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1.5 backbone-events-standalone 0.2.7

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1.6 json-source-map 0.4.0

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1.7 rxjs 7.8.0

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1.8 redis 6.0.16

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1.9 fast-json-patch 2.0.7

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1.10 codemirror 5.62.0

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1.11 jsonlint 1.6.3

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JSON Lint
=========

A pure [JavaScript version](http://zaach.github.com/jsonlint/) of the service provided at
jsonlint.com.

Command line interface
Install jsonlint with npm to use the command line interface:

```
npm install jsonlint -g
```

Validate a file like so:

```
jsonlint myfile.json
```

or pipe input into stdin:

```
cat myfile.json | jsonlint
```

jsonlint will either report a syntax error with details or pretty print the source if it is valid.

Options

```
$ jsonlint -h

Usage: jsonlint [file] [options]

file     file to parse; otherwise uses stdin

Options:
  -v, --version            print version and exit
  -s, --sort-keys          sort object keys
  -i, --in-place           overwrite the file
  -t CHAR, --indent CHAR   character(s) to use for indentation  [  ]
  -c, --compact            compact error display
  -V, --validate           a JSON
schema to use for validation
  -e, --environment        which specification of JSON Schema the validation file uses  [json-schema-draft-03]
  -q, --quiet              do not print the parsed json to STDOUT  [false]
  -p, --pretty-print       force pretty printing even if invalid
```

Module interface

I'm not sure why you wouldn't use the built in `JSON.parse` but you can use jsonlint from a CommonJS module:

```
var jsonlint = require("jsonlint");

jsonlint.parse('{"creative?": false}');
```

It returns the parsed object or throws an `Error`.

Vim Plugins

* [Syntastic](http://www.vim.org/scripts/script.php?script_id=2736)
* [sourcebeautify](http://www.vim.org/scripts/script.php?script_id=4079)

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1.12 d3 5.8.0

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1.13 bootstrap 4.3.1

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1.14 ubuntu-standard 1.481

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1.18 echarts 5.6.0

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1.23 proto-google-cloud-storage-v2 2.38.0-alpha

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```

Found in path(s):

* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/CryptoKeyName.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/NotificationConfigName.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/BucketName.java
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Found in path(s):
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ServiceAccount.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/GetNotificationConfigRequest.java
*
 /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/GetObjectRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/GetHmacKeyRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/WriteObjectRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/GetNotificationConfigRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ListObjectsResponseOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/QueryWriteStatusResponse.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/QueryWriteStatusRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/CustomerEncryption.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/CancelResumableWriteResponse.java
*
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/WriteObjectResponseOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/WriteObjectSpec.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ListNotificationConfigsRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ListNotificationConfigsResponseOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ListBucketsRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/CreateHmacKeyResponseOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ProjectTeam.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/StorageProto.java
*
 /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/CreateBucketRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ContentRange.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/RestoreObjectRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-

jar/com/google/storage/v2/StartResumableWriteResponseOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/LockBucketRetentionPolicyRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/DeleteNotificationConfigRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/DeleteNotificationConfigRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/HmacKeyMetadataOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ObjectChecksums.java
*
/proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/CommonObjectRequestParams.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/CreateNotificationConfigRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/CancelResumableWriteRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ReadObjectRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/ObjectChecksumsOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/Owner.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/UpdateHmacKeyRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/WriteObjectSpecOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ObjectAccessControl.java
*
/proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ChecksummedData.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/GetHmacKeyRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/OwnerOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/RestoreObjectRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/ServiceConstantsOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/GetObjectRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/BidiWriteObjectResponse.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/GetServiceAccountRequest.java
*
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/QueryWriteStatusRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/BidiWriteObjectRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ContentRangeOrBuilder.java
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/ListObjectsRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/QueryWriteStatusResponseOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/RewriteResponse.java
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/CreateHmacKeyResponse.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ListHmacKeysRequest.java
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jar/com/google/storage/v2/CreateHmacKeyRequestOrBuilder.java

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/proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/CreateHmacKeyRequest.java
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/GetBucketRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/StartResumableWriteRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/BucketAccessControl.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/WriteObjectResponse.java
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ListHmacKeysResponse.java
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ListObjectsRequest.java
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jar/com/google/storage/v2/StartResumableWriteRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ObjectOrBuilder.java
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ListObjectsResponse.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ServiceConstants.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/RewriteObjectRequestOrBuilder.java
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jar/com/google/storage/v2/LockBucketRetentionPolicyRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/DeleteHmacKeyRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/ChecksummedDataOrBuilder.java

1.24 mapstruct-jdk8 1.2.0.Final

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/mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/factory/Mappers.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/Mapping.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/ValueMappings.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/MappingTarget.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/IterableMapping.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/InheritConfiguration.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/MappingInheritanceStrategy.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/InheritInverseConfiguration.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/Qualifier.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/NullValueCheckStrategy.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/NullValueMappingStrategy.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/Mapper.java
*

/mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/AfterMapping.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/TargetType.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/factory/package-info.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/Mappings.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/ValueMapping.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/ObjectFactory.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/Named.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/ReportingPolicy.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/util/Experimental.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/MappingConstants.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/package-info.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/MapperConfig.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/BeanMapping.java
*
/mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/MapMapping.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/DecoratedWith.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/BeforeMapping.java
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1.25 hibernate-validator 8.0.3.Final

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1.26 paranamer 2.8

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* /paranamer-2-8-sources-5-jar/com/thoughtworks/paranamer/ParameterNamesNotFoundException.java
* /paranamer-2-8-sources-5-jar/com/thoughtworks/paranamer/AdaptiveParanamer.java
* /paranamer-2-8-sources-5-jar/com/thoughtworks/paranamer/CachingParanamer.java
*

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1.27 bcpkix-fips 2.0.8

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```
/**
   * Base constructor.
   * <p>
   * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
   * </p>
```

