1.7] new warning for missing try-with-resources
- * bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
- * bug 186342 - [compiler][null] Using annotations for null checking
- * bug 358903 - Filter practically unimportant resource leak warnings
- * bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
- * bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- * Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- * Jesper S Moller <jesper@selskabet.org> - Contributions for
- * Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- * bug 386692 - Missing "unused" warning on "autowired" fields
- * Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
- * bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeIds.java

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- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

- * Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
- * Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard
- * Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
- * Bug 456924 - StackOverflowError during compilation
- * Bug 462790 - [null] NPE in Expression.computeConversion()
- * Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
- * Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* Stephan Herrmann - Contributions for

* bug 325755 - [compiler] wrong initialization state after conditional expression

* bug 320170 - [compiler] [null] Whitebox issues in null analysis

* bug 292478 - Report potentially null across variable assignment

* bug 332637 - Dead Code detection removing code that isn't dead

* bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()

* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

* Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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* Bug 458396 - NPE in CodeStream.invoke()
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```

Found in path(s):

```

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/FloatUtil.java

```

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*   Walter Harley - Patch for ensuring the parent folders are created

```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java

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* Contributors:

* tyeung@bea.com - initial API and implementation

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 407191 - [1.8] Binary access support for type annotations

*****/

Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithAnnotation.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ProvidesStatement.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IModuleAwareNameEnvironment.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IMultiModuleEntry.java

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- * Contributors:
- * IBM Corporation - initial API and implementation
- * IBM Corporation - added the following constants
- * NonStaticAccessToStaticField
- * NonStaticAccessToStaticMethod
- * Task
- * ExpressionShouldBeAVariable
- * AssignmentHasNoEffect
- * IBM Corporation - added the following constants
- * TooManySyntheticArgumentSlots
- * TooManyArrayDimensions
- * TooManyBytesForStringConstant
- * TooManyMethods
- * TooManyFields
- * NonBlankFinalLocalAssignment
- * ObjectCannotHaveSuperTypes
- * MissingSemiColon
- * InvalidParenthesizedExpression
- * EnclosingInstanceInConstructorCall
- * BytecodeExceeds64KLimitForConstructor
- * IncompatibleReturnTypeForNonInheritedInterfaceMethod
- * UnusedPrivateMethod
- * UnusedPrivateConstructor
- * UnusedPrivateType
- * UnusedPrivateField
- * IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
- * InvalidExplicitConstructorCall
- * IBM Corporation - added the following constants
- * PossibleAccidentalBooleanAssignment
- * SuperfluousSemicolon
- * IndirectAccessToStaticField
- * IndirectAccessToStaticMethod
- * IndirectAccessToStaticType
- * BooleanMethodThrowingException
- * UnnecessaryCast
- * UnnecessaryArgumentCast
- * UnnecessaryInstanceOf
- *

```

FinallyMustCompleteNormally
*      UnusedMethodDeclaredThrownException
*      UnusedConstructorDeclaredThrownException
*      InvalidCatchBlockSequence
*      UnqualifiedFieldAccess
*      IBM Corporation - added the following constants
*      Javadoc
*      JavadocUnexpectedTag
*      JavadocMissingParamTag
*      JavadocMissingParamName
*      JavadocDuplicateParamName
*      JavadocInvalidParamName
*      JavadocMissingReturnTag
*      JavadocDuplicateReturnTag
*      JavadocMissingThrowsTag
*      JavadocMissingThrowsClassName
*      JavadocInvalidThrowsClass
*      JavadocDuplicateThrowsClassName
*      JavadocInvalidThrowsClassName
*      JavadocMissingSeeReference
*      JavadocInvalidSeeReference
*      JavadocInvalidSeeHref
*      JavadocInvalidSeeArgs
*      JavadocMissing
*      JavadocInvalidTag
*      JavadocMessagePrefix
*      EmptyControlFlowStatement
*      IBM Corporation - added the following constants
*      IllegalUsageOfQualifiedTypeReference
*      InvalidDigit
*      IBM Corporation - added the following constants
*      ParameterAssignment
*      FallthroughCase
*      IBM Corporation - added the following constants
*      UnusedLabel
*      UnnecessaryNLSTag
*      LocalVariableMayBeNull
*      EnumConstantsCannotBeSurroundedByParenthesis
*      JavadocMissingIdentifier
*      JavadocNonStaticTypeFromStaticInvocation
*      RawTypeReference
*      NoAdditionalBoundAfterTypeVariable
*      UnsafeGenericArrayForVarargs
*      IllegalAccessFromTypeVariable
*
AnnotationValueMustBeArrayInitializer
*      InvalidEncoding
*      CannotReadSource

```

- * EnumStaticFieldInInitializerContext
- * ExternalProblemNotFixable
- * ExternalProblemFixable
- * IBM Corporation - added the following constants
- * AnnotationValueMustBeAnEnumConstant
- * OverridingMethodWithoutSuperInvocation
- * MethodMustOverrideOrImplement
- * TypeHidingTypeParameterFromType
- * TypeHidingTypeParameterFromMethod
- * TypeHidingType
- * IBM Corporation - added the following constants
- * NullLocalVariableReference
- * PotentialNullLocalVariableReference
- * RedundantNullCheckOnNullLocalVariable
- * NullLocalVariableComparisonYieldsFalse
- * RedundantLocalVariableNullAssignment
- * NullLocalVariableInstanceOfYieldsFalse
- * RedundantNullCheckOnNonNullLocalVariable
- * NonNullLocalVariableComparisonYieldsFalse
- * IBM Corporation - added the following constants
- * InvalidUsageOfTypeParametersForAnnotationDeclaration
- * InvalidUsageOfTypeParametersForEnumDeclaration
- * IBM Corporation - added the following constants
- * RedundantSuperinterface
- * Benjamin Muskalla - added the following constants
- * MissingSynchronizedModifierInInheritedMethod
- * Stephan Herrmann - added the following constants
- * UnusedObjectAllocation
- * PotentiallyUnclosedCloseable
- * PotentiallyUnclosedCloseableAtExit
- * UnclosedCloseable
- * UnclosedCloseableAtExit
- * ExplicitlyClosedAutoCloseable
- * RequiredNonNullButProvidedNull
- * RequiredNonNullButProvidedPotentialNull
- * RequiredNonNullButProvidedUnknown
- * NullAnnotationNameMustBeQualified
- * IllegalReturnNullityRedefinition
- * IllegalRedefinitionToNonNullParameter
- * IllegalDefinitionToNonNullParameter
- * ParameterLackingNonNullAnnotation
- * ParameterLackingNullableAnnotation
- * PotentialNullMessageSendReference
- * RedundantNullCheckOnNonNullMessageSend
- * CannotImplementIncompatibleNullness
- * RedundantNullAnnotation
- * RedundantNullDefaultAnnotation
- * RedundantNullDefaultAnnotationPackage

- * RedundantNullDefaultAnnotationType
- * RedundantNullDefaultAnnotationMethod
- * ContradictoryNullAnnotations
- * IllegalAnnotationForBaseType
- * RedundantNullCheckOnSpecdNonNullLocalVariable
- * SpecdNonNullLocalVariableComparisonYieldsFalse
- * RequiredNonNullButProvidedSpecdNullable
- * MissingDefaultCase
- * MissingEnumConstantCaseDespiteDefault
- * UninitializedLocalVariableHintMissingDefault
- * UninitializedBlankFinalFieldHintMissingDefault
- * ShouldReturnValueHintMissingDefault
- * IllegalModifierForInterfaceDefaultMethod
- * InheritedDefaultMethodConflictsWithOtherInherited
- * ConflictingNullAnnotations
- * ConflictingInheritedNullAnnotations
- * UnsafeElementTypeConversion
- * ArrayReferencePotentialNullReference
- * DereferencingNullableExpression
- * NullityMismatchingTypeAnnotation
- * NullityMismatchingTypeAnnotationSuperHint
- * NullityUncheckedTypeAnnotationDetail
- * NullityUncheckedTypeAnnotationDetailSuperHint
- * NullableFieldReference
- * UninitializedNonNullField
- * UninitializedNonNullFieldHintMissingDefault
- * NonNullMessageSendComparisonYieldsFalse
- * RedundantNullCheckOnNonNullSpecdField
- * NonNullSpecdFieldComparisonYieldsFalse
- * NonNullExpressionComparisonYieldsFalse
- * RedundantNullCheckOnNonNullExpression
- * ReferenceExpressionParameterNullityMismatch
- * ReferenceExpressionParameterNullityUnchecked
- * ReferenceExpressionReturnNullRedef
- * ReferenceExpressionReturnNullRedefUnchecked
- * DuplicateInheritedDefaultMethods
- * SuperAccessCannotBypassDirectSuper
- * SuperCallCannotBypassOverride
- * ConflictingNullAnnotations
- * ConflictingInheritedNullAnnotations
- * UnsafeElementTypeConversion
- * PotentialNullUnboxing
- * NullUnboxing
- * NullExpressionReference
- * PotentialNullExpressionReference
- * RedundantNullCheckAgainstNonNullType
- * NullAnnotationUnsupportedLocation
- * NullAnnotationUnsupportedLocationAtType