```
* <p>
* Known suffixes is a list of public domain suffixes that can't be used as wild cards for
* example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
* If *.com is in the known suffixes list will not be allowed to match.
* </p>
*
* @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
*/
```

Found in path(s):
* /bcpkix-fips-2-0-8-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.28 grpc-context 1.60.1

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1.29 miglayout 3.5.5

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1.30 commons-digester 2.1

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* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/mtls/ContextAwareMetadataJson.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/mtls/MtlsUtils.java
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/google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/mtls/package-info.java
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* /google-api-client-2-4-0-sources-
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* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/testing/package-info.java
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jar/com/google/api/client/googleapis/testing/auth/oauth2/MockTokenServerTransport.java
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jar/com/google/api/client/googleapis/media/MediaHttpUploaderProgressListener.java
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* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/Parser.java
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1.44 commons-lang3 3.17.0

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1.45 client-spi 2.27.21

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1.46 jakarta-validation-api 3.0.2

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 ~
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 -->
<![CDATA[
Comments to: bean-validation-dev@eclipse.org.
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Found in path(s):
* /jakarta-validation-api-3-0-2-sources-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml
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/*
* Jakarta Bean Validation API
*
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*/

Found in path(s):
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ValidateUnwrappedValue.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ValidateOnExecution.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/AssertTrue.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintDefinitionException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Positive.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Digits.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Min.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/package-info.java
*
 /jakarta-validation-api-3-0-2-sources-jar/module-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidatorContext.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/CascadableDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ExecutableDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Configuration.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/MethodDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/groups/Default.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/GroupDefinitionException.java

* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/FutureOrPresent.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NotBlank.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/DecimalMin.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ConstraintDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Payload.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/BootstrapState.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ParameterNameProvider.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/Scope.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidationProviderResolver.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NegativeOrZero.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NotEmpty.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/ExtractedValue.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraintvalidation/ValidationTarget.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/UnexpectedTypeException.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/CrossParameterDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/PropertyDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/BootstrapConfiguration.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/GroupConversionDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ReturnValueDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/bootstrap/GenericBootstrap.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/AssertFalse.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/Unwrapping.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ReportAsSingleViolation.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintViolationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ParameterDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Constraint.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/TraversableResolver.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/NoProviderFoundException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidatorFactory.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Null.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Path.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Validation.java
* /jakarta-validation-api-3-0-2-sources-
jar/jakarta/validation/valueextraction/ValueExtractorDefinitionException.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidatorFactory.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Max.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/PastOrPresent.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Negative.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Validator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ContainerElementTypeDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ConstructorDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintDeclarationException.java

* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Email.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Pattern.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ElementKind.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ExecutableValidator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NotNull.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ElementDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Past.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ClockProvider.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Size.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/PositiveOrZero.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/bootstrap/ProviderSpecificBootstrap.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Future.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintTarget.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/DecimalMax.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/GroupSequence.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/ConfigurationState.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/BeanDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/groups/ConvertGroup.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraintvalidation/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/ValidationProvider.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/MessageInterpolator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/bootstrap/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/ValueExtractor.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/groups/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidatorContext.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintViolation.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraintvalidation/SupportedValidationTarget.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/UnwrapByDefault.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Valid.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/OverridesAttribute.java
* /jakarta-validation-api-3-0-2-sources-
jar/jakarta/validation/valueextraction/ValueExtractorDeclarationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ExecutableType.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/MethodType.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ContainerDescriptor.java

1.47 big-math 2.0.0

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1.48 thrift 0.13.0

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1.49 jcl-over-slf4j 2.0.17

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1.50 javassist 3.24.1-GA

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*/

Found in path(s):
* /javassist-3-24-1-ga-sources-3-jar/javassist/CannotCompileException.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/ClassFilePrinter.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/ClassFile.java
*
 /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/analysis/Analyzer.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/scopedpool/SoftValueHashMap.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/CastExpr.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/ClassPool.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/CompileError.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/expr/Handler.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/convert/TransformCall.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/stackmap/Tracer.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/JvstTypeChecker.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/analysis/ControlFlow.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/TokenId.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/MethodInfo.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/LocalVariableTypeAttribute.java
*
 /javassist-3-24-1-ga-sources-3-jar/javassist/util/proxy/SerializedProxy.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/convert/TransformBefore.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/Loader.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/SyntaxError.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/stackmap/TypeData.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/LocalVariableAttribute.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/analysis/Util.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/convert/TransformAfter.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/DoubleConst.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/ByteArrayClassPath.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/ByteStream.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/Member.java
*
 /javassist-3-24-1-ga-sources-3-jar/javassist/tools/reflect/Metaobject.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/Mnemonic.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/CodeAnalyzer.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/util/proxy/RuntimeSupport.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/expr/MethodCall.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/tools/Dump.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/FieldDecl.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/analysis/Subroutine.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/tools/web/Viewer.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/CtClass.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/ByteArray.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/util/proxy/DefineClassHelper.java

* /javassist-3-24-1-ga-sources-3-jar/javassist/util/proxy/ProxyObjectOutputStream.java
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 /javassist-3-24-1-ga-sources-3-jar/javassist/CtPrimitiveType.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/CtMethod.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/InnerClassesAttribute.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/util/proxy/ProxyObject.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/FieldInfo.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/CtField.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/Declarator.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/StringL.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/expr/NewArray.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/Stmnt.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/convert/TransformAccessArrayField.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/SignatureAttribute.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/DuplicateMemberException.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/tools/rmi/RemoteException.java
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 /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/Variable.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/runtime/Cflow.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/scopedpool/ScopedClassPool.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/DeprecatedAttribute.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/util/proxy/SecurityActions.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/Expr.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/LoaderClassPath.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/stackmap/MapMaker.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/MemberResolver.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/ExceptionsAttribute.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/Translator.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/CodeIterator.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/util/proxy/ProxyFactory.java
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 /javassist-3-24-1-ga-sources-3-jar/javassist/CodeConverter.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/CtNewConstructor.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/convert/TransformNewClass.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/Keyword.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/SyntheticAttribute.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/URLClassPath.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/TypeChecker.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/NewExpr.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/InstanceOfExpr.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/util/HotSwapAgent.java
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 /javassist-3-24-1-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolFactory.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/util/proxy/DefinePackageHelper.java

* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/analysis/IntQueue.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/tools/reflect/Reflection.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/MethodDecl.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/StackMap.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/analysis/FramePrinter.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/tools/reflect/CannotReflectException.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/convert/TransformNew.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/LineNumberAttribute.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/Visitor.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/stackmap/BasicBlock.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/convert/TransformWriteField.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/CtNewWrappedConstructor.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/CallExpr.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/analysis/Type.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/tools/rmi/RemoteRef.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/IntConst.java

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* /javassist-3-24-1-ga-sources-3-jar/javassist/tools/web/BadHttpRequest.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/AttributeInfo.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/SymbolTable.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/tools/reflect/Compiler.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/Pair.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/CtNewWrappedMethod.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationImpl.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/runtime/Inner.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/tools/reflect/CannotInvokeException.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/KeywordTable.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/ASTree.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/tools/reflect/CannotCreateException.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/util/proxy/MethodFilter.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/ConstantAttribute.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/tools/Callback.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/util/HotSwapper.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/Descriptor.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/StackMapTable.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/Opcode.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/analysis/MultiArrayType.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/BinExpr.java

* /javassist-3-24-1-ga-sources-3-jar/javassist/tools/rmi/Proxy.java
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 /javassist-3-24-1-ga-sources-3-jar/javassist/CtClassType.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/CodeGen.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/tools/reflect/ClassMetaobject.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/Javac.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/runtime/DotClass.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/expr/NewExpr.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/AccessFlag.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/tools/reflect/Sample.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/NotFoundException.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/convert/TransformFieldAccess.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/expr/Cast.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/Parser.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/CondExpr.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/tools/framedump.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/CtNewMethod.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/ClassFileWriter.java
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/*
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* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/LongMemberValue.java

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/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/MemberValue.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/Annotation.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/StringMemberValue.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/CharMemberValue.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/ClassMemberValue.java
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* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/IntegerMemberValue.java

1.51 protobuf-java-util 3.25.3

1.51.1 Available under license :

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Manifest-Version: 1.0
Bnd-LastModified: 1708024056239
Bundle-Description: Utilities for Protocol Buffers
Bundle-DocURL: https://developers.google.com/protocol-buffers/
Bundle-License: https://opensource.org/licenses/BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Util]
Bundle-SymbolicName: com.google.protobuf.util
Bundle-Version: 3.25.3
Export-Package: com.google.protobuf.util;version="3.25.3";uses:="com.goo
gle.protobuf,javax.annotation"
Import-Package: com.google.common.base;version="[32.0,33)",com.google.co
mmon.io;version="[32.0,33)",com.google.common.math;version="[32.0,33)",
com.google.common.primitives;version="[32.0,33)",com.google.gson;versio
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f,javax.annotation;version="[3.0,4)",sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.4.0.202211291949
Created-By:
mergejars

Found in path(s):
* /protobuf-java-util-3-25-3-jar/META-INF/MANIFEST.MF

1.52 opencensus-contrib-http-util 0.31.1

1.52.1 Available under license :

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1.53 jsoup 1.14.2

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1.54 jakarta-inject-api 2.0.1

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Source Code

The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api
https://github.com/eclipse-ee4j/injection-spec
https://github.com/eclipse-ee4j/injection-tck

Third-party Content

This project
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None

Cryptography

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1.55 jsr305 3.0.2

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* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/GuardedBy.java
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/NotThreadSafe.java
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1.56 servlet-api 4.0.0

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* /servlet-api-4-0-0-sources-8-jar/org/xipki/http/servlet/ServletURIPool.java

* /servlet-api-4-0-0-sources-8-jar/org/xipki/http/servlet/SimpleLruCache.java
* /servlet-api-4-0-0-sources-8-jar/org/xipki/http/servlet/HttpServlet.java
*
/servlet-api-4-0-0-sources-8-jar/org/xipki/http/servlet/AbstractHttpServlet.java
* /servlet-api-4-0-0-sources-8-jar/org/xipki/http/servlet/package-info.java
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1.57 checker-qual 3.4.1

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1.58 httpcomponents-core 5.3.6

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1.59 jinjava 2.7.0

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* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/filter/LowerFilter.java
*
 /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/loader/ResourceLocator.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/tree/parse/Token.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/util/Logging.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/util/ForLoop.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/filter/DivisibleFilter.java

* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/filter/DefaultFilter.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/filter/AdvancedFilter.java
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* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/SimpleLibrary.java
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* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/tag/ForTag.java
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* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/Jinjava.java

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* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/tree/TextNode.java
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1.60 grpc-services 1.62.2

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1.61 jacoco-cli 0.8.11

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1.62 commons-csv 1.14.0

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1.63 zjsonpatch 0.4.16

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* Project:

http://necolas.github.io/normalize.css/
* Source: http://necolas.github.io/normalize.css/

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* Project: https://wiki.openjdk.java.net/display/CodeTools/sigtest
* Source: http://hg.openjdk.java.net/code-tools/sigtest/file/c57f97e2ac2f

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1.67 istack-commons 4.1.2

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* Project home: https://projects.eclipse.org/projects/ee4j.jaxb-impl

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Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-ri
* https://github.com/eclipse-ee4j/jaxb-istack-commons
* https://github.com/eclipse-ee4j/jaxb-dtd-parser
* https://github.com/eclipse-ee4j/jaxb-fi
* https://github.com/eclipse-ee4j/jaxb-stax-ex
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args4j (2.33)

* License: MIT License

dom4j (1.6.1)

* License: Custom license based on Apache 1.1

file-management (3.0.0)

* License: Apache-2.0
* Project: https://maven.apache.org/shared/file-management/
*

Source:
https://svn.apache.org/viewvc/maven/shared/tags/file-management-3.0.0/

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* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-compat/
* Source:
https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2

maven-core (3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-core/index.html
* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2

maven-plugin-annotations (3.5)

* License: Apache-2.0
* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
* Source:
https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

maven-plugin-api (3.5.2)

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maven-resolver-api (1.1.1)

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maven-resolver-spi (1.1.1)

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maven-resolver-transport-file (1.1.1)

* License: Apache-2.0
* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source:
  https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

maven-resolver-util (1.1.1)

* License: Apache-2.0

maven-settings (3.5.2)

* License: Apache-2.0
* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2

OSGi Service Platform Core Companion Code (6.0)

* License: Apache License, 2.0

plexus-archiver (3.5)

* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

plexus-io (3.0.0)

* License: Apache-2.0

plexus-utils (3.1.0)

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relaxng-datatype
(1.0)

* License: New BSD license

Sax (0.2)

* License: SAX-PD
* Project: http://www.megginson.com/downloads/SAX/
* Source: http://sourceforge.net/project/showfiles.php?group_id=29449

testng (6.14.2)

* License: Apache-2.0 AND (MIT OR GPL-1.0+)
* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

wagon-http-lightweight (3.0.0)

* License: Pending
* Project: https://maven.apache.org/wagon/
* Source:
  https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0

xz for java (1.8)

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1.68 re2j 1.7

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Found in path(s):
* /re2j-1-7-sources-jar/com/google/re2j/UnicodeTables.java
* /re2j-1-7-sources-jar/com/google/re2j/Prog.java
* /re2j-1-7-sources-jar/com/google/re2j/Characters.java
* /re2j-1-7-sources-jar/com/google/re2j/RE2.java
* /re2j-1-7-sources-jar/com/google/re2j/MachineInput.java
* /re2j-1-7-sources-jar/com/google/re2j/Unicode.java
* /re2j-1-7-sources-jar/com/google/re2j/CharGroup.java
* /re2j-1-7-sources-jar/com/google/re2j/Parser.java
* /re2j-1-7-sources-jar/com/google/re2j/super/com/google/re2j/Characters.java
* /re2j-1-7-sources-jar/com/google/re2j/Simplify.java
* /re2j-1-7-sources-jar/com/google/re2j/Utils.java
* /re2j-1-7-sources-jar/com/google/re2j/CharClass.java
* /re2j-1-7-sources-jar/com/google/re2j/Regexp.java
* /re2j-1-7-sources-jar/com/google/re2j/Machine.java
*
/re2j-1-7-sources-jar/com/google/re2j/Pattern.java
* /re2j-1-7-sources-jar/com/google/re2j/Compiler.java
* /re2j-1-7-sources-jar/com/google/re2j/Matcher.java

* /re2j-1-7-sources-jar/com/google/re2j/PatternSyntaxException.java
* /re2j-1-7-sources-jar/com/google/re2j/Inst.java
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* /re2j-1-7-sources-jar/com/google/re2j/MatcherInput.java

1.69 antlr 4.13.0

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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):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg
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*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

javascriptTypeInitMap ::= [
 "bool":"false",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"{}" // 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)>
import antlr4 from 'antlr4';
<if(file.genListener)>
import <file.grammarName>Listener from './<file.grammarName>Listener.js';
<endif>
<if(file.genVisitor)>
import <file.grammarName>Visitor from './<file.grammarName>Visitor.js';
<endif>

<namedActions.header>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';
```

```
// This class defines a complete listener for a parse tree produced by <file.parserName>.
export default class <file.grammarName>Listener extends antlr4.tree.ParseTreeListener {

<file.listenerNames:{lname |
 // Enter a parse tree produced by <file.parserName>#<lname>.
 enter<lname; format="cap">(ctx) {
 \}

 // Exit a parse tree produced by <file.parserName>#<lname>.
 exit<lname;
 format="cap">(ctx) {
 \}

}; separator="\n">

}
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

export default class <file.grammarName>Visitor extends antlr4.tree.ParseTreeVisitor {

<file.visitorNames:{lname |
 // Visit a parse tree produced by <file.parserName>#<lname>.
 visit<lname; format="cap">(ctx) {
   return this.visitChildren(ctx);
 \}

}; separator="\n">

}
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';
```

```
<endif>

<atn>

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds,
 index) );

const sharedContextCache = new antlr4.atn.PredictionContextCache();

export default class <parser.name> extends <superClass; null="antlr4.Parser"> {

  static grammarFileName = "<parser.grammarFileName>";
  static literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
  static symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
  static ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

  constructor(input) {
      super(input);
      this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
      this.ruleNames = <parser.name>.ruleNames;
      this.literalNames = <parser.name>.literalNames;
      this.symbolicNames = <parser.name>.symbolicNames;
      <namedActions.members>
  }

  <if(sempredFuncs)>
  sempred(localctx, ruleIndex, predIndex) {
   switch(ruleIndex) {
   <parser.sempredFuncs.values:{f
| case <f.ruleIndex>:
    return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
      default:
          throw "No predicate with index:" + ruleIndex;
     }
  }

  <sempredFuncs.values; separator="\n">
  <endif>

 <funcs; separator="\n">

}

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor>
```

```
<endif>

<if(parser.rules)>
<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;}; separator="\n", wrap, anchor>
<endif>

<funcs:{f | <ruleContexts(f)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.funcs:{f | <parser.name>.<f.ctxType> = <f.ctxType>; }; separator="\n">

>>

ruleContexts(currentRule) ::= <<
<currentRule.ruleCtx>

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

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action
 = function(localctx, ruleIndex, actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 this.<f.name>_action(localctx, actionIndex);
 break;}; separator="\n">
 default:
  throw "No registered action for:" + ruleIndex;
 }
};

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
 switch (ruleIndex) {
  <recog.sempredFuncs.values:{f| case <f.ruleIndex>:
 return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
     throw "No registered predicate for:" + ruleIndex;
   }
};

<sempredFuncs.values; separator="\n">
<endif>
>>
```

```
/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;};
 separator="\n">
 default:
  throw "No registered action for:" + actionIndex;
 }
};
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
<if (r.factory.g.lexer)><lexer.name>.prototype.<r.name>_sempred =
function<else><r.name>_sempred<endif>(localctx, predIndex) {
 switch(predIndex) {
  <actions:{index| case <index>:
 return <actions.(index)>;}; separator="\n">
  default:
   throw "No predicate with index:" + predIndex;
 }
};

>>

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


<currentRule.escapedName>(<currentRule.args:{a | <a.escapedName>}; separator=", ">) {
  let localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.escapedName>}>);
  this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
   <namedActions.init>
  <locals; separator="\n">
  try {
      <code>
      <postamble; separator="\n">
```

```
    <namedActions.after>
  }<if(exceptions)>
  <exceptions; separator="\n">
  <else> catch (re) {
   if(re instanceof antlr4.error.RecognitionException) {
       localctx.exception = re;
       this._errHandler.reportError(this, re);
       this._errHandler.recover(this, re);
    } else {
     throw re;
    }
  }<endif> finally {
     <finallyAction>
     this.exitRule();
  }
  return localctx;
}

>>

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

<currentRule.escapedName>(_p<if(currentRule.args)>, <args:{a | , <a>}><endif>) {
 if(_p===undefined) {
    _p = 0;
 }
  const _parentctx = this._ctx;
  const _parentState = this.state;
  let localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{a | , <a.escapedName>}>);
  let _prevctx
 = localctx;
  const _startState = <currentRule.startState>;
  this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);
  <namedActions.init>
  <locals; separator="\n">
  try {
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  } catch( error) {
     if(error instanceof antlr4.error.RecognitionException) {
       localctx.exception = error;
       this._errHandler.reportError(this, error);
       this._errHandler.recover(this, error);
    } else {
     throw error;
```

```
    }
  } finally {
      <finallyAction>
      this.unrollRecursionContexts(_parentctx)
  }
  return localctx;
}

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
this.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) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

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

```
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
if(<expr>)
 {
   <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {
   <alts; separator="\n">
   this.state = <choice.loopBackStateNumber>;
   this._errHandler.sync(this);
   <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">
do {
   <alts; separator="\n">
   this.state = <choice.stateNumber>; <! loopback/exit decision !>
   this._errHandler.sync(this);
   <iteration>
} while(<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
var
 la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt |
```

```
case <i>:
  <alt>
  break;
}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
  <alt>
}; separator="\n} else ">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
  if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
    <iteration>
    <alts> <! should only be one !>
  }
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

>>

PlusBlock(choice,
 alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var _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>
 }
```

```
 this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
 this._errHandler.sync(this);
 _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>

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

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

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

// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>)
 & ~0x1f) === 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & <bits.calculated>) !== 0)
%>

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

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

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

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>===<t.type>}; separator=" || ">
%>

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

InvokeRule(r, argExprsChunks) ::= <<
```

```
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>this.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>);
>>

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>this.match(<parser.name>.<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) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName>\<=0 || <expr>)<else>if(!(<expr>))<endif> {
   <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>this._errHandler.recoverInline(this);
}
else {
 this._errHandler.reportMatch(this);
   this.consume();
}
>>

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

// ACTION STUFF

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

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

SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
   throw new antlr4.error.FailedPredicateException(this,
 <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()  ::= "this.skip();"
LexerMoreCommand()  ::= "this.more();"
LexerPopModeCommand() ::= "this.popMode();"
LexerTypeCommand(arg, grammar)      ::= "this._type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "this._channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "this._mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "this.pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::=
 "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

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

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> == null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> == null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)
 ::= "(<ctx(r)>.<r.label> == null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> == null ? null : this._input.getText(new
antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"
```

```
ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)     ::= "this.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "this.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"

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

TokenDecl(t) ::= "this.<t.escapedName> = null;"
TokenTypeDecl(t) ::= "var <t.escapedName> = 0;"
TokenListDecl(t)
 ::= "this.<t.escapedName> = [];"
RuleContextDecl(r) ::= "this.<r.escapedName> = null;"
RuleContextListDecl(rdecl) ::= "this.<rdecl.escapedName> = [];"

ContextTokenGetterDecl(t)      ::= <<
<t.escapedName>() {
  return this.getToken(<parser.name>.<t.name>, 0);
};
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
<t.escapedName>_list() {
  return this.getTokens(<parser.name>.<t.name>);
}
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
<t.escapedName> = function(i) {
 if(i===undefined) {
  i = null;
 }
  if(i===null) {
     return this.getTokens(<parser.name>.<t.name>);
  } else {
     return this.getToken(<parser.name>.<t.name>, i);
  }
};

>>

ContextRuleGetterDecl(r)       ::= <<
<r.escapedName>() {
  return this.getTypedRuleContext(<r.ctxName>,0);
```

```
};
>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
<r.escapedName>_list() {
  return this.getTypedRuleContexts(<parser.name>.<r.ctxName>);
}
>>

ContextRuleListIndexedGetterDecl(r)
  ::= <<
<r.escapedName> = function(i) {
  if(i===undefined) {
     i = null;
  }
  if(i===null) {
     return this.getTypedRuleContexts(<r.ctxName>);
  } else {
     return this.getTypedRuleContext(<r.ctxName>,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> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName> extends
<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif> {

  constructor(parser, parent, invokingState<struct.ctorAttrs:{a
| , <a.escapedName>}>) {
     if(parent===undefined) {
        parent = null;
     }
```

```
      if(invokingState===undefined || invokingState===null) {
         invokingState = -1;
      }
      super(parent, invokingState);
      this.parser = parser;
      this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
      <attrs:{a | <a>}; separator="\n">
      <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName> || null;}; separator="\n">
   }

 <getters:{g | <g>}; separator="\n\n">

 <if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 copyFrom(ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
 <endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">

}

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName> extends <struct.parentRule; format="cap">Context {

   constructor(parser, ctx) {

      super(parser);
       <attrs:{a | <a>;}; separator="\n">
       super.copyFrom(ctx);
   }

 <getters:{g | <g>}; separator="\n\n">

 <dispatchMethods; separator="\n">

}

<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.escapedName>;

>>

ListenerDispatchMethod(method) ::= <<
<if(method.isEnter)>enter<else>exit<endif>Rule(listener) {
```

```
  if(listener instanceof <parser.grammarName>Listener ) {
     listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
 }
}

>>

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

>>

AttributeDecl(d) ::= "this.<d.escapedName> = <if(d.initValue)><d.initValue><else>null<endif>"

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

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

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

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx = new <ctxName>Context(this, _parentctx, _parentState);
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label> = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = new <currentAltLabel; format="cap">Context(this, new <ruleName; format="cap">Context(this,
_parentctx, _parentState));
<if(label)>
```

```
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label>
 = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
_prevctx = localctx;
>>

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!==null) {
   this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
import antlr4 from 'antlr4';

<namedActions.header>

<lexer>

>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';

<endif>
<atn>

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds, index) );

export default class <lexer.name> extends <if(superClass)><superClass><else>antlr4.Lexer<endif>
 {
```

```
  static grammarFileName = "<lexer.grammarFileName>";
  static channelNames = [ "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| "<c>"}; separator=", ", wrap, anchor><endif> ];
 static modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ];
 static literalNames = [ <lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

  constructor(input) {
     super(input)
     this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.atn.PredictionContextCache());
     <namedActions.members>
  }
}

<lexer.name>.EOF = antlr4.Token.EOF;
<if(lexer.tokens)>
<lexer.tokens:{k | <lexer.name>.<k> = <lexer.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<if(lexer.escapedChannels)>
<lexer.escapedChannels:{c|
 <lexer.name>.<c> = <lexer.escapedChannels.(c)>;}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
<rest(lexer.escapedModeNames):{m| <lexer.name>.<m> = <i>;}; separator="\n">

<endif>

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


>>

SerializedATN(model) ::= <<
const serializedATN = [<model.serialized: {s | <s>}; separator=",", wrap>];

>>

/** 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) ::= <<
<javacriptTypeInitMap.(typeName)>
>>
```

codeFileExtension() ::= ".js"

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
No license file was found, but licenses were detected in source scan.

/*
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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/*
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):

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg
No license file was found, but licenses were detected in source scan.

```
/*
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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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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
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();
  }
  //e.printStackTrace(System.err);
  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
options,
                        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 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($m);}))?
   opts=optionsSpec*
      {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, $opts.start, (GrammarAST)input.LT(1));}
      lexerRuleBlock
      {
      finishLexerRule((RuleAST)$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);
}
 : lexerAtom
 | lexerSubrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | EPSILON
 ;

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);}
  ;
```

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.g
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*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

phpTypeInitMap ::= [
 "int":"0",
 "long":"0",
 "float":"0.0",
 "double":"0.0",
 "boolean":"false",
 default:"null"
]

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

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;

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

```
* Enter a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context $context): void;
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
* Exit a parse
 tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context): void;};
separator="\n">
}
>>

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

use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
use Antlr\\Antlr4\\Runtime\\Tree\\ErrorNode;
use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;

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

/**
```

```
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context): void {\}};
separator="\n">

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function enterEveryRule(ParserRuleContext $context): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function exitEveryRule(ParserRuleContext $context): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function visitTerminal(TerminalNode $node): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function visitErrorNode(ErrorNode $node): void {}
}
>>

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

<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;

/**
```

```
 * This interface defines a complete generic visitor for a parse tree produced by {@see <file.parserName>}.
*/
interface <file.grammarName>Visitor extends ParseTreeVisitor
{
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.visitorLabelRuleNames.(lname)>()\}.
<else>
* Visit a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
*
* @param Context\\<lname; format="cap">Context $context The parse tree.
*
* @return mixed The visitor result.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context);};
separator="\n\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\AbstractParseTreeVisitor;

/**
* This class provides an
 empty implementation of {@see <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseVisitor extends AbstractParseTreeVisitor implements <file.grammarName>Visitor
{
 <file.visitorNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation returns the result of calling
* {@see self::visitChildren()\} on `context`.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context)
{
  return $this->visitChildren($context);
```

```
\}}; separator="\n\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
\<?php

/*
* Generated from <grammarFileName> by ANTLR <ANTLRVersion>
*/

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
namespace<if(file.genPackage)> <file.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use
 Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\ParserATNSimulator;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\FailedPredicateException;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\NoViableAltException;
 use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\RecognitionException;
 use Antlr\\Antlr4\\Runtime\\RuleContext;
 use Antlr\\Antlr4\\Runtime\\Token;
 use Antlr\\Antlr4\\Runtime\\TokenStream;
 use Antlr\\Antlr4\\Runtime\\Vocabulary;
 use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
 use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
 use Antlr\\Antlr4\\Runtime\\Parser;
<if(namedActions.definitions)><namedActions.definitions><endif>

 final class <parser.name> extends <superClass; null="Parser">
 {
  <if(parser.tokens)>
  public const <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=",
", wrap, anchor>;
  <endif>

  <if(parser.rules)>
  public const <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
  <endif>
```

```
/**
 * @var array\<string>
 */
public const RULE_NAMES = [
 <parser.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
];

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

<atn>
protected static $atn;
protected static $decisionToDFA;
protected static $sharedContextCache;
<if(namedActions.members)>

<namedActions.members>
<endif>


<parser:(ctor)()>

private static function initialize(): void
{
 if (self::$atn !== null) {
  return;
 }

 RuntimeMetaData::checkVersion('<file.ANTLRVersion>', RuntimeMetaData::VERSION);

 $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

 $decisionToDFA = [];
 for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
  $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
 }

 self::$atn = $atn;
 self::$decisionToDFA
= $decisionToDFA;
 self::$sharedContextCache = new PredictionContextCache();
}

public function getGrammarFileName(): string
{
 return "<parser.grammarFileName>";
}

public function getRuleNames(): array
```

```
 {
  return self::RULE_NAMES;
 }

 public function getSerializedATN(): array
 {
  return self::SERIALIZED_ATN;
 }

 public function getATN(): ATN
 {
  return self::$atn;
 }

 public function getVocabulary(): Vocabulary
     {
        static $vocabulary;

  return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
     }
<if(funcs)>

  <funcs; separator="\n\n">
<endif>
<if(sempredFuncs)>

 public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex): bool
 {
  switch ($ruleIndex) {
  <parser.sempredFuncs.values:{f|
 case <f.ruleIndex>:
  return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">

   default:
    return
true;
   }
 }

  <sempredFuncs.values; separator="\n\n">
<endif>
 }
}

namespace <if(file.genPackage)><file.genPackage>\\<endif>Context {
 use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
 use Antlr\\Antlr4\\Runtime\\Token;
 use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;
```

```
 use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;
 use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;
 use <if(file.genPackage)><file.genPackage>\\<endif><parser.name>;
 <if (file.genVisitor)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Visitor;<endif>
 <if (file.genListener)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Listener;<endif>
 <namedActions.contexts>

 <funcs :{ func | <func.ruleCtx><if(func.altLabelCtxs)>

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

vocabulary(literalNames, symbolicNames) ::= <<
/**
* @var array\<string|null>
*/
private const LITERAL_NAMES = [
   <literalNames:{t | <t>}; null="null",
 separator=", ", wrap, anchor>
];

/**
* @var array\<string>
*/
private const SYMBOLIC_NAMES = [
   <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>

public function action(?RuleContext $localContext, int $ruleIndex, int $actionIndex): void
{
 switch ($ruleIndex) {
 <recog.actionFuncs.values:{f|
 case <f.ruleIndex>:
  $this->action<f.name; format="cap">($localContext, $actionIndex);
  break;}; separator="\n\n">
 }
}

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>

public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex): bool
```

```
{
 switch ($ruleIndex) {
 <recog.sempredFuncs.values:{f|
   case <f.ruleIndex>:
       return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">
 }

 return true;
}
<sempredFuncs.values; separator="\n\n">
<endif>
>>

parser_ctor(p) ::= <<
public function __construct(TokenStream
 $input)
{
 parent::__construct($input);

 self::initialize();

 $this->interp = new ParserATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}
>>

/**
* This generates a private method since the actionIndex is generated, making
* an overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private function action<r.name; format="cap">(?<r.ctxType> $localContext, int $actionIndex): void
{
 switch ($actionIndex) {
 <actions:{index|
 case <index>:
 <actions.(index)>

 break;}; separator="\n\n">
 }
}
>>

/**
* This generates a private method since the predicateIndex is generated, making
* an overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private function sempred<r.name; format="cap">(?Context\\<r.ctxType> $localContext, int $predicateIndex): bool
```