```

* NullityMismatchTypeArgument
* ContradictoryNullAnnotationsOnBound
* UnsafeNullnessCast
*   ContradictoryNullAnnotationsInferred
*   NonNullDefaultDetailIsNotEvaluated
*   NullNotCompatibleToFreeTypeVariable
*   NullityMismatchAgainstFreeTypeVariable
*   ImplicitObjectBoundNoNullDefault
*   IllegalParameterNullityRedefinition
*   ContradictoryNullAnnotationsInferredFunctionType
*   IllegalReturnNullityRedefinitionFreeTypeVariable
*   UnlikelyCollectionMethodArgumentType
*   UnlikelyEqualsArgumentType
* Jesper S Moller - added the following constants
*   TargetTypeNotAFunctionalInterface
*   OuterLocalMustBeEffectivelyFinal
*   IllegalModifiersForPackage
*   DuplicateAnnotationNotMarkedRepeatable
*   DisallowedTargetForContainerAnnotation
*   RepeatedAnnotationWithContainerAnnotation
*   ContainingAnnotationMustHaveValue
*   ContainingAnnotationHasNonDefaultMembers
*   ContainingAnnotationHasWrongValueType
*   ContainingAnnotationHasShorterRetention
*   RepeatableAnnotationHasTargets
*   RepeatableAnnotationTargetMismatch
*   RepeatableAnnotationIsDocumented
*   RepeatableAnnotationIsInherited
*   RepeatableAnnotationWithRepeatingContainerAnnotation
*   VarLocalMultipleDeclarators
*   VarLocalCannotBeArray
*   VarLocalReferencesItself
*   VarLocalWithoutInitializer
*   VarLocalInitializedToNull
*   VarLocalCannotBeArrayInitializers
*   VarLocalCannotBeLambda
*   VarLocalCannotBeMethodReference
*   VarIsReserved
*   VarIsReservedInFuture
*   VarIsNotAllowedHere
*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/core/compiler/IProblem.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SwitchExpression.java
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* Contributors:
* Stefan Xenos <sxenos@gmail.com> (Google) - initial API and implementation
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ExternalAnnotationDecorator.java

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* IBM Corporation - Java 8 support

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/PrimitiveTypeImpl.java

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```
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileManager.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileManager.java
```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AptBinaryLocalVariableBinding.java
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*   Kenneth Olson - initial API and implementation
*   Dennis Hendriks - initial API and implementation
*   IBM Corporation - Contribution for bug 188796
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJsr199.java
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* Stephan Herrmann - Contributions for

* bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding

* Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)

* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 415043 - [1.8][null] Follow-up re null type

annotations after bug 392099

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

* Bug 434600 - Incorrect null analysis error reporting on type parameters

* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>

* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

* Andy Clement - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)

*****/

Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedSingleTypeReference.java

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

- * Bug 328281 - visibility leaks not detected when analyzing unused field in private class
- * Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
- * Bug 354536 - compiling package-info.java still depends on the order of compilation units
- * Bug 349326 - [1.7] new warning for missing try-with-resources
- * Bug
- 358903 - Filter practically unimportant resource leak warnings
- * Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
- * Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- * Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- * Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
- * Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens "sometimes"
- * Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com -
- Contributions for
- * Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
- * het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
- * Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
- * Bug 473178

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ClassScope.java

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* Stephan Herrmann - Contributions for

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* bug 388281 - [compiler][null] inheritance of null annotations as an option

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

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Found

in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TagBits.java

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 328281 - visibility leaks not detected when analyzing unused field in private class

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365836 - [compiler][null] Incomplete propagation of null defaults.

* bug 365519 - editorial cleanup after bug 186342

and bug 365387

* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

* bug 366063 - Compiler should not add synthetic @NonNull annotations

* bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)

* bug 386356 - Type mismatch error with annotations and generics

* bug 388281 - [compiler][null] inheritance of null annotations as an option

* bug 331649 - [compiler][null] consider null annotations for fields

* bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.

* bug 391376 - [1.8] check interaction of default methods with bridge methods and generics

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled

* Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

* Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8

* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

* Bug 441693 - [1.8][null]

Bogus warning for type argument annotated with @NonNull

* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?

- * Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
- * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- * Jesper S Moller <jesper@selskabet.org> - Contributions for
- * Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * Till Brychcy - Contributions for
- * bug 415269 - NonNullByDefault is not always inherited to nested classes
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
- * Sebastian Zarnekow - Contributions
- for
- * bug 544921 - [performance] Poor performance with large source files

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeBinding.java

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- * IBM Corporation - fix for 342598

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- * Stephan Herrmann - Contribution for bug 295551
- * Jesper S Moller - Contributions for
- * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- * Frits Jalvingh - contributions for bug 533830.
- * Red Hat Inc. - add module-info Javadoc support

*****/

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CompilationUnitDeclaration.java

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- * Stephan Herrmann - Contribution for
- * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- * bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
- * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- * Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/ExceptionHandlingFlowContext.java

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* Stephan Herrmann - Contributions for

* bug 292478 - Report potentially null across variable assignment

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

* bug 331649 - [compiler][null] consider null annotations for fields

* bug 383368 - [compiler][null] syntactic null analysis for field

references

* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 426792 - [1.8][inference][impl] generify new type inference engine

* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Bug 426996 - [1.8][inference]

try to avoid method Expression.unresolve()?

* Bug 428274 - [1.8] [compiler] Cannot cast from Number to double

* Bug 428352 - [1.8][compiler] Resolution errors don't always surface

* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

* Bug 473178
*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/NameImpl.java

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* IBM Corporation - fix for 342598

* IBM Corporation - Java 8 support

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TextBlock.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ComponentInfoWithTypeAnnotation.java

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*   Christoph Läubrich - use Filesystem helper method
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* Contributors:

* IBM Corporation - initial API and implementation

* Benjamin Muskalla - Contribution for bug 239066

* Stephan Herrmann - Contributions for

* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used

* bug 295551 - Add option to automatically promote all warnings to errors

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug

370639 - [compiler][resource] restore the default for resource leak warnings

* bug 366063 - Compiler should not add synthetic @NonNull annotations

* bug 374605 - Unreasonable warning for enum-based switch statements

* bug 388281 - [compiler][null] inheritance of null annotations as an option

* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated

* bug 383368 - [compiler][null] syntactic null analysis for field references

* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),

Collection#remove(Object) et al.

* Jesper Steen Moller - Contributions for

* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code

* bug 407297 - [1.8][compiler] Control generation of parameter names by option

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/CompilerOptions.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementImpl.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchAnnotationProcessorManager.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ClassFilePool.java

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array

* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references

*

Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

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*   Benjamin Muskalla - Contribution for bug 239066
*   Stephan Herrmann - Contribution for
*       bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*       bug 388954 - [1.8][compiler] detect default methods in class files
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs
to be declared abstract
*       bug 390883 - [1.8][compiler] Unable to override default method
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*       bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
*       bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*       Bug 420080 - [1.8] Overridden Default method is reported as duplicated
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier.java
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*       Bug 407191 - [1.8] Binary access support for type annotations
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*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*     Bug 417295 - [1.8][null] Massage type annotated
    null analysis to gel well with deep encoded type bindings.
*     Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* Stephan Herrmann - Contribution for

* bug 331649 - [compiler][null] consider null annotations for fields

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?

* Jesper S Moller - Contributions for

* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment

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* Stephan Herrmann - Contributions for

* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

* bug 186342 - [compiler][null] Using annotations for null checking

- * bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
- * bug 370639 - [compiler][resource] restore the default for resource leak warnings
- * bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- * bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- * Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- * Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- * Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- * Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- * Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
- * Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- * Bug 427438 - [1.8][compiler]

NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

- * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ExplicitConstructorCall.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/BinaryModuleBinding.java
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- * Stephan Herrmann - Contribution for
- * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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- * Stephan Herrmann - Contributions for

- * bug 186342 - [compiler][null] Using annotations for null checking

- * bug 387612 - Unreachable catch block...exception is never thrown from the try

- * bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

- * bug 401456 - Code compiles from javac/intellij, but fails from eclipse

- * bug 401271 - StackOverflowError

when searching for a methods references

- * bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic

- * Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the interface type as the last parameter

- * Bug 413958 - Function override returning inherited Generic Type

- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

- * Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations

- * Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

- * Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding

- * Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation

- * Bug 424415 - [1.8][compiler]

Eventual resolution of ReferenceExpression is not seen to be happening.

- * Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context

- * Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?

- * Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument

- * Bug 426590 - [1.8][compiler] Compiler error with ternary operator

- * Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler

- * Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments

(java.lang.Class, java.lang.String)

- * Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
- * Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
- * Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- * Bug
- 427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
- * Bug 427218 - [1.8][compiler] Verify error varargs + inference
- * Bug 426836 - [1.8] special handling for return type in references to method getClass()?
- * Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
- * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- * Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type

Bindings

- * Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
- * Bug 428811 - [1.8][compiler] Type witness unnecessarily required
- * Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
- * Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- * Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- * Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
- * Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
- * Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
- * Jesper S Moller - Contributions for
- * Bug 378674 - "The method can be declared as static" is wrong
- * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- * Andy Clement (GoPivotal, Inc)
- aclement@gopivotal.com - Contributions for
- * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
- * Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
- * Bug 559618 - No compiler warning for import from same package
- * Bug 560630 - No warning on unused import on class from same package

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Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/Scope.java

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* tyeung@bea.com - initial API and implementation

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfo.java

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* Stephan Herrmann - Contribution for

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/SwitchFlowContext.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java

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* Bug 440474 - [null] textual encoding of external null annotations

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SignatureWrapper.java

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*       bug 383368 - [compiler][null] syntactic null analysis for field references
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NullLiteral.java

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*   Stephan Herrmann - Contributions for
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 364890 - BinaryTypeBinding should use char constants from Util
*       bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug
365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 388800 - [1.8][compiler] detect default methods in class files
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

```

- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- * Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- * Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- * Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
- * Bug 392245 - [1.8][compiler][null] Define whether
/ how @NonNullByDefault applies to TYPE_USE locations
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
- * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- * Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
- * Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
- * Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
- * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
- * Bug 454182 - Internal compiler error when using
1.8 compliance for simple project
- * Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
- * Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning
- * Jesper Steen Moller - Contributions for
- * Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
- * Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * Sebastian Zarnekow - Contributions for
- * bug 544921 - [performance] Poor performance with large source files
- * Alexander Lehmann - Contributions for
- * bug 566258 - Intermittent NPE in APT RoundDispatcher

*****/

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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/UnionTypeReference.java

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*     Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*     Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability
analysis
*     Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*   Till Brychcy - Contribution for
*     Bug 473713
- [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1
*****/
/* Cache the derived type, tagging it as a derivative of both the key type and the naked type.
   E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not
   needed for correctness, but for annotated object reuse. We provide two alternate ways to
   annotate a type:

Taking parameterized types as an example, a call to getParamaterizedType can be made with annotations
to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first
and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as
the key, in the latter with List<String> as the key.

Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these
alternate code paths. Unless care is exercised,
we will end up with duplicate objects (that share
the same TypeBinding.id => correctness is not an issue, but memory wastage is)
*/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeSystem.java
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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

```

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/ExceptionLabel.java

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* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking

* Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 407191 - [1.8] Binary access support for type annotations

*****/

Found

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfo.java

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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ArrayQualifiedTypeReference.java

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* Jesper S Moller - Contributions for

* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

* Stephan Herrmann - Contribution for

* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 416182 - [1.8][compiler][null]

Contradictory null annotations not rejected

*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemReasons.java

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* bug 407191 - [1.8] Binary access support for type annotations

* Stephan Herrmann - Contribution for

* Bug 440474 - [null] textual encoding of external null annotations

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryType.java

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*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemMethodBinding.java
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*     bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*     Bug 415850 - [1.8] Ensure RunJDTCoreTests
    can cope with null annotations enabled
*     Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*     Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varargs
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*     Bug 434600 - Incorrect null analysis error reporting on type parameters
*     Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type

```

- * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- * Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
- * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- * Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
- * Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
- * Jesper S Møller <jesper@selskabet.org> - Contributions for
- * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- * bug 529556 - [18.3] Add content assist support for 'var' as a type
- *

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* Stephan Herrmann - Contributions for

* bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)

* bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods

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- * bug 186342 - [compiler][null] Using annotations for null checking
- * bug 365519 - editorial cleanup after bug 186342 and bug 365387
- * bug 388281 - [compiler][null] inheritance of null annotations as an option
- * bug 388795 - [compiler] detection of name clash depends on order of super interfaces
- * bug 388739 - [1.8][compiler] consider default methods when detecting whether
- a class needs to be declared abstract
- * bug 390883 - [1.8][compiler] Unable to override default method
- * bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- * bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
- * bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
- * bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
- * bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
- * bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
- * bug 409473 - [compiler] JDT cannot compile against JRE 1.8
- * Bug 420080 - [1.8] Overridden Default method is reported as duplicated
- * Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
- * Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
- * Bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in @NonNullByDefault
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 446442 - [1.8] merge null annotations from super methods

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 * Tom Tromey - Contribution for bug 159641
 * Benjamin Muskalla - Contribution for bug 239066
 * Stephan Herrmann - Contributions for
 * bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
 * bug 295551 - Add option to automatically promote all warnings to errors
 * bug 359721 - [options] add command line option
 for new warning token "resource"
 * bug 365208 - [compiler][batch] command line options for annotation based null analysis
 * bug 374605 - Unreasonable warning for enum-based switch statements
 * bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
 * bug 388281 - [compiler][null] inheritance of null annotations as an option
 * bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
 * Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
 * Bug 440687 - [compiler][batch][null] improve command line option for external annotations
 * Bug 408815 - [batch][null] Add CLI option for
 COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
 * Jesper S Moller - Contributions for
 * bug 407297 - [1.8][compiler] Control generation of parameter names by option
 * Mat Booth - Contribution for bug 405176
 * Frits Jalvingh -
 fix for bug 533830.