```
{
 switch ($predicateIndex) {
 <actions:{index|
   case <index>:
      return <actions.(index)>;}; separator="\n\n">
 }

 return
 true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,exceptions,postamble)
::= <<
/**
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=",">): Context\\<currentRule.ctxType>
{
  $localContext = new Context\\<currentRule.ctxType>($this->ctx, $this->getState()<currentRule.args:{a | ,
$<a.name>}>);

  $this->enterRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">

  try {
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  }<if(exceptions)><exceptions; separator="\n"><else> catch (RecognitionException $exception) {
     $localContext->exception = $exception;
     $this->errorHandler->reportError($this, $exception);
     $this->errorHandler->recover($this, $exception);
  }<endif> finally {

     <finallyAction>
     $this->exitRule();
  }

  return $localContext;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamb
le) ::= <<
/**
```

```
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=", ">): Context\\<currentRule.ctxType>
{
 return $this->recursive<currentRule.name; format="cap">(0<currentRule.args:{a | , <a.name>}>);
}

/**
* @throws RecognitionException
*/
private function recursive<currentRule.name; format="cap">(int $precedence<args:{a | , <a>}>):
Context\\<currentRule.ctxType>
{
 $parentContext = $this->ctx;
 $parentState = $this->getState();
 $localContext = new Context\\<currentRule.ctxType>($this->ctx, $parentState<currentRule.args:{a | ,
<a.name>}>);
 $previousContext = $localContext;
 $startState = <currentRule.startState>;
 $this->enterRecursionRule($localContext, <currentRule.startState>,
 self::RULE_<currentRule.name>, $precedence);
 <namedActions.init>
 <locals; separator="\n">

 try {
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 } catch (RecognitionException $exception) {
  $localContext->exception = $exception;
  $this->errorHandler->reportError($this, $exception);
  $this->errorHandler->recover($this, $exception);
 } finally {
  <finallyAction>
  $this->unrollRecursionContexts($parentContext);
 }

 return $localContext;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>$localContext = new
Context\\<currentOuterMostAltCodeBlock.altLabel; format="cap">Context($localContext);<endif>
$this->enterOuterAlt($localContext, <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) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->input->LA(1)) {
   <choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n\n">

default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->input->LA(1)) {
   <choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n\n">

default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<preamble; separator="\n">

if (<expr>) {
 <alts; separator="\n">
}
>>
```

```
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

<preamble;
 separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

<preamble; separator="\n">
do {
 <alts; separator="\n">
 $this->setState(<choice.stateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);
 <iteration>
} while (<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
 <alts:{alt |
case <i>:
   <alt>
break;}; separator="\n\n">
}
>>

OptionalBlock(choice,
 alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
```

```
switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
<alts:{alt |
  case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
 break;}; separator="\n\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);

while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER) {
 if ($alt === 1<if(!choice.ast.greedy)>+1<endif>) {
  <iteration>
  <alts> <! should only be one !>
 }

 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($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\n">
 default:
  <error>
 }

 $this->setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
```

```
} while ($alt !== <choice.exitAlt> && $alt !== 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.tokens)))><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
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName,
 bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName, bits.shift)>) & <bits.calculated>) !== 0)
%>

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

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>($<shiftAmount> - <offset>)<else>$<shiftAmount><endif>
%>
offsetShiftConst(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(self::<shiftAmount> - <offset>)<else>self::<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | $<s.varName> === self::<t.name>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case self::<t.name>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
$this->setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> = }><endif>$this-><if(r.ast.options.p)>recursive<r.name;
format="cap"><else><r.name><endif>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif>
<argExprsChunks>);
>>
```

```
MatchToken(m) ::= <<
$this->setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>$this->match(self::<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) ::= <<
$this->setState(<m.stateNumber>);

<if(m.labels)><m.labels:{l | <labelref(l)> = }>$this->input->LT(1);<endif>
<capture>

if (<if(invert)>$<m.varName> \<= 0 || <else>!<endif>(<expr>)) {
    <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>$this->errorHandler->recoverInline($this);
} else {
 if ($this->input->LA(1) === Token::EOF) {
    $this->matchedEOF = true;
  }

 $this->errorHandler->reportMatch($this);
 $this->consume();
}
>>

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

// ACTION STUFF

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

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

SemPred(p, chunks, failChunks) ::= <<
$this->setState(<p.stateNumber>);

if
 (!(<chunks>)) {
  throw new FailedPredicateException($this, <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()  ::= "$this->skip();"
LexerMoreCommand()  ::= "$this->more();"
LexerPopModeCommand() ::= "$this->popMode();"

LexerTypeCommand(arg, grammar)      ::= "$this->type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "$this->channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "$this->mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "$this->pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "$localContext-><a.name>"
LocalRef(a) ::= "$localContext-><a.name>"
RetValueRef(a) ::= "$localContext-><a.name>"
QRetValueRef(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 ? (int) <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 ? $this->input->getTextByTokens(<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) ::= "$localContext->start"
ThisRulePropertyRef_stop(r)  ::= "$localContext->stop"
ThisRulePropertyRef_text(r)  ::= "$this->input->getTextByTokens($localContext->start, $this->input->LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "$localContext"
ThisRulePropertyRef_parser(r):= "$this"

NonLocalAttrRef(s)        ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>-><a.listName>[]
 = <labelref(a.label)>;"

TokenDecl(t) ::= "<TokenLabelType()> $<t.name>"
TokenTypeDecl(t) ::= ""
TokenListDecl(t) ::= "array $<t.name> = []"
RuleContextDecl(r) ::= "<r.ctxName> $<r.name>"
RuleContextListDecl(rdecl) ::= "array $<rdecl.name> = []"
AttributeDecl(d) ::= "<d.type> $<d.name><if(d.initValue)> = <d.initValue><endif>"

PropertiesDecl(struct) ::= <<
<if(struct.tokenListDecls)>
 <struct.tokenListDecls : {d | /**
* @var array\<Token>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.tokenDecls)>
<if(struct.tokenListDecls)>

<endif>
 <struct.tokenDecls : {d | /**
* @var <TokenLabelType()>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextDecls)>
<if(struct.tokenListDecls || struct.tokenDecls)>

<endif>
 <struct.ruleContextDecls : {d | /**
* @var <d.ctxName>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextListDecls)>
```

```
<if(struct.tokenListDecls || struct.tokenDecls
 || struct.ruleContextDecls)>

<endif>
 <struct.ruleContextListDecls : {d | /**
* @var array\<<d.ctxName>\>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.attributeDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls || struct.ruleContextListDecls)>

<endif>
 <struct.attributeDecls : {d | /**
* @var <d.type><if(!d.initValue)>|null<endif> $<d.name>
*/
public $<d.name><if(d.initValue)> = <d.initValue><endif>;}; separator="\n\n">
<endif>

>>

ContextTokenGetterDecl(t) ::= <<
public function <t.name>(): ?TerminalNode
{
  return $this->getToken(<parser.name>::<t.name>, 0);
}
>>

ContextTokenListGetterDecl(t)  ::= <<
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
/**
* @return array\<TerminalNode>|TerminalNode|null
*/
public function <t.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTokens(<parser.name>::<t.name>);
 }

  return $this->getToken(<parser.name>::<t.name>, $index);
}
>>

ContextRuleGetterDecl(r)
      ::= <<
public function <r.name>(): ?<r.ctxName>
```

```
{
 return $this->getTypedRuleContext(<r.ctxName>::class, 0);
}
>>

ContextRuleListGetterDecl(r)   ::= <<
>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
/**
* @return array\<<r.ctxName>\>|<r.ctxName>|null
*/
public function <r.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTypedRuleContexts(<r.ctxName>::class);
 }

   return $this->getTypedRuleContext(<r.ctxName>::class, $index);
}
>>

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) ::= "$<d.varName> = \$this->input->LT(1);"
CaptureNextTokenType(d) ::= "$<d.varName> = $this->input->LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures)
 ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif>
{
<PropertiesDecl(struct)>
 public function __construct(?ParserRuleContext $parent, ?int $invokingState = null<ctorAttrs:{a | , ?<a> = null}>)
 {
  parent::__construct($parent, $invokingState);
<if(struct.ctorAttrs)>
```

```
  <struct.ctorAttrs:{a | $this-><a.name> = $<a.name> ?? $this-><a.name>;}; separator="\n">
<endif>
 }

 public function getRuleIndex(): int
 {
     return <parser.name>::RULE_<struct.derivedFromName>;
   }
<if(getters)>

   <getters:{g | <g>}; separator="\n\n">
<endif>
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public function copyFrom(ParserRuleContext $context): void
 {
  parent::copyFrom($context);

  <struct.attrs:{a | $this-><a.name> = $context-><a.name>;}; separator="\n">
 }
<endif>
<if(dispatchMethods)>

 <dispatchMethods;
 separator="\n\n">
<endif>
<if(extensionMembers)>

 <extensionMembers; separator="\n\n">
<endif>
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context
{
<PropertiesDecl(struct)>
 public function __construct(<struct.parentRule; format="cap">Context $context)
 {
     parent::__construct($context);

     $this->copyFrom($context);
   }
<if(getters)>

   <getters:{g | <g>}; separator="\n\n">
<endif>
<if(dispatchMethods)>
```

```
 <dispatchMethods; separator="\n\n">
<endif>
}
>>

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

VisitorDispatchMethod(method) ::= <<
public function accept(ParseTreeVisitor $visitor): mixed
{
 if ($visitor instanceof
 <parser.grammarName>Visitor) {
    return $visitor->visit<struct.derivedFromName; format="cap">($this);
  }

 return $visitor->visitChildren($this);
}
>>

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

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "$localContext"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "\$this->precpred(\$this->ctx, <opPrec>)"

recRuleSetReturnAction(src,name)   ::= "\$<name> = \$<src>-><name>;"

recRuleSetStopToken()                 ::= "$this->ctx->stop = $this->input->LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
$localContext = new Context\\<ctxName>Context($parentContext, $parentState);
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
```

```
<endif>

$this->pushNewRecursionContext($localContext,
 $startState, self::RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
$localContext = new Context\\<currentAltLabel; format="cap">Context(new Context\\<ruleName;
format="cap">Context($parentContext, $parentState));
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
$localContext = new Context\\<ctxName>Context($localContext);
$this->ctx = $localContext;
$previousContext = $localContext;
>>

recRuleSetPrevCtx() ::= <<
if ($this->getParseListeners() !== null) {
   $this->triggerExitRuleEvent();
}

$previousContext = $localContext;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass)
 ::= <<
namespace<if(lexerFile.genPackage)> <lexerFile.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\LexerATNSimulator;
 use Antlr\\Antlr4\\Runtime\\Lexer;
 use Antlr\\Antlr4\\Runtime\\CharStream;
```

```
 use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
 use Antlr\\Antlr4\\Runtime\\RuleContext;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Vocabulary;
 use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
 use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
<if(namedActions.definitions)><namedActions.definitions><endif>

 final class <lexer.name> extends <superClass; null="Lexer">
 {
  <if(lexer.tokens)>
  public const <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
  <endif>

  <if(lexer.escapedChannels)>
  public const <lexer.escapedChannels:{c | <c> = <lexer.escapedChannels.(c)>};
 separator=", ", wrap, anchor>;
  <endif>

  <if(rest(lexer.escapedModeNames))>
  public const <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
  <endif>

  /**
   * @var array\<string>
   */
  public const CHANNEL_NAMES = [
   'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channelNames)>, <lexer.channelNames:{c| '<c>'};
separator=", ", wrap, anchor><endif>
  ];

  /**
   * @var array\<string>
   */
  public const MODE_NAMES = [
   <lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
  ];

  /**
   * @var array\<string>
   */
  public const RULE_NAMES = [
   <lexer.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
  ];

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

```
 <atn>
 protected static $atn;
 protected static $decisionToDFA;
 protected static $sharedContextCache;
<if(namedActions.members)>

 <namedActions.members>
<endif>

 public function __construct(CharStream $input)
 {
  parent::__construct($input);

  self::initialize();

  $this->interp
 = new LexerATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
 }

 private static function initialize(): void
 {
  if (self::$atn !== null) {
   return;
  }

  RuntimeMetaData::checkVersion('<lexerFile.ANTLRVersion>', RuntimeMetaData::VERSION);

  $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

  $decisionToDFA = [];
  for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
   $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
  }

  self::$atn = $atn;
  self::$decisionToDFA = $decisionToDFA;
  self::$sharedContextCache = new PredictionContextCache();
 }

 public static function vocabulary(): Vocabulary
 {
  static $vocabulary;

  return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
 }

 public function getGrammarFileName(): string
 {
```

```
  return '<lexer.grammarFileName>';
 }

 public function getRuleNames(): array
 {
  return
self::RULE_NAMES;
 }

 public function getSerializedATN(): array
 {
  return self::SERIALIZED_ATN;
 }

 /**
  * @return array\<string>
  */
 public function getChannelNames(): array
 {
  return self::CHANNEL_NAMES;
 }

 /**
  * @return array\<string>
  */
 public function getModeNames(): array
 {
  return self::MODE_NAMES;
 }

 public function getATN(): ATN
 {
  return self::$atn;
 }

 public function getVocabulary(): Vocabulary
 {
  return self::vocabulary();
 }
 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
}
}
>>

SerializedATN(model) ::= <<
private const SERIALIZED_ATN =
 [<model.serialized: {s | <s>}; separator=", ", wrap={<\n>    }>];
>>
```

```
/**
* 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) ::= <<
<phpTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".php"
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/PHP/PHP.stg
No license file was found, but licenses were detected in source scan.

```
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

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):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ATNBuilder.g
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```
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*  Copyright (c) 2014 Eric Vergnaud
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*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
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*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // 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)>
# encoding: utf-8
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
 from typing import TextIO
else:
 from typing.io import TextIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

  <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
   pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  pass

}; separator="\n">

del <file.parserName>
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
```

```
if "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

  <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR
 <ANTLRVersion>
>>

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

  grammarFileName = "<parser.grammarFileName>"

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]
```

```
  sharedContextCache = PredictionContextCache()

  literalNames = [ <parser.literalNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  <if(parser.rules)>
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>
  <endif>

  ruleNames =
 [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

  EOF = <TokenLabelType()>.EOF
  <if(parser.tokens)>
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f |
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
          raise Exception("No predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
```

```
    if self._actions is None:
        actions = dict()
<recog.actionFuncs.values:{f|
        actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
        self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates is None:
        preds = dict()
<recog.sempredFuncs.values:{f|
        preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
        self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self,
 input:TokenStream, output:TextIO = sys.stdout):
    super().__init__(input, output)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
```

```
<if(first(actions))>
  if actionIndex == <index>:
     <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
     <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
  <actions:{index|
<if(first(actions))>
   if predIndex == <index>:
     return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
     return <actions.(index)>
<endif> }; separator="\n">

>>

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

<ruleCtx>

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

def <currentRule.escapedName>(self<currentRule.args:{a | , <a.escapedName><if(a.type)>:<a.type><endif>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | ,
<a.escapedName>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  except RecognitionException as re:
     localctx.exception = re
```

```
        self._errHandler.reportError(self,
 re)
        self._errHandler.recover(self, re)
    <endif>
    finally:
        <finallyAction>
        self.exitRule()
    return localctx

>>

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

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

def <currentRule.escapedName>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
    _parentctx = self._ctx
    _parentState = self.state
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.escapedName>}>)
    _prevctx = localctx
    _startState = <currentRule.startState>
    self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    except RecognitionException as re:
        localctx.exception = re

    self._errHandler.reportError(self, re)
        self._errHandler.recover(self, re)
    finally:
        <finallyAction>
        self.unrollRecursionContexts(_parentctx)
    return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.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) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
    <alt>
  pass}; separator="\nel">
else:
  <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
  pass}; separator="\nel">
else:
  pass
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">

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


LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
```

```
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt
 block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
  <alts; separator="\n">
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
     break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i>:
  <alt>
  pass
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
```

```
>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt
 = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
     <iteration>
     <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
     <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

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

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

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

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

```
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & <bits.calculated>) != 0)
%>

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

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

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

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t
 | <s.varName>==<t.type>}; separator=" or ">
%>

cases(tokens) ::= <<
if token in [<tokens:{t | <t.type>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<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) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
```

```
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
    self._errHandler.reportMatch(self)
  self.consume()
>>

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

// ACTION STUFF

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

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

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
  from antlr4.error.Errors import FailedPredicateException
  raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
except <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.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
```

```
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

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

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None
 else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

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

NonLocalAttrRef(s)     ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"

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

TokenDecl(t) ::= "self.<t.escapedName> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.escapedName> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.escapedName> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.escapedName> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.escapedName> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.escapedName>(self):
  return self.getToken(<parser.name>.<t.name>, 0)
>>
```

```
// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
  return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.escapedName>(self,
 i:int=None):
  if i is None:
     return self.getTokens(<parser.name>.<t.name>)
  else:
     return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r)       ::= <<
def <r.escapedName>(self):
  return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.escapedName>(self, i:int=None):
  if i is None:
     return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
  else:
     return self.getTypedRuleContext(<parser.name>.<r.ctxName>,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> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
  __slots__ = 'parser'

  def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,
<a.escapedName><if(a.type)>:<a.type><endif>=None}>):
      super().__init__(parent, invokingState)
      self.parser = parser
      <attrs:{a | <a>}; separator="\n">
      <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>}; separator="\n">

  <getters:{g | <g>}; separator="\n\n">

  def getRuleIndex(self):
      return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
   def copyFrom(self, ctx:ParserRuleContext):
      super().copyFrom(ctx)
      <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName>(<currentRule.name; format="cap">Context):

  def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
      super().__init__(parser)
      <attrs:{a | <a>}; separator="\n">
      self.copyFrom(ctx)

  <getters:{g | <g>}; separator="\n">

  <dispatchMethods; separator="\n">

>>
```

```
ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
   if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
      listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
 format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
   if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
      return visitor.visit<struct.derivedFromName; format="cap">(self)
   else:
      return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.escapedName> = <if(d.initValue)><d.initValue><else>None<endif>"

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

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

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

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx =
 <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
```

```
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
  self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName,
 lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
  from typing import TextIO
else:
  from typing.io import TextIO

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>
<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):
```

```
  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.escapedChannels)>
  <lexer.escapedChannels:{c| <c> = <lexer.escapedChannels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
  <rest(lexer.escapedModeNames):{m| <m> = <i>}; separator="\n">

<endif>
  <if(lexer.tokens)>
  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

   channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| u"<c>"}; separator=", ", wrap, anchor><endif> ]

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

  literalNames = [ "\<INVALID>",
        <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ "\<INVALID>",
        <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

  ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

  grammarFileName = "<lexer.grammarFileName>"

  def __init__(self, input=None, output:TextIO = sys.stdout):
     super().__init__(input, output)
     self.checkVersion("<lexerFile.ANTLRVersion>")
     self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
     self._actions = None
     self._predicates = None

  <namedActions.members>

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

>>

SerializedATN(model)
 ::= <<
def serializedATN():
```

```
  return [
     <model.serialized: {s | <s>}; separator=",", wrap>
  ]
>>

/** 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) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"
```

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 -->
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*/

/** 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)
;

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*
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*/

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)
   ;

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

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

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

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

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
 <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
*/
T visit<lname; format="cap">(<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.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 \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
@SuppressWarnings("CheckReturnValue")
public class <file.grammarName>BaseVisitor\<T> extends AbstractParseTreeVisitor\<T> implements
<file.grammarName>Visitor\<T>
 {
 <file.visitorNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
@Override public T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { return
visitChildren(ctx); \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue"})
public class <parser.name> extends <superClass; null="Parser"> {
 static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 <if(parser.tokens)>
 public
```

```
 static final int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(parser.rules)>
 public static final int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 <endif>
 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>"; }

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

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

 @Override
 public ATN getATN() { return _ATN; }

 <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

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((<f.ctxType>)_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((<f.ctxType>)_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,_decisionToDFA,_sharedContextCache);
}
>>

/* 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)
 ::= <<

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

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=","">) throws RecognitionException {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.escapedName>}>);
 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;
}
>>

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

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

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

private <currentRule.ctxType> <currentRule.escapedName>(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.escapedName>}>);
 <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(tokens=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(tokens=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.tokens)))><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
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
<bits.calculated>L) != 0)
%>

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

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

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<t.name>}; separator=" || ">
%>

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

InvokeRule(r, argExprsChunks)
 ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>

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

```
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)> = (Token)}><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 new FailedPredicateException(this, <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.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a)
 ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <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.escapedName>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>
```

```
 = <rhsChunks>;"

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

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

ContextTokenGetterDecl(t)      ::=
   "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t)  ::=
   "public List\<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.escapedName>() {
 return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
public
 List\<<r.ctxName>\> <r.escapedName>() {
 return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
public <r.ctxName> <r.escapedName>(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,signatures)
 ::= <<
@SuppressWarnings("CheckReturnValue")
public static class <struct.escapedName> 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.escapedName>(ParserRuleContext parent, int invokingState) { super(parent,
invokingState); }<endif>
 public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>) {
  super(parent, invokingState);
  <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 @Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.escapedName>() { }
 public void copyFrom(<struct.escapedName> ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
@SuppressWarnings("CheckReturnValue")
public static class
 <struct.escapedName> extends <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.escapedName>(<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 \<T> T accept(ParseTreeVisitor\<? extends T> visitor) {
 if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor\<? extends
T>)visitor).visit<struct.derivedFromName; format="cap">(this);
 else return visitor.visitChildren(this);
}
>>

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

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

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

// 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>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new
 <ruleName; format="cap">Context(_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(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
package <lexerFile.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) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue"})
public class <lexer.name> extends <superClass; null="Lexer"> {
 static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 <if(lexer.tokens)>
 public static final int
  <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(lexer.escapedChannels)>
```

```
public static final int
 <lexer.escapedChannels:{c | <c>=<lexer.escapedChannels.(c)>}; separator=", ", wrap, anchor>;
<endif>
<if(rest(lexer.escapedModeNames))>
public static final int
 <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>
public static String[]
channelNames = {
 "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{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,_decisionToDFA,_sharedContextCache);
}

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

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

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

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

@Override
public String[] getModeNames()
```

```
 { return modeNames; }

 @Override
 public ATN getATN() { return _ATN; }

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

SerializedJavaATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
<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 {
 _decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
 for (int i = 0; i \< _ATN.getNumberOfDecisions(); i++) {
  _decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
 }
<! 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):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
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*     notice, this list of conditions and the following disclaimer in the
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*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
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*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** 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):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 20162022 The ANTLR Project. All rights reserved.
* Licensed under the BSD-3-Clause license. See LICENSE file in the project root for license information.
*/
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/TypeScriptTarget.java
No license file was found, but licenses were detected in source scan.

```
/*
[The "BSD license"]
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modification, are permitted provided that the following conditions
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2. Redistributions in binary form must reproduce the above copyright
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3. The name of the author may not be used to endorse or promote products
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THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ATNBuilder.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2012-2017 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.
*/

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/SemanticPipeline.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/RuleCollector.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/StarBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TestRig.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/MatchNotSet.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarASTAdaptor.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RuleElementAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursionDetector.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/DartTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreePostScriptGenerator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/ActionSniffer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/AttributeDict.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/SystemFontMetrics.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Loop.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Lexer.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreeLayoutAdaptor.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNPrinter.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/TailEpsilonRemover.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/AddToLabelList.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenListDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/OutputModelWalker.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/CodeGeneratorExtension.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/CSharpTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/ActionAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Wildcard.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/UseDefAnalyzer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Grammar.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/BasicFontMetrics.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ListenerDispatchMethod.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarRootAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/SetAttr.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/AnalysisPipeline.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarTransformPipeline.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreeViewer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/OptionalBlockAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/Python3Target.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/OutputFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/CodeBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/GoTarget.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/SymbolCollector.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ThrowNoViableAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Attribute.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/OptionalBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/CodeGenerator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/BlankActionSplitterListener.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenTypeDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_stop.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ParserFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ANTLRMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_pos.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LexerFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNVisitor.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionText.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/PostScriptDocument.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/OrderedHashMap.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/SetAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/DOTGenerator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/CodeGenPipeline.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/unicode/UnicodeDataTemplateController.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/EscapeSequenceParsing.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Rule.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/BuildDependencyGenerator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java
*

/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ErrorType.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTVisitor.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/DispatchMethod.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Sync.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/Decl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/LexerFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/CaptureNextToken.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/JavaTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/MutableInt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/LexerATNFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ElementListDecl.java
*
/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/InvokeRule.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/PHPTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ToolANTLRParser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ListenerFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/Trees.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/PredAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/BlockAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_parser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/SrcOp.java
*
/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/JavaScriptTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/BasicSemanticChecks.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarSemanticsMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Recognizer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/MatchToken.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/SemPred.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/AttributeResolver.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/NotAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LexerGrammar.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/v4ParserException.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/PlusBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ActionSplitterListener.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java
*
/antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/Graph.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RetValueRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/RuleElement.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/SwiftTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlockSingleAlt.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ArgAction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RuleRefAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_ctx.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ExceptionClause.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/SymbolChecks.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_ctx.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/BaseVisitorFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_type.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/CppTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ThrowRecognitionException.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ANTLRToolListener.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/StarBlockAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/CaptureNextTokenType.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_parser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/DefaultToolListener.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1Loop.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_index.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/LabelRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/CharSupport.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RuleAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/Target.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_text.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/LocalRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ScopeParser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/BaseListenerFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/OutputModelObject.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LeftRecursiveRule.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_start.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/UnicodeEscapes.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_channel.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ErrorSeverity.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ToolMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/OutputModelFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/Tool.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/Python2Target.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LabelType.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/QuantifierAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/StructDecl.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/TokenVocabParser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1AltBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/PlusBlockAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/AltAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_line.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/TerminalAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ParserATNFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RangeAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/ParserFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/VisitorFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Choice.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/MatchSet.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarParserInterpreter.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/ActionTranslator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/RuleActionFunction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNOptimizer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Action.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/Utils.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ErrorManager.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/RuleSempredFunction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/RuleFunction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ModelElement.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/AltBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/dbg.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/SerializedATN.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/AttributeChecks.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/TestSetInline.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/FrequencySet.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ToolANTLRLexer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ElementFrequenciesVisitor.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Alternative.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Parser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LabelElementPair.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/BlankOutputModelFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1Choice.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreeTextProvider.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LabeledOp.java
*
/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarToken.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/OutputModelController.java
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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):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/BlockSetTransformer.g
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```
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```

```
 */
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/GraphicsSupport.java
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*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

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="&epsilon;"<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):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/dot/graphs.stg
No license file was found, but licenses were detected in source scan.

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*/

/** ANTLR tool checks output templates are compatible with tool code generation.
* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.