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- * IBM Corporation - initial API and implementation
- * Stephan Herrmann - Contributions for
- * bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
- * bug 186342 - [compiler][null] Using annotations for null checking
- * bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- * bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- * bug 345305 - [compiler][null]

Compiler misidentifies a case of "variable can only be null"

- * bug 383368 - [compiler][null] syntactic null analysis for field references
- * bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
- * bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
- * bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- * Bug 455723 - Nonnull argument not correctly inferred in loop
- * Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
- * Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode

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Found in path(s):

- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/FlowContext.java

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJmod.java

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*   Stephan Herrmann - Contribution for
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
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```

Found

in path(s):

```
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ArrayReference.java
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*   Christoph Läubrich - use Filesystem helper method
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJep247Jdk12.java
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*   IBM Corporation - initial API and implementation
*   Stephan Herrmann - Contributions for
*     bug 349326 - [1.7] new warning for missing try-with-resources
```

- * bug 374605 - Unreasonable warning for enum-based switch statements
- * bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
- * bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier
- * bug 401030 - [1.8][null] Null analysis support for lambda methods.
- * Bug
- 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Jesper S Moller - Contributions for
- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

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Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MethodScope.java

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- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- * Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ArrayTypeReference.java

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- * Stephan Herrmann - Contribution for
- * bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
- * bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
- * Jesper S Moller <jesper@selskabet.org> - Contributions for
- * bug 378674 - "The method can be declared as static" is wrong

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in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedThisReference.java

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* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365519 - editorial cleanup after bug 186342 and bug 365387

* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/PackageBinding.java

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* Frits Jalvingh - fix for bug 533830.

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveryScannerData.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceSubstitution.java

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* Stephan Herrmann - Contributions for

* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365835 - [compiler][null] inconsistent error reporting.

* bug 365519 - editorial cleanup after bug 186342 and bug 365387

* bug 358903 - Filter practically unimportant resource leak warnings

* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 370639 - [compiler][resource] restore the default for resource leak warnings

* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

* bug 383368 - [compiler][null] syntactic null analysis for field references

* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

* bug 401030 - [1.8][null] Null analysis support for lambda

methods.

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking

* Bug 417758 - [1.8][null] Null safety compromise during array creation.

- * Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- * Bug 430150 - [1.8][null] stricter checking against type variables
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- * Bug 455723 - Nonnull argument not correctly inferred in loop
- * Jesper S Moller - Contributions

for

- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ReturnStatement.java

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- * Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
- * bug 328281 - visibility leaks not detected when analyzing unused field in private class

* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ExtraCompilerModifiers.java

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* Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing

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* Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)

* Stephan Herrmann - Contributions for

* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* bug

383368 - [compiler][null] syntactic null analysis for field references

* bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning

* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- * Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- * Bug 430150 - [1.8][null] stricter checking against type variables
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style
null annotations
- * Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CaseLabel.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java
- *
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IDependent.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ICompilerRequestor.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/MagicLiteral.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredImport.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java
*
/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/DoubleCache.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilation.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceImport.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortMethod.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocReturnStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java
*
/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/LongCache.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedFieldBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/ShouldNotImplement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToInt.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToIntArray.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/StringLiteralConcatenation.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/IntegerCache.java
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*
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortType.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/OperatorIds.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java
*
/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/RecordComponentInfo.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ExportsStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExportsStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ModuleStatement.java
*
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredOpensStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredPackageVisibilityStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredTypeReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java

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 * Stephan Herrmann - Contribution for
 * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
 * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
 * Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
 generator

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntersectionCastTypeReference.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java
 * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java
 * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ImportReference.java
 * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceType.java
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 * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
 * Bug 407191 - [1.8] Binary access support for type annotations

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Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java
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* Contributors:
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* Stephan Herrmann - contributions for
* bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 365859 - [compiler][null]
distinguish warnings based on flow analysis vs. null annotations
* bug 385626 - @NonNull fails across loop boundaries
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 376263 - Bogus "Potential null pointer access" warning
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
* bug 406384 - Internal error with I20130413
* Bug 415413 - [compiler][null] NullPointerException in Null Analysis caused by interaction of
LoopingFlowContext and FinallyFlowContext
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
* Bug 421035 - [resource]
False alarm of resource leak warning when casting a closeable in its assignment
* Jesper S Moller - contributions for
* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/LoopingFlowContext.java
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*   Jesper S Moller - Bug 392671
*   NPE with a method with explicit this and a following incomplete parameter
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* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/NullTypeBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/VoidTypeBinding.java
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* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

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* Bug 428811 - [1.8][compiler] Type witness unnecessarily required

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/PolyTypeBinding.java

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* Frits Jalvingh - fix for bug 533830.

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationBinding.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ASTVisitor.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/Messages.java

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 * Jesper S Moller - Contributions for
 * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
 * Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
 * Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
 * Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
 * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
 * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
 * Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException:
 "Invalid lambda deserialization"
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/ConstantPool.java