```
*
*  REQUIRED.
*/

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // 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)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
import sys

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

   <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx):
   pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx):
   pass

}; separator="\n">

>>
```

```
VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

   <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
   return self.visitChildren(ctx)

}; separator="\n">

>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
   from .<superClass> import <superClass>
else:
   from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

   grammarFileName = "<parser.grammarFileName>"

   atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]
```

```
  sharedContextCache = PredictionContextCache()

  literalNames = [ <parser.literalNames:{t | u<t>}; null="u\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  symbolicNames = [ <parser.symbolicNames:{t | u<t>}; null="u\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  <if(parser.rules)>
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>
  <endif>

  ruleNames =  [ <parser.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

  EOF = <TokenLabelType()>.EOF
  <if(parser.tokens)>
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx, ruleIndex, predIndex):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f
|
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
          raise Exception("No predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
  if self._actions is None:
```

```
        actions = dict()
<recog.actionFuncs.values:{f|
        actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
        self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
     if self._predicates is None:
        preds = dict()
<recog.sempredFuncs.values:{f|
        preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
        self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input, output=sys.stdout):
    super(<parser.name>, self).__init__(input, output=output)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
<actions:{index|
<if(first(actions))>
```

```
    if actionIndex == <index>:
        <actions.(index)>
<elseif(rest(actions))>
    elif actionIndex == <index>:
        <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
    <actions:{index|
<if(first(actions))>
    if predIndex == <index>:
        return <actions.(index)>
<elseif(rest(actions))>
    elif predIndex == <index>:
        return <actions.(index)>
<endif> }; separator="\n">

>>

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

<ruleCtx>

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

def <currentRule.escapedName>(self<currentRule.args:{a | , <a.escapedName>}>):

    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a
| , <a.escapedName>}>)
    self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    <if(exceptions)>
    <exceptions; separator="\n">
    <else>
    except RecognitionException as re:
        localctx.exception = re
        self._errHandler.reportError(self, re)
```

```
      self._errHandler.recover(self, re)
  <endif>
  finally:
      <finallyAction>
      self.exitRule()
  return localctx

>>

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

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

def <currentRule.escapedName>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a
| , <a.escapedName>}>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  try:
      <code>
      <postamble; separator="\n">
      <namedActions.after>
  except RecognitionException as re:
      localctx.exception = re
      self._errHandler.reportError(self, re)
      self._errHandler.recover(self, re)
  finally:
      <finallyAction>
      self.unrollRecursionContexts(_parentctx)
  return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.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) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
  pass}; separator="\nel">
else:
  <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
  pass}; separator="\nel">
else:
  pass
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">

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


LL1StarBlockSingleAlt(choice,
 loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
```

```
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
  <alts; separator="\n">
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
     break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ ==
 <i>:
  <alt>
  pass
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
```

```
>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
     <iteration>
     <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while
 _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
     <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

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

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

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

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

```
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
 bits.shift)>) & <bits.calculated>) != 0)
%>

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

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

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

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<t.type>}; separator=" or ">
%>

cases(tokens) ::= <<
if token in [<tokens:{t | <t.type>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<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) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
```

```
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
  self._errHandler.reportMatch(self)
  self.consume()
>>

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

// ACTION STUFF

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

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

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
  from antlr4.error.Errors import FailedPredicateException
  raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction)
 ::= <<
except <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.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
```

```
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

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

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is
 None else self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

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

NonLocalAttrRef(s)     ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"

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

TokenDecl(t) ::= "self.<t.escapedName> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.escapedName> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.escapedName> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.escapedName> = None # <r.ctxName>"
RuleContextListDecl(rdecl)
 ::= "self.<rdecl.escapedName> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.escapedName>(self):
  return self.getToken(<parser.name>.<t.name>, 0)
>>
```

```
// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
  return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.escapedName>(self, i=None):
  if i is None:
     return self.getTokens(<parser.name>.<t.name>)
  else:
     return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r)       ::= <<
def <r.escapedName>(self):
  return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.escapedName>(self, i=None):
  if i is None:
     return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
   else:
     return self.getTypedRuleContext(<parser.name>.<r.ctxName>,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> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

  def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.escapedName>=None}>):
     super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)

 self.parser = parser
     <attrs:{a | <a>}; separator="\n">
     <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>}; separator="\n">

  <getters:{g | <g>}; separator="\n\n">

  def getRuleIndex(self):
     return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
  def copyFrom(self, ctx):
     super(<parser.name>.<struct.name>, self).copyFrom(ctx)
     <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName>(<currentRule.name; format="cap">Context):

  def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context)
     super(<parser.name>.<struct.name>, self).__init__(parser)
     <attrs:{a | <a>}; separator="\n">
     self.copyFrom(ctx)

   <getters:{g | <g>}; separator="\n">

  <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
  if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">"):
     listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)
```

```
>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
  if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
     return visitor.visit<struct.derivedFromName; format="cap">(self)
  else:
     return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.escapedName> = <if(d.initValue)><d.initValue><else>None<endif>"

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

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

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

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState,
```

```
 self.RULE_<ruleName>)
>>


recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
   self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
import sys

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
   from .<superClass> import <superClass>
else:
   from <superClass> import <superClass>

<endif>

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

   atn = ATNDeserializer().deserialize(serializedATN())

   decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.escapedChannels)>
```

```
    <lexer.escapedChannels:{c| <c> = <lexer.escapedChannels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
  <rest(lexer.escapedModeNames):{m| <m> = <i>}; separator="\n">

<endif>
  <if(lexer.tokens)>
  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| u"<c>"}; separator=", ", wrap, anchor><endif> ]

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

  literalNames = [ u"\<INVALID>",
        <lexer.literalNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ u"\<INVALID>",
        <lexer.symbolicNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  ruleNames = [ <lexer.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

  grammarFileName = u"<lexer.grammarFileName>"

  def __init__(self, input=None, output=sys.stdout):

  super(<lexer.name>, self).__init__(input, output=output)
     self.checkVersion("<lexerFile.ANTLRVersion>")
     self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
     self._actions = None
     self._predicates = None

  <namedActions.members>

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

>>

SerializedATN(model) ::= <<
def serializedATN():
  return [
     <model.serialized: {s | <s>}; separator=",", wrap>
  ]
>>

/** 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) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
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*/
```

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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">
>>
```

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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 grammars 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 {
/*
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```

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*/
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
 boolean withinOptionsBlock = false;
 while (i >= 0 && i < n) {
  int ttype = tokens.get(i).getType();
  if (withinOptionsBlock) {
   // Ignore rule options content
   if (ttype == OPTIONS) {
    withinOptionsBlock = false;
   }
  }
  else {
   if (ttype == RBRACE) {
    withinOptionsBlock = true;
   }
   else 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 descriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We alo 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

        | ('\'')=>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;} )?
 ;

// ----------------
// 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 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'             ;
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    : '?'                   ;
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
    {
      // TODO: Add target specific code to change the source file name and current line number
      //
    }
  ;

// --------------
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx
 or \u{xxxxxx},
// where x is a valid hexadecimal number.
STRING_LITERAL
  :  '\'' ( ( ESC_SEQ | ~('\\'|'\''|'\r'|'\n') ) )*
    (    '\''
    |    // Unterminated string literal
         {
         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.UNTERMINATED_STRING_LITERAL, t);
         }
    )
  ;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
  : '\\'
     (
          // The standard escaped character set such as tab, newline, etc...
```

```
      'b'|'t'|'n'|'f'|'r'|'\"'|'\\'

      | // A Java style Unicode escape sequence
        UNICODE_ESC

        | // A
Swift/Hack style Unicode escape sequence
          UNICODE_EXTENDED_ESC

      | // 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.b--;
  }
  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):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.g
No license file was found, but licenses were detected in source scan.

/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
```

```
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*  Copyright (c) 2015 Janyou
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

SwiftTypeInitMap ::= [
 "Int":"0",
 "Int64":"0",
 "Float":"0.0",
 "Double":"0.0",
 "Bool":"false",
 default:"nil" // anything other than a primitive type is an object
]
SwiftTypeMap ::= [
 "int":"Int",
 "float":"Float",
 "long":"Int64",
 "double":"Double",
 "bool":"Bool",
 "boolean":"Bool",
 default : key
]
// args must be <object-model-object>,
```

```
 <fields-resulting-in-STs>

accessLevelOpenOK(obj) ::= "<obj.accessLevel; null=\"open\">"
accessLevelNotOpen(obj) ::= "<obj.accessLevel; null=\"public\">"

ParserFile(file, parser, namedActions,contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
<accessLevelNotOpen(file)> protocol <file.grammarName>Listener: 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>
- Parameters:
  - ctx: the parse tree
*/
func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)
/**
<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>
```

```
- Parameters:
  - ctx: the parse tree
*/
func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)}; separator="\n">
}
>>

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

import Antlr4


/**
* 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.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseListener: <file.grammarName>Listener {
    <accessLevelNotOpen(file)> init() { \}
 <file.listenerNames:{lname |

/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}}; separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func enterEveryRule(_ ctx: ParserRuleContext) throws { }
```

```
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func exitEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *

 * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitTerminal(_ node: TerminalNode) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitErrorNode(_ node: ErrorNode) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
<accessLevelOpenOK(file)> class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
 <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>
- Parameters:
 - ctx: the parse tree
```

```
- returns: the visitor result
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T {
 fatalError(#function + " must be overridden")
\}
}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* 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 \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
 <file.visitorNames:{lname
|
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T? { return visitChildren(ctx) \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

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

```
Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<!//@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
<accessLevelOpenOK(parser)> class <parser.name>: <superClass; null="Parser"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <parser.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
         <!// decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!,
i);!>
          decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
         }
         return decisionToDFA
    }()

 internal static let _sharedContextCache = PredictionContextCache()

 <if(parser.tokens)>
 <accessLevelNotOpen(parser)>
 enum Tokens: Int {
  case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
 }
 <endif>

 <accessLevelNotOpen(parser)>
 <if(parser.rules)>
 static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
 <endif>

 <accessLevelNotOpen(parser)>
 static let ruleNames: [String] = [
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 ]

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

 override <accessLevelOpenOK(parser)>
 func getGrammarFileName() -> String { return "<parser.grammarFileName>" }

 override <accessLevelOpenOK(parser)>
 func getRuleNames() -> [String] { return <parser.name>.ruleNames
 }

 override <accessLevelOpenOK(parser)>
 func getSerializedATN() -> [Int] { return <parser.name>._serializedATN }

 override <accessLevelOpenOK(parser)>
```

```
 func getATN() -> ATN { return <parser.name>._ATN }

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

<if(sempredFuncs)>
 override <accessLevelOpenOK(parser)>
 func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int,  _ predIndex: Int)throws -> Bool {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case  <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
     default: return true
  }
  <!return true;!>
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>

 <accessLevelNotOpen(parser)>
 static let _ATN = try! ATNDeserializer().deserialize(_serializedATN)
}
>>

vocabulary(literalNames, symbolicNames, accessLevel) ::= <<
private static let _LITERAL_NAMES: [String?] = [
 <literalNames:{t | <t>}; null="nil", separator=", ", wrap,
 anchor>
]
private static let _SYMBOLIC_NAMES: [String?] = [
 <symbolicNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
<accessLevel>
static let VOCABULARY = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
override <accessLevelOpenOK(parser)>
func action(_ _localctx: RuleContext?,  _ ruleIndex: Int, _ actionIndex: Int) throws {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 try <f.name>_action((_localctx as <f.ctxType>?), actionIndex)
  }; separator="\n">
```

```
 default: break
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _  ruleIndex: Int,_   predIndex: Int) throws -> Bool {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
 default: return true
 }
 <!return
 true;!>
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<

override <accessLevelOpenOK(parser)>
func getVocabulary() -> Vocabulary {
   return <p.name>.VOCABULARY
}

override <accessLevelNotOpen(parser)>
init(_ input:TokenStream) throws {
   RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION)
 try super.init(input)
 _interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
<parser.name>._sharedContextCache)
}

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ _localctx: <r.ctxType>?,  _ actionIndex: Int) throws {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
  }; separator="\n">
```

```
 default: break
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_ _localctx: <r.ctxType>!,  _ predIndex: Int) throws -> Bool {
 switch (predIndex) {
 <actions:{index|
  case <index>:return <actions.(index)>}; separator="\n">
    default: return true
 }
 <!return true;!>
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelOpenOK(parser)> func
<endif><currentRule.escapedName>(<if(first(args))>_ <endif><args; separator=", _">) throws ->
<currentRule.ctxType> {
 var _localctx: <currentRule.ctxType>
 _localctx = <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | , <a.escapedName>}>)
 try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
 <namedActions.init>
 <locals; separator="\n">
 defer {

   <finallyAction>
    try! exitRule()
  }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt:Int
<endif>
  <code>
 <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
```

```
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }
 <endif>

 return _localctx
}
>>

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

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

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelNotOpen(parser)> final <endif>
func <currentRule.escapedName>( <if(first(args))>_ <endif><args; separator=", _">) throws ->
<currentRule.ctxType>   {
 return try <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>)
}
@discardableResult
private func <currentRule.escapedName>(_ _p<args:{a | , <a>}>:
 Int) throws -> <currentRule.ctxType>   {
 let _parentctx: ParserRuleContext? = _ctx
 let _parentState: Int = getState()
 var _localctx: <currentRule.ctxType>
 _localctx = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | , <a.escapedName>}>)
 var _prevctx: <currentRule.ctxType> = _localctx
 let _startState: Int = <currentRule.startState>
 try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
 <namedActions.init>
 <locals; separator="\n">
 defer {
    <finallyAction>
    try! unrollRecursionContexts(_parentctx)
  }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt: Int
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch ANTLRException.recognition(let re) {
```

```
 _localctx.exception = re
 _errHandler.reportError(self, re)
 try _errHandler.recover(self, re)
 }

 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx
 =  <currentOuterMostAltCodeBlock.altLabel; format="cap">Context(_localctx);<endif>
try 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>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(tokens=look)>
 <alt>
 break}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
 break}; separator="\n">
default:
 break
}
```

```
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>)
 try _errHandler.sync(self)
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 <iteration>
} while (<loopExpr>)
>>

// LL(*) stuff

AltBlock(choice,
 preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
<alts:{alt |
case <i>:
 <alt>
```

```
 break}; separator="\n">
default: break
}
>>

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

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

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

```
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
} while (_alt != <choice.exitAlt> && _alt !=  ATN.INVALID_ALT_NUMBER)
>>

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

ThrowNoViableAlt(t) ::= "throw ANTLRException.recognition(e: NoViableAltException(self))"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><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) ::= <<
(Int64(<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <<
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((Int64(1) \<\< <offsetShift(s.varName,
bits.shift)>) & <bits.calculated>) != 0)
>>

isZero ::= [
"0": true,
default: false
]
parserName(t) ::= <%
<parser.name>.Tokens.<t.name>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName> == <parser.name>.Tokens.<t.name>.rawValue}; separator=" || ">
%>

cases(tokens) ::= <<
<trunc(tokens): {t | case .<t.name>:fallthrough}  ; separator="\n">
<last(tokens): {t | case .<t.name>:}  ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
```

```
 let assignmentValue = try
<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)
 <r.labels:{l
| <labelref(l)> = assignmentValue} ; separator="\n">
  }()
<else>try
<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)<
endif>
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>)
<if(m.labels)>
try {
 let assignmentValue = try match(<parser.name>.Tokens.<m.escapedName>.rawValue)
 <m.labels:{l | <labelref(l)> = assignmentValue}  ; separator="\n">
  }()
<else>try match(<parser.name>.Tokens.<m.escapedName>.rawValue)<endif>
>>

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)> = }>try _input.LT(1)<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
 <if(m.labels)><m.labels:{l
| <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as Token<endif>
}
else {
 _errHandler.reportMatch(self)
 try consume()
}
>>

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

// ACTION STUFF

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

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

```
SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>)
if (!(<chunks>)) {
  throw ANTLRException.recognition(e:FailedPredicateException(self, <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)      ::= "_type = <arg>"
LexerChannelCommand(arg)   ::= "_channel = <arg>"
LexerModeCommand(arg)      ::= "_mode =
 <arg>"
LexerPushModeCommand(arg)  ::= "pushMode(<arg>)"

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

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

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\")"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>
 != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
```

```
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()!) : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\")"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\")"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\")"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

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

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

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

TokenDecl(t) ::= "<t.escapedName>: <SwiftTypeMap.(TokenLabelType())>!"
TokenTypeDecl(t) ::= "var <t.escapedName>: Int = 0"
TokenListDecl(t) ::= "<t.escapedName>: [Token] = [Token]()"
RuleContextDecl(r) ::= "<r.escapedName>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.escapedName>: [<rdecl.ctxName>] = [<rdecl.ctxName>]()"

ContextTokenGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>() -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.escapedName>.rawValue, 0)
 }
>>
ContextTokenListGetterDecl(t)
 ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>() -> [TerminalNode] {
  return getTokens(<parser.name>.Tokens.<t.escapedName>.rawValue)
 }
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>(_ i:Int) -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.escapedName>.rawValue, i)
 }
```

```
>>
ContextRuleGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>() -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, 0)
 }
>>
ContextRuleListGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>() -> [<r.ctxName>] {
  return getRuleContexts(<r.ctxName>.self)
 }
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>(_ i: Int) -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, 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> = try _input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = try _input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures,
        superClass={ParserRuleContext}) ::= <<

<accessLevelNotOpen(parser)> class <struct.escapedName>:
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | <accessLevelOpenOK(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <! <if(ctorAttrs)> <accessLevelNotOpen(parser)> init(_ parent: ParserRuleContext,_ invokingState: Int) {
super.init(parent, invokingState)  }<endif> !>
 <if(ctorAttrs)>
 <accessLevelNotOpen(parser)> convenience init(_ parent: ParserRuleContext?, _ invokingState:
```

```
 Int<ctorAttrs:{a | , _ <a>}>) {
  self.init(parent, invokingState)
  <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 <endif>

 override <accessLevelOpenOK(parser)>
 func getRuleIndex() -> Int {
  return <parser.name>.RULE_<struct.derivedFromName>
 }
<if(struct.provideCopyFrom && struct.attrs)> <! don't need copy unless we have subclasses !>
 <accessLevelOpenOK(parser)>
 override func copyFrom(_ ctx_: ParserRuleContext) {
  super.copyFrom(ctx_)
  let ctx = ctx_ as! <struct.escapedName>
  <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
<accessLevelNotOpen(parser)> class <struct.escapedName>: <currentRule.name; format="cap">Context {
 <attrs:{a | <accessLevelNotOpen(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">

 <accessLevelNotOpen(parser)>
 init(_
 ctx: <currentRule.name; format="cap">Context) {
  super.init()
  copyFrom(ctx)
 }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
 if let listener = listener as? <parser.grammarName>Listener {
  listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)
 }
}
>>

VisitorDispatchMethod(method) ::= <<
```

```
override <accessLevelOpenOK(parser)>
func accept\<T>(_ visitor: ParseTreeVisitor\<T>) -> T? {
 if let visitor = visitor as? <parser.grammarName>Visitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else if let visitor = visitor as? <parser.grammarName>BaseVisitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else {
     return visitor.visitChildren(self)
 }
}
>>

AttributeDecl(d) ::= "<d.escapedName>: <SwiftTypeMap.(d.type)><if(d.initValue)>
 = <d.initValue><else>!<endif>"

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

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

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

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.append(_prevctx)
<else>
_localctx.<label> = _prevctx
<endif>
<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel,
 label, isListLabel) ::= <<
_localctx = <currentAltLabel; format="cap">Context(  <ruleName; format="cap">Context(_parentctx,
_parentState))
<if(label)>
<if(isListLabel)>
(_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
<else>
```

```
(_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
<endif>
<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

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

recRuleSetPrevCtx() ::= <<
if _parseListeners != nil {
  try triggerExitRuleEvent()
}
_prevctx = _localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
<!package <lexerFile.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<lexer>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<accessLevelOpenOK(lexer)> class <lexer.name>:
 <superClass; null="Lexer"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <lexer.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
          <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i)!, i);!>
            decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i)!, i))
        }
         return decisionToDFA
    }()

 internal static let _sharedContextCache = PredictionContextCache()

 <accessLevelNotOpen(lexer)>
 <if(lexer.tokens)>
```

```
 static let <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>
 <endif>

 <if(lexer.escapedChannels)>
 <accessLevelNotOpen(lexer)>
 static let <lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>
 <endif>
 <if(rest(lexer.escapedModeNames))>
 <accessLevelNotOpen(lexer)>
 static let <rest(lexer.escapedModeNames):{m| <m>=<i>}; separator=", ", wrap, anchor>
 <endif>
 <accessLevelNotOpen(lexer)>
 static
 let channelNames: [String] = [
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
 ]

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

 <accessLevelNotOpen(lexer)>
 static let ruleNames: [String] = [
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 ]

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

 <namedActions.members>

 override <accessLevelOpenOK(lexer)>
 func getVocabulary() -> Vocabulary {
  return <lexer.name>.VOCABULARY
 }

 <accessLevelNotOpen(lexer)>
 required init(_ input: CharStream) {
    RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
  super.init(input)
  _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
<lexer.name>._sharedContextCache)
 }

 override <accessLevelOpenOK(lexer)>
 func
```

```
 getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

 override <accessLevelOpenOK(lexer)>
 func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

 override <accessLevelOpenOK(lexer)>
 func getSerializedATN() -> [Int] { return <lexer.name>._serializedATN }

 override <accessLevelOpenOK(lexer)>
 func getChannelNames() -> [String] { return <lexer.name>.channelNames }

 override <accessLevelOpenOK(lexer)>
 func getModeNames() -> [String] { return <lexer.name>.modeNames }

 override <accessLevelOpenOK(lexer)>
 func getATN() -> ATN { return <lexer.name>._ATN }

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

 <accessLevelNotOpen(lexer)>
 static let _ATN: ATN = try! ATNDeserializer().deserialize(_serializedATN)
}
>>

SerializedATN(model) ::= <<
static let _serializedATN:[Int] = [
 <model.serialized: {s | <s>}; separator=",", wrap>
]
>>

/** 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) ::= <<
<SwiftTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".swift"
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/TypeScript/TypeScript.stg
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```
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*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