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*       bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*       bug 368546 - [compiler][resource] Avoid
```

remaining false positives found when compiling the Eclipse SDK

- * bug 383690 - [compiler] location of error re uninitialized final field should be aligned
- * bug 331649 - [compiler][null] consider null annotations for fields
- * bug 383368 - [compiler][null] syntactic null analysis for field references
- * bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
- * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- * Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
- * Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- * bug 386692 - Missing "unused" warning on "autowired" fields

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*   Bug 378674 - "The method can be declared as static" is wrong
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- * bug 186342 - [compiler][null] Using annotations for null checking
- * bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- * bug 413958 - Function override returning inherited Generic Type
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- * Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
- * Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- * Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
- * Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
- * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- * Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
- * Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- * Bug 446442 - [1.8] merge null annotations from super methods
- * Bug 457079 - Regression: type inference

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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 345305 - [compiler][null]
*       Compiler misidentifies a case of "variable can only be null"
*       Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first
*       field
*       Bug 458396 - NPE in CodeStream.invoke()
*   Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedNameReference.java
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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/CharDelegateMap.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/CharArrayHashMap.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/CharArrayMapper.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/Substitution.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/OpensStatement.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java

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* IBM Corporation - initial API and implementation

* Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196

* Stephan Herrmann - Contributions for

* bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)

* bug 374605 - Unreasonable warning for enum-based switch statements

* bug 393719 - [compiler] inconsistent warnings on iteration variables

* bug 382353 - [1.8][compiler] Implementation property modifiers

should be accepted on default methods.

* bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods

* bug 401035 - [1.8] A few tests have started failing recently

* Jesper S Moller - Contributions for

* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

* bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods

* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration

* bug 393192 - Incomplete type hierarchy with > 10 annotations

* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

* Andy Clement - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

*

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* Contributors:

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* Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously

* bug 292478 - Report potentially null across variable assignment

* bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself

* bug 354554 - [null] conditional with redundant condition

yields weak error message

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

* bug 383368 - [compiler][null] syntactic null analysis for field references

* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions

* Bug 428352 - [1.8][compiler] Resolution errors don't always surface

* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ConditionalExpression.java

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
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* Contributors:
* IBM Corporation - initial API and implementation
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* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJar.java
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- * wharley@bea.com - initial API and implementation
- * IBM Corporation - Fix for bug 341494
- * IBM Corporation - Fix for bug 328575
- * IBM Corporation - Java 8 support

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementsImpl.java

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* Stephan Herrmann - Contribution for

* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/BaseTypeBinding.java

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*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocImplicitTypeReference.java

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ElementValuePair.java

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*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   Jesper S Moller - Contributions for
*     bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CompoundAssignment.java

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*   Stephan Herrmann - Contributions for
*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 365519 - editorial cleanup after bug 186342 and bug 365387
*     Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
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`/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/MemberValuePair.java`

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 * bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
 * bug 383368 - [compiler][null] syntactic null analysis for field references
 * bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
 * bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
 * Bug
 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
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* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
* IBM Corporation - Bug fixes
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* Erling Ellingsen - patch for bug 125570
* Stephan Herrmann - Contribution for
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Sebastian Zarnekow - Contribution for

* Bug 544921 - [performance] Poor performance with large source files

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java

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* Stephan Herrmann - Contributions for

* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 370639 - [compiler][resource] restore the default for resource leak warnings

* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

* Bug 417758 - [1.8][null] Null safety compromise during array creation.

* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's

work)

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource

* bug 358903 - Filter practically unimportant resource leak warnings

* bug 395002 - Self bound generic class

doesn't resolve bounds properly for wildcards for certain parametrisation.

* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 426792 - [1.8][inference][impl] generify new type inference engine

* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.

* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds

* Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName

* Bug 431408 - Java 8 (1.8) generics bug

* Bug 435962 - [RC2] StackOverFlowError when building

* Bug

438458 - [1.8][null] clean up handling of null type annotations wrt type variables

* Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict

* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.

* Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables

* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable

* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis

* Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics

* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief

* Bug 462790 - [null] NPE in Expression.computeConversion()

* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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* Contributors:
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* Stephan Herrmann - Contribution for
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
* Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Andy
Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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*   Stephan Herrmann - Contributions for
*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 331649 - [compiler][null] consider null annotations for fields
*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*     bug 403086 - [compiler][null] include the effect of 'assert'
in syntactic null analysis for fields
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* IBM Corporation - initial API and implementation

* Stephan Herrmann - contributions for

* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* bug

392862 - [1.8][compiler][null] Evaluate null annotations on array types

* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 415850 - [1.8] Ensure RunJDTCORETests can cope with null annotations enabled

* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations

* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking

* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

* Bug 416190 - [1.8][null]

detect incompatible overrides due to null type annotations

* Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown

* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

- * Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
- * Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
- * Bug 457079 - Regression: type inference
- * Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
- * Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
- * Bug 470467 - [null] Nullness of special Enum methods not detected from .class file

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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Found in path(s):

* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/AnnotationContext.java

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/GuardedPattern.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/RecordPattern.java

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* Stephan Herrmann - Contributions for

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365519 - editorial cleanup after bug 186342 and bug 365387

* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 382353 - [1.8][compiler] Implementation property modifiers should

be accepted on default methods.

* bug 383368 - [compiler][null] syntactic null analysis for field references

* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location

* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

* Jesper S Moller <jesper@selskabet.org> - Contributions for

* bug 378674 - "The method can be declared as static" is wrong

* bug 413873 - Warning "Method can be static" on method referencing a non-static inner class

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Found in path(s):

- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/MethodDeclaration.java

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 *
 * Contributors:
 * wharley@bea.com - initial API and implementation
 * IBM Corporation - fix for 342598
 * IBM Corporation - Java 8 support
 * het@google.com - Bug 427943 - The method
 org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException
 *****/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/Factory.java

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* Benjamin Muskalla - Contribution for bug 239066

* Stephan Herrmann - Contributions for

* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used

* bug 338303 - Warning about Redundant assignment conflicts with definite assignment

* bug 349326 - [1.7] new warning for missing try-with-resources

* bug 186342 - [compiler][null] Using annotations for null checking

* bug 365519 - editorial cleanup after bug 186342 and bug 365387

* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

* bug 374605 - Unreasonable warning for enum-based switch statements

* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.

* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance

* bug 388281 - [compiler][null] inheritance of null annotations as an option

* bug 376053 - [compiler][resource] Strange potential resource leak problems

* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated

* bug 393719 - [compiler] inconsistent warnings on iteration

variables

* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

- * bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared abstract
- * bug 331649 - [compiler][null] consider null annotations for fields
- * bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
- * bug 376590 - Private fields with @Inject are ignored by unused field validation
- * bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
- * bug 402028 - [1.8][compiler] null analysis for reference expressions
- * bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
- * bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
- * bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- * Bug
- 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- * Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
- * Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- * Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
- * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- * Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- * Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
- * Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
- * Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type
- Bindings
- * Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
- * Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
- * Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
- * Bug 430150 - [1.8][null] stricter checking against type variables
- * Bug 434600 - Incorrect null analysis error reporting on type parameters
- * Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
- * Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding method _ due to incompatible nullness constraints"
- * Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault in package-info.java
- * Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- * Bug 446442 - [1.8] merge null annotations from super methods
- * Bug 455723 - Nonnull argument not correctly inferred in loop
- * Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
- * Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- * Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
- * Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- * Jesper S Moller <jesper@selskabet.org> - Contributions for
- * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- * bug 382721 - [1.8][compiler] Effectively final variables needs

special treatment

- * bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
- * bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- * bug 412151 - [1.8][compiler] Check repeating annotation's collection type
- * bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
- * Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
- * Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
- * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- * Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- * bug 386692 - Missing "unused" warning on "autowired" fields

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/ProblemReporter.java

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/AbstractCommentParser.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java
- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java
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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java

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* Stephan Herrmann - Contribution for

* bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code

* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()

* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 405104 -

[1.8][compiler][codegen] Implement support for serializable lambdas

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- * /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticMethodBinding.java

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* Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SynchronizedStatement.java

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

* bug 292478 - Report potentially null across variable assignment,

* bug 185682 - Increment/decrement operators mark local variables as read

* bug 331649 - [compiler][null] consider null annotations for fields

* bug 383368 - [compiler][null] syntactic null analysis for field references

* Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:

info cannot be null

* Bug 458396 - NPE in CodeStream.invoke()

* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

* Jesper S Moller - <jesper@selskabet.org> - Contributions for

* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment

* bug 378674 - "The method can be declared as static" is wrong

* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops

* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SingleNameReference.java

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- web-app_6_0.xsd
- web-commonn_5_0.xsd
- web-commonn_6_0.xsd
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
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- jsp_2_3.xsd
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- web-common_3_1.xsd
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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd

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- web-app_3_1.xsd
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd

- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
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- jakartaee_9.xsd
- jakartaee_10.xsd
- jakarta_web-services_2_0.xsd
- jakarta_web-services_client_2_0.xsd
- jsp_3_0.xsd
- jsp_3_1.xsd
- web-app_5_0.xsd
- web-app_6_0.xsd
- web-commonn_5_0.xsd
- web-commonn_6_0.xsd
- web-fragment_5_0.xsd
- web-fragment_6_0.xsd
-
- web-jsptaglibrary_3_0.xsd
- web-jsptaglibrary_3_1.xsd

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1.200 accessors-smart 2.4.11

1.200.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bnd-LastModified: 1684383846344

Build-Jdk: 11.0.18

Built-By: uriel

Bundle-Description: Java reflect give poor performance on getter setter
an constructor calls, accessors-smart use ASM to speed up those calls.
Bundle-DocURL: <https://urielch.github.io/>
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>
Bundle-ManifestVersion: 2
Bundle-Name: accessors-smart
Bundle-SymbolicName: net.minidev.accessors-smart
Bundle-Vendor: Chemouni Uriel
Bundle-Version: 2.4.11
Created-By: Apache Maven Bundle Plugin
Export-Package: net.minidev.asm;uses="org.objectweb.asm";version="2.4.11",net.minidev.asm.ex;version="2.4.11"
Import-Package: org.objectweb.asm;version="[8.0,10)",net.minidev.asm.ex
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /accessors-smart-2-4-11-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /accessors-smart-2-4-11-jar/META-INF/maven/net.minidev/accessors-smart/pom.xml

1.201 jackson-module-parameter-names

2.13.5

1.201.1 Available under license :

Apache-2.0

1.202 snappy-java 1.1.10.4

1.202.1 Available under license :

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Manifest-Version: 1.0

Bnd-LastModified: 1695510918634

Bundle-ActivationPolicy: lazy

Bundle-Activator: org.xerial.snappy.SnappyBundleActivator

Bundle-Description: snappy-java: A fast compression/decompression library

Bundle-DocURL: <http://www.xerial.org/>

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: snappy-java: A fast compression/decompression library

Bundle-NativeCode: org/xerial/snappy/native/Windows/x86_64/snappyjava.dll;osname=win32;processor=x86-64,org/xerial/snappy/native/Windows/x86_64/snappyjava.dll;osname=win32;processor=x64,org/xerial/snappy/native/Windows/x86_64/snappyjava.dll;osname=win32;processor=amd64,org/xerial/snappy/native/Windows/x86/snappyjava.dll;osname=win32;processor=x86,org/xerial/snappy/native/Mac/x86/libsnappyjava.jnilib;osname=macosx;processor=x86,org/xerial/snappy/native/Mac/x86_64/libsnappyjava.dylib;osname=macosx;processor=x86-64,org/xerial/snappy/native/Mac/aarch64/libsnappyjava.dylib;osname=macosx;processor=aarch64,org/xerial/snappy/native/Linux/x86_64/libsnappyjava.so;osname=linux;processor=x86-64,org/xerial/snappy/native/Linux/x86_64/libsnappyjava.so;osname=linux;processor=x64,org/xerial/snappy/native/Linux/x86_64/libsnappyjava.so;osname=linux;processor=amd64,org/xerial/snappy/native/Linux/x86/libsnappyjava.so;osname=linux;processor=x86,org/xerial/snappy/native/Linux/aarch64/libsnappyjava.so;osname=linux;processor=aarch64,org/xerial/snappy/native/Linux/riscv64/libsnappyjava.so;osname=linux;processor=riscv64,org/xerial/snappy/native/Linux/arm/libsnappyjava.so;osname=linux;processor=arm,org/xerial/snappy/native/Linux/armv7/libsnappyjava.so;osname=linux;processor=arm_le,org/xerial/snappy/native/Linux/ppc64/libsnappyjava.so;osname=linux;processor=ppc64le,org/xerial/snappy/native/Linux/s390x/libsnappyjava.so;osname=linux;processor=s390x,org/xerial/snappy/native/AIX/ppc/libsnappyjava.a;osname=aix;processor=ppc,org/xerial/snappy/native/AIX/ppc64/libsnappyjava.a;osname=aix;processor=ppc64,org/xerial/snappy/native/SunOS/x86/libsnappyjava.so;osname=sunos;processor=x86,org/xerial/snappy/native/SunOS/x86_64/libsnappyjava.so;osname=sunos;processor=x86-64,org/xerial/snappy/native/SunOS/sparc/libsnappyjava.so;osname=sunos;processor=sparc

Bundle-SymbolicName: org.xerial.snappy.snappy-java

Bundle-Vendor: xerial.org

Bundle-Version: 1.1.10.4
Created-By: 11.0.20 (Azul Systems, Inc.)
Export-Package: org.xerial.snappy;uses:="org.osgi.framework,org.xerial.snappy.buffer,org.xerial.snappy.pool";version="1.1.10",org.xerial.snappy.buffer;version="1.1.10",org.xerial.snappy.pool;version="1.1.10"
Implementation-Title: snappy-java
Implementation-URL: <https://github.com/xerial/snappy-java>
Implementation-Vendor: xerial.org
Implementation-Vendor-Id: org.xerial.snappy
Implementation-Version: 1.1.10.4
Import-Package: org.osgi.framework;version="[1.5,2)"
Private-Package:
org.xerial.snappy.native.AIX.ppc,org.xerial.snappy.native.AIX.ppc64,org.xerial.snappy.native.FreeBSD.x86_64,org.xerial.snappy.native.Linux.aarch64,org.xerial.snappy.native.Linux.android-aarch64,org.xerial.snappy.native.Linux.android-arm,org.xerial.snappy.native.Linux.arm,org.xerial.snappy.native.Linux.armv6,org.xerial.snappy.native.Linux.armv7,org.xerial.snappy.native.Linux.ppc,org.xerial.snappy.native.Linux.ppc64,org.xerial.snappy.native.Linux.ppc64le,org.xerial.snappy.native.Linux.riscv64,org.xerial.snappy.native.Linux.s390x,org.xerial.snappy.native.Linux.x86,org.xerial.snappy.native.Linux.x86_64,org.xerial.snappy.native.Mac.aarch64,org.xerial.snappy.native.Mac.x86,org.xerial.snappy.native.Mac.x86_64,org.xerial.snappy.native,org.xerial.snappy.native.SunOS.sparc,org.xerial.snappy.native.SunOS.x86,org.xerial.snappy.native.SunOS.x86_64,org.xerial.snappy.native.Windows.x86,org.xerial.snappy.native.Windows.x86_64
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Specification-Title:
snappy-java
Specification-Vendor: xerial.org
Specification-Version: 1.1.10.4
Tool: Bnd-5.1.2.202007211702

Found in path(s):

* /snappy-java-1-1-10-4-1-jar/META-INF/MANIFEST.MF

1.203 lz4-java 1.8.0

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Found in path(s):

* /istack-commons-runtime-3-0-7-4-jar/META-INF/maven/com.sun.istack/istack-commons-runtime/pom.xml

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Manifest-Version: 1.0

Created-By: Apache Maven Bundle Plugin

Built-By: build

Build-Jdk: 9.0.4

Implementation-Build-Id: 3.0.7-c8b5e20894f565780625d6f9b018ef7c458cd68

8, 2018-08-29T05:23:37-0700

Bnd-LastModified: 1535545434210

Bundle-Description: istack common utility code

Bundle-DocURL: <http://www.oracle.com/>

Bundle-License: https://glassfish.java.net/public/CDDL+GPL_1_1.html, https://glassfish.java.net/public/CDDL+GPL_1_1.html

Bundle-ManifestVersion: 2

Bundle-Name: istack common utility code runtime

Bundle-SymbolicName: com.sun.istack.commons-runtime

Bundle-Vendor: Oracle Corporation

Bundle-Version: 3.0.7

Export-Package: com.sun.istack;version="3.0.7";uses="javax.activation, javax.xml.stream, org.xml.sax, org.xml.sax.helpers", com.sun.istack.localization;version="3.0.7", com.sun.istack.logging;version="3.0.7"

Implementation-Title: istack common utility code runtime

Implementation-Vendor: Oracle Corporation

Implementation-Vendor-Id:

com.sun.istack

Implementation-Version: 3.0.7

Import-Package: javax.activation, javax.xml.namespace, javax.xml.stream, org.xml.sax, org.xml.sax.helpers

Originally-Created-By: Apache Maven Bundle Plugin

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"

Tool: Bnd-3.2.0.201605172007

Found in path(s):

1.205 jaxb-core 2.3.1

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1.206 activation-api 1.2.2

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```

```

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* @(#) $Id: ElementDecl.java,v 1.3 2001/11/01 00:11:45 kkawa Exp $
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1.210 jsr305 3.0.2

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* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/Immutable.java
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/GuardedBy.java
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/NotThreadSafe.java
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/ThreadSafe.java

1.211 jansi - java library for generating and interpreting ansi escape sequences. 1.5.0

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1.212 kafka-clients 3.6.0

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1.213 tomcat-annotations-api 10.1.15

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1.215 groovy-test-junit5 3.0.19

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```
* /groovy-test-junit5-3-0-19-sources-jar/groovy/junit5/plugin/GroovyJUnitRunnerHelper.groovy
*
/groovy-test-junit5-3-0-19-sources-jar/groovy/junit5/plugin/JUnit5Runner.java
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1.216 groovy-console 3.0.19

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- *

- /groovy-console-3-0-19-sources-jar/groovy/ui/package.html

- * /groovy-console-3-0-19-sources-jar/groovy/inspect/swingui/package.html

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- * /groovy-console-3-0-19-sources-jar/groovy/ui/Console.properties

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* /groovy-console-3-0-19-sources-jar/groovy/console/ui/view/BasicStatusBar.groovy

* /groovy-console-3-0-19-sources-jar/groovy/ui/ConsoleIvyPlugin.groovy

*

/groovy-console-3-0-19-sources-jar/groovy/ui/view/BasicStatusBar.groovy

* /groovy-console-3-0-19-sources-jar/groovy/ui/view/WindowsDefaults.groovy

* /groovy-console-3-0-19-sources-jar/groovy/console/ui/AstBrowser.groovy

* /groovy-console-3-0-19-sources-jar/groovy/ui/ConsoleApplet.groovy

* /groovy-console-3-0-19-sources-jar/groovy/console/ui/ButtonOrTextEditor.groovy

* /groovy-console-3-0-19-sources-jar/groovy/console/ui/Console.groovy

* /groovy-console-3-0-19-sources-jar/groovy/console/ui/text/StructuredSyntaxHandler.java

* /groovy-console-3-0-19-sources-jar/groovy/console/ui/text/FindReplaceUtility.java

* /groovy-console-3-0-19-sources-jar/groovy/ui/text/StructuredSyntaxDocumentFilter.java

* /groovy-console-3-0-19-sources-jar/groovy/inspect/swingui/AstBrowserProperties.groovy

* /groovy-console-3-0-19-sources-jar/groovy/console/ui/ConsoleView.groovy

* /groovy-console-3-0-19-sources-jar/groovy/console/ui/ConsoleActions.groovy

*

/groovy-console-3-0-19-sources-jar/groovy/console/ui/text/StructuredSyntaxResources.java

* /groovy-console-3-0-19-sources-jar/groovy/console/ui/text/StructuredSyntaxDocumentFilter.java

* /groovy-console-3-0-19-sources-jar/groovy/console/ui/text/GroovyFilter.java

* /groovy-console-3-0-19-sources-jar/groovy/ui/text/SmartDocumentFilter.java

* /groovy-console-3-0-19-sources-jar/groovy/ui/view/BasicToolBar.groovy

* /groovy-console-3-0-19-sources-jar/groovy/ui/text/TextUndoManager.java

* /groovy-console-3-0-19-sources-jar/groovy/ui/text/TextEditor.java

* /groovy-console-3-0-19-sources-jar/groovy/console/ui/ButtonOrDefaultRenderer.groovy

- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/view/BasicContentPane.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/ui/text/GroovyFilter.java
- * /groovy-console-3-0-19-sources-jar/groovy/inspect/swingui/ScriptToTreeNodeAdapter.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/AstNodeToScriptAdapter.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/console/TextTreeNodeMaker.groovy
- *
- /groovy-console-3-0-19-sources-jar/groovy/console/ui/AstBrowserProperties.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/HistoryRecord.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/ObjectBrowser.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/text/SmartDocumentFilter.java
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/view/BasicMenuBar.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/view/WindowsDefaults.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/ui/HistoryRecord.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/ui/text/StructuredSyntaxHandler.java
- * /groovy-console-3-0-19-sources-jar/groovy/ui/text/MatchingHighlighter.java
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/ConsoleSupport.java
- * /groovy-console-3-0-19-sources-jar/groovy/ui/ConsoleActions.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/ui/ConsolePreferences.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/ui/view/Defaults.groovy
- *
- /groovy-console-3-0-19-sources-jar/groovy/inspect/TextNode.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/ScriptToTreeNodeAdapter.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/text/AutoIndentAction.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/view/MacOSXMenuBar.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/view/Defaults.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/view/BasicToolBar.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/ui/view/BasicContentPane.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/text/MatchingHighlighter.java
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/view/GTKDefaults.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/ui/text/FindReplaceUtility.java
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/ConsolePreferences.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/ConsoleTextEditor.java
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/OutputTransforms.groovy
- *
- /groovy-console-3-0-19-sources-jar/groovy/console/ui/view/MacOSXDefaults.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/SystemOutputInterceptor.java
- * /groovy-console-3-0-19-sources-jar/groovy/ui/view/BasicMenuBar.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/console/ui/text/TextEditor.java
- * /groovy-console-3-0-19-sources-jar/groovy/console/TextNode.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/ui/ConsoleView.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/ui/SystemOutputInterceptor.java
- * /groovy-console-3-0-19-sources-jar/groovy/inspect/swingui/ButtonOrTextEditor.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/ui/ConsoleTextEditor.java
- * /groovy-console-3-0-19-sources-jar/groovy/ui/OutputTransforms.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/inspect/swingui/ButtonOrDefaultRenderer.groovy
- * /groovy-console-3-0-19-sources-jar/groovy/inspect/swingui/AstNodeToScriptAdapter.groovy
- *


```

/groovy-console-3-0-19-sources-jar/groovy/ui/text/AutoIndentAction.groovy
* /groovy-console-3-0-19-sources-jar/groovy/ui/text/StructuredSyntaxResources.java
* /groovy-console-3-0-19-sources-jar/groovy/ui/view/MacOSXDefaults.groovy
* /groovy-console-3-0-19-sources-jar/groovy/ui/Console.groovy
* /groovy-console-3-0-19-sources-jar/groovy/ui/view/MacOSXMenuBar.groovy
* /groovy-console-3-0-19-sources-jar/groovy/inspect/swingui/ObjectBrowser.groovy
* /groovy-console-3-0-19-sources-jar/groovy/ui/ConsoleSupport.java
* /groovy-console-3-0-19-sources-jar/groovy/console/ui/ConsoleIvyPlugin.groovy
* /groovy-console-3-0-19-sources-jar/groovy/inspect/swingui/AstBrowser.groovy
* /groovy-console-3-0-19-sources-jar/groovy/console/ui/text/TextUndoManager.java
* /groovy-console-3-0-19-sources-jar/groovy/inspect/TextTreeNodeMaker.groovy
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1.217 groovy-cli-picocli 3.0.19

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1.218 groovy-servlet 3.0.19

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```

Found in path(s):

```

* /groovy-servlet-3-0-19-sources-jar/groovy/servlet/ServletBinding.java
* /groovy-servlet-3-0-19-sources-jar/groovy/servlet/AbstractHttpServlet.java
*
* /groovy-servlet-3-0-19-sources-jar/groovy/servlet/ServletCategory.java
* /groovy-servlet-3-0-19-sources-jar/groovy/servlet/GroovyServlet.java

```

* /groovy-servlet-3-0-19-sources-jar/groovy/servlet/TemplateServlet.java

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-->

Found in path(s):

* /groovy-servlet-3-0-19-sources-jar/groovy/servlet/package.html

1.219 groovy-templates 3.0.19

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-->

Found in path(s):

* /groovy-templates-3-0-19-sources-jar/groovy/text/markup/package.html

* /groovy-templates-3-0-19-sources-jar/groovy/text/package.html

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*/

Found in path(s):

* /groovy-templates-3-0-19-sources-jar/groovy/text/markup/MarkupTemplateEngine.java

* /groovy-templates-3-0-19-sources-jar/groovy/text/GStringTemplateEngine.java

*

/groovy-templates-3-0-19-sources-jar/groovy/text/markup/MarkupBuilderCodeTransformer.java

* /groovy-templates-3-0-19-sources-jar/groovy/text/markup/DelegatingIndentWriter.java

* /groovy-templates-3-0-19-sources-jar/groovy/text/markup/TemplateResolver.java

* /groovy-templates-3-0-19-sources-jar/groovy/text/markup/AutoNewLineTransformer.java

* /groovy-templates-3-0-19-sources-jar/groovy/text/markup/TemplateASTTransformer.java

* /groovy-templates-3-0-19-sources-jar/groovy/text/markup/BaseTemplate.java

* /groovy-templates-3-0-19-sources-jar/groovy/text/XmlTemplateEngine.java

* /groovy-templates-3-0-19-sources-jar/groovy/text/markup/TemplateConfiguration.java

* /groovy-templates-3-0-19-sources-jar/groovy/text/TemplateParseException.java

* /groovy-templates-3-0-19-sources-jar/groovy/text/TemplateEngine.java

* /groovy-templates-3-0-19-sources-jar/groovy/text/SimpleTemplateEngine.java

* /groovy-templates-3-0-19-sources-jar/groovy/text/markup/MarkupTemplateTypeCheckingExtension.groovy

*

```
/groovy-templates-3-0-19-sources-jar/groovy/text/TemplateExecutionException.java
* /groovy-templates-3-0-19-sources-jar/groovy/text/markup/IncludeType.java
* /groovy-templates-3-0-19-sources-jar/groovy/text/markup/TagLibAdapter.groovy
* /groovy-templates-3-0-19-sources-jar/groovy/text/Template.java
* /groovy-templates-3-0-19-sources-jar/groovy/text/StreamingTemplateEngine.java
```

1.220 groovy-astbuilder 3.0.19

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```

```
#global transformation for AST Builder
org.apache.groovy.ast.builder.AstBuilderTransformation
```

Found in path(s):

```
* /groovy-astbuilder-3-0-19-sources-jar/META-INF/services/org.codehaus.groovy.transform.ASTTransformation
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- */

Found in path(s):

- * /groovy-astbuilder-3-0-19-sources-jar/org/apache/groovy/ast/builder/AstBuilderTransformation.java

1.221 groovy-jmx 3.0.19

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 */
```

Found in path(s):

- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxBuilderException.java
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxTimerFactory.groovy
- \*
- /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxClientConnectorFactory.groovy
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxMetaMapBuilder.groovy
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxBuilderModelMBean.java
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxBeansFactory.groovy
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxOperationInfoManager.groovy
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxBeanExportFactory.groovy
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/GroovyMBean.java
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxServerConnectorFactory.groovy
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxEventEmitterMBean.java
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxEventEmitter.java
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxAttributeInfoManager.groovy

- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/package-info.groovy
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxBeanInfoManager.groovy
- \*
- /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxEventListener.java
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxEmitterFactory.groovy
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxListenerFactory.groovy
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxBeanFactory.groovy
- \* /groovy-jmx-3-0-19-sources-jar/groovy/util/GroovyMBean.java
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxBuilder.groovy
- \* /groovy-jmx-3-0-19-sources-jar/groovy/jmx/builder/JmxBuilderTools.groovy

## 1.222 byte-buddy 1.12.9

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## 1.224 commons-daemon 1.3.4

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```

Found in path(s):

```
* /opentest4j-1-2-0-sources-5-jar/org/opentest4j/ValueWrapper.java
* /opentest4j-1-2-0-sources-5-jar/org/opentest4j/IncompleteExecutionException.java
* /opentest4j-1-2-0-sources-5-jar/org/opentest4j/TestAbortedException.java
* /opentest4j-1-2-0-sources-5-jar/org/opentest4j/MultipleFailuresError.java
*
* /opentest4j-1-2-0-sources-5-jar/org/opentest4j/AssertionFailedError.java
* /opentest4j-1-2-0-sources-5-jar/org/opentest4j/TestSkippedException.java
```

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\* /failureaccess-1-0-1-sources-13-jar/com/google/common/util/concurrent/internal/InternalFutures.java

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Found in path(s):

- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/MessagePolicy.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/callback/GroupPrincipalCallback.java
- \*
- /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/config/ClientAuthConfig.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/callback/SecretKeyCallback.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/AuthException.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/config/RegistrationListener.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/ServerAuth.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/callback/PasswordValidationCallback.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/callback/PrivateKeyCallback.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/callback/CertStoreCallback.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/config/ServerAuthConfig.java
- \*
- /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/AuthStatus.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/config/ClientAuthContext.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/callback/TrustStoreCallback.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/module/ServerAuthModule.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/config/AuthConfig.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/config/AuthConfigProvider.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/config/AuthConfigFactory.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/config/ServerAuthContext.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/module/ClientAuthModule.java
- \* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/callback/CallerPrincipalCallback.java
- \*

/tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/ClientAuth.java  
\* /tomcat-jaspic-api-10-1-15-sources-jar/jakarta/security/auth/message/MessageInfo.java

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## 1.239 spring-security-crypto 5.8.6

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## 1.240 tomcat-jasper-el 10.1.15

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## 1.244 tomcat-websocket-api 10.1.15

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## 1.248 tomcat-websocket-client-api 10.1.15

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## 1.252 tomcat-jsp-api 10.1.15

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\* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/LocalStrings\_ko.properties  
\* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/LocalStrings\_de.properties  
\* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/LocalStrings\_fr.properties  
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- \*
- /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/JspWriter.java
- \* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/tagext/TagSupport.java
- \* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/PageContext.java
- \* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/el/FunctionMapper.java
- \* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/el/ImportELResolver.java
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- \* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/tagext/IterationTag.java
- \* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/el/ScopedAttributeELResolver.java
- \* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/tagext/JspTag.java
- \* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/SkipPageException.java
- \* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/tagext/TagLibraryValidator.java
- \* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/tagext/BodyTag.java
- \* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/tagext/TagInfo.java
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- /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/JspPage.java
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- \* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/el/VariableResolver.java
- \* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/tagext/PageData.java

- \* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/el/ExpressionEvaluator.java
- \* /tomcat-jsp-api-10-1-15-sources-jar/jakarta/servlet/jsp/tagext/SimpleTagSupport.java
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- \*
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