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):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ActionSplitter.g
No license file was found, but licenses were detected in source scan.

```
/*
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*  modification, are permitted provided that the following conditions
```

```
*  are met:
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

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

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
using
 Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

<parser>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<file.parserName>"/>.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in
 \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Enter<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Exit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);};
separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseListenerFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace
 <file.genPackage> {
<endif>
<header>

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
///
 Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Enter<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { \}
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { \}}; separator="\n">
```

```
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public
 virtual void EnterEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete generic visitor for a parse tree produced
/// by \<see cref="<file.parserName>"/>.
///
 \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Visitor\<Result> : IParseTreeVisitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
```

```
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);};
separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}"/>,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor\<Result> : AbstractParseTreeVisitor\<Result>,
I<file.grammarName>Visitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
///
 labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>
/// The default implementation returns the result of calling \<see
cref="AbstractParseTreeVisitor{Result\}.VisitChildren(IRuleNode)"/>
/// on \<paramref name="context"/>.
/// \</para>
/// \</summary>
```

```
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
public virtual Result Visit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { return VisitChildren(context); \}}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//------------------------------------------------------------------------------
// \<auto-generated>
//     This code was generated by a tool.
//     ANTLR Version: <ANTLRVersion>
//
//     Changes to this file may
 cause incorrect behavior and will be lost if
//     the code is regenerated.
// \</auto-generated>
//------------------------------------------------------------------------------

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591
// Ambiguous reference in cref attribute
#pragma warning disable 419

>>

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <parser.name> : <superClass; null="Parser"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 <if(parser.tokens)>
 public
```

```
 const int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(parser.rules)>
 public const int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 <endif>
 public static readonly string[] ruleNames = {
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };

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

 public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }

 public override string[] RuleNames { get { return ruleNames; } }

 public override int[] SerializedAtn { get { return _serializedATN; } }

 static <parser.name>() {
  decisionToDFA = new DFA[_ATN.NumberOfDecisions];
  for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
   decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
  }
 }

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

<if(sempredFuncs)>
 public override bool 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 readonly string[] _LiteralNames = {
```

```
 <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
 <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

[NotNull]
public override IVocabulary Vocabulary
{
 get
 {
  return DefaultVocabulary;
 }
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
public override 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)>
public override bool 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(parser) ::= <<
 public <parser.name>(ITokenStream input) : this(input, Console.Out, Console.Error) { }

 public <parser.name>(ITokenStream input, TextWriter output, TextWriter errorOutput)
 : base(input, output, errorOutput)
{
```

```
 Interpreter = new ParserATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}
>>

/* 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 bool <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 <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType>
 _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | , <a.escapedName>}>);
 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;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.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 <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<a.escapedName>}>);
 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;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.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 <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context,
 State<currentRule.args:{a | , <a.escapedName>}>);
 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;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.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 <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 return <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>);
}

private <currentRule.ctxType>
 <currentRule.escapedName>(int _p<args:{a | , <a>}>) {
 ParserRuleContext _parentctx = Context;
 int _parentState = State;
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | ,
<a.escapedName>}>);
 <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;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.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) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts,
 preamble, error, followExpr) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
```

```
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 State = <choice.stateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble;
 separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
```

```
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>

PlusBlock(choice,
 alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.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>
 }
 State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.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.tokens)))><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.tokens contains more than two items
```

```
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
<bits.calculated>L) != 0)
%>

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

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

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<tokenType.(t.name)>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case <tokenType.(t.name)>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>

MatchToken(m) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>Match(<tokenType.(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) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>TokenStream.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
 ErrorHandler.ReportMatch(this);
```

```
  Consume();
}
>>

Wildcard(w) ::= <<
State = <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) ::= <<
State = <p.stateNumber>;
if (!(<chunks>)) throw new FailedPredicateException(this, <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 = <tokenType.(arg)>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <channelName.(arg)>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <modeName.(arg)>;"
LexerPushModeCommand(arg, grammar)  ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<tokenType.(t.escapedName)>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
```

```
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>;"

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

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):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?TokenStream.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)  ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<s.escapedName>%>
SetNonLocalAttr(s, rhsChunks)   ::=
 <%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<s.escapedName> =
<rhsChunks>;%>

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

TokenDecl(t) ::= "<TokenLabelType()> <tokenType.(t.escapedName)>"
TokenTypeDecl(t)
 ::= "int <tokenType.(t.escapedName)>;"
TokenListDecl(t) ::= "IList\<IToken> <tokenType.(t.escapedName)> = new List\<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.escapedName>"
RuleContextListDecl(rdecl) ::= "IList\<<rdecl.ctxName>> <rdecl.escapedName> = new List\<<rdecl.ctxName>>()"
```

```
contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t)      ::=
   "[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <tokenType.(t.name)>() { return
GetToken(<parser.name>.<tokenType.(t.name)>, 0); }"
ContextTokenListGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection("ITerminalNode")>
<tokenType.(t.name)>() { return GetTokens(<parser.name>.<tokenType.(t.name)>); }
>>
ContextTokenListIndexedGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <tokenType.(t.name)>(int i) {
 return GetToken(<parser.name>.<tokenType.(t.name)>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
[System.Diagnostics.DebuggerNonUserCode]
 public <r.ctxName> <r.escapedName>() {
 return GetRuleContext\<<r.ctxName>\>(0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection({<r.ctxName>})>
<r.escapedName>() {
 return GetRuleContexts\<<r.ctxName>\>();
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <r.escapedName>(int i) {
 return GetRuleContext\<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

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

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

```
StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures,
        superClass={ParserRuleContext}) ::= <<
public partial class <struct.escapedName> :
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.escapedName>(ParserRuleContext parent, int invokingState) : base(parent,
invokingState) { }<endif>
 public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>)
  : base(parent, invokingState)
 {
  <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.escapedName>() { }
 public virtual void CopyFrom(<struct.escapedName> context) {
  base.CopyFrom(context);
  <struct.attrs:{a
 | this.<a.escapedName> = context.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public partial class <struct.escapedName> : <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.escapedName>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
 I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
 if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
```

```
[System.Diagnostics.DebuggerNonUserCode]
public
 override TResult Accept\<TResult>(IParseTreeVisitor\<TResult> visitor) {
 I<parser.grammarName>Visitor\<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor\<TResult>;
 if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
 else return visitor.VisitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <d.escapedName><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.escapedName>"

/** 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(Context, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()                ::= "Context.Stop = TokenStream.LT(-1);"

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

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_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);
Context = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( ParseListeners!=null )
 TriggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <lexer.name> : <superClass; null="Lexer"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 <if(lexer.tokens)>
 public
 const int
  <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
```

```
<if(lexer.escapedChannels)>
public const int
 <lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(rest(lexer.escapedModeNames))>
public const int
 <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>
public static string[] channelNames = {
 "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
};

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

public static readonly string[] ruleNames = {
 <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};

<namedActions.members>

public <lexer.name>(ICharStream input)
: this(input, Console.Out, Console.Error) { }

public <lexer.name>(ICharStream input, TextWriter output, TextWriter errorOutput)
:
base(input, output, errorOutput)
{
 Interpreter = new LexerATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}

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

public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

public override string[] RuleNames { get { return ruleNames; } }

public override string[] ChannelNames { get { return channelNames; } }

public override string[] ModeNames { get { return modeNames; } }

public override int[] SerializedAtn { get { return _serializedATN; } }

static <lexer.name>() {
 decisionToDFA = new DFA[_ATN.NumberOfDecisions];
 for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
```

```
   decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
  }
 }
 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>
}
>>

SerializedATN(model) ::= <<
private static int[] _serializedATN = {
 <model.serialized: {s | <s>}; separator=",", wrap>
};

public static readonly ATN _ATN =
 new ATNDeserializer().Deserialize(_serializedATN);



>>

initValue(typeName)
 ::= <<
default(<typeName>)
>>

codeFileExtension() ::= ".cs"

modeName ::= [
 "DEFAULT_MODE" : "DefaultMode",
 default : key
]

channelName ::= [
 "HIDDEN" : "Hidden",
 "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
 default : key
]

tokenType ::= [
 "EOF" : "Eof",
 default : key
]
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
No license file was found, but licenses were detected in source scan.

```
/*
[The "BSD licence"]
```

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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/*
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):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.java

1.70 mapstruct-processor 1.2.0.Final

1.70.1 Available under license :

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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
<#--

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-->
private static LocalDateTime
 ${name}( XMLGregorianCalendar xcal ) {
  if ( xcal == null ) {
     return null;
  }

  if ( xcal.getYear() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getMonth() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getDay() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getHour() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getMinute() != DatatypeConstants.FIELD_UNDEFINED
     ) {
        if ( xcal.getSecond() != DatatypeConstants.FIELD_UNDEFINED
           && xcal.getMillisecond() != DatatypeConstants.FIELD_UNDEFINED ) {
           return new LocalDateTime( xcal.getYear(),
              xcal.getMonth(),
              xcal.getDay(),
              xcal.getHour(),
              xcal.getMinute(),
              xcal.getSecond(),
              xcal.getMillisecond()
           );
        }
        else if ( xcal.getSecond() != DatatypeConstants.FIELD_UNDEFINED ) {
           return new
 LocalDateTime( xcal.getYear(),
              xcal.getMonth(),
              xcal.getDay(),
              xcal.getHour(),
              xcal.getMinute(),
              xcal.getSecond()
           );
        }
        else {
           return new LocalDateTime( xcal.getYear(),
              xcal.getMonth(),
              xcal.getDay(),
              xcal.getHour(),
              xcal.getMinute()
        );
        }
     }
```

```
  return null;
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToJodaLocalDateTime.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
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-->
private static LocalDate ${name}(
 XMLGregorianCalendar xcal ) {
  if ( xcal == null ) {
     return null;
  }

  if ( xcal.getYear() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getMonth() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getDay() != DatatypeConstants.FIELD_UNDEFINED )  {
        return new LocalDate( xcal.getYear(), xcal.getMonth(), xcal.getDay() );
  }

  return null;
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToJodaLocalDate.ftl

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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.assignment.SetterWrapper" -->
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-->
<#import "../macro/CommonMacros.ftl"
 as lib>
<@lib.handleExceptions>
  <@lib.sourceLocalVarAssignment/>
  <@lib.handleSourceReferenceNullCheck>
${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><@lib.handleAssignment/></@lib.handleWrite>;
  </@lib.handleSourceReferenceNullCheck>
</@lib.handleExceptions>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/SetterWrapper.ftl
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<#-- @ftlvariable name=""
type="org.mapstruct.ap.internal.model.assignment.GetterWrapperForCollectionsAndMaps" -->
<#--

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-->
<#import
 "../macro/CommonMacros.ftl" as lib>
<@lib.sourceLocalVarAssignment/>
if ( ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWriteAccesing /> != null ) {
  <@lib.handleExceptions>
    <#if ext.existingInstanceMapping>
      ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWriteAccesing />.clear();
    </#if>
    <@lib.handleLocalVarNullCheck needs_explicit_local_var=false>
      ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWriteAccesing />.<#if
ext.targetType.collectionType>addAll<#else>putAll</#if>( <@lib.handleWithAssignmentOrNullCheckVar/> );
    </@lib.handleLocalVarNullCheck>
  </@lib.handleExceptions>
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/assignment/GetterWrapperForCollectionsAndMaps.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.assignment.LocalVarWrapper" -->
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-->
<#if (thrownTypes?size
 == 0) >
  <#if !ext.isTargetDefined?? ><@includeModel object=ext.targetType/></#if> ${ext.targetWriteAccessorName} =
<@_assignment/>;
<#else>
  <#if !ext.isTargetDefined?? ><@includeModel object=ext.targetType/> ${ext.targetWriteAccessorName};</#if>
  try {
     ${ext.targetWriteAccessorName} = <@_assignment/>;
  }
  <#list thrownTypes as exceptionType>
  catch ( <@includeModel object=exceptionType/> e ) {
    throw new RuntimeException( e );
  }
  </#list>
</#if>
<#macro _assignment>
  <@includeModel object=assignment
          targetBeanName=ext.targetBeanName
          existingInstanceMapping=ext.existingInstanceMapping
          targetReadAccessorName=ext.targetReadAccessorName
          targetWriteAccessorName=ext.targetWriteAccessorName
          targetType=ext.targetType/>
</#macro>

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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/LocalVarWrapper.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
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-->
private XMLGregorianCalendar
 ${name}( String date, String dateFormat ) {
  if ( date == null ) {
     return null;
  }

  try {
     if ( dateFormat != null ) {
        DateFormat df = new SimpleDateFormat( dateFormat );
        GregorianCalendar c = new GregorianCalendar();
        c.setTime( df.parse( date ) );
        return DatatypeFactory.newInstance().newXMLGregorianCalendar( c );
     }
     else {
        return DatatypeFactory.newInstance().newXMLGregorianCalendar( date );
     }
  }
  catch ( DatatypeConfigurationException ex ) {
     throw new RuntimeException( ex );
  }
  catch ( ParseException ex ) {
     throw new RuntimeException( ex );
  }
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/StringToXmlGregorianCalendar.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.common.SourceRHS" -->
<#--

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-->
<#if sourceLocalVarName??>${sourceLocalVarName}<#else>${sourceReference}</#if>

Found
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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/SourceRHS.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.StreamMappingMethod" -->
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-->
<#if overridden>@Override</#if>
<#lt>${accessibility.keyword}
 <@includeModel object=returnType/> ${name}(<#list parameters as param><@includeModel object=param/><#if
param_has_next>, </#if></#list>)<@throws/> {
  <#--TODO does it even make sense to do a callback if the result is a Stream, as they are immutable-->
  <#list beforeMappingReferencesWithoutMappingTarget as callback>
   <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
   <#if !callback_has_next>

   </#if>
  </#list>
  if ( ${sourceParameter.name} == null ) {
```

```
    <#if !mapNullToDefault>
      <#-- returned target type starts to miss-align here with target handed via param, TODO is this right? -->
      return<#if returnType.name != "void"> null</#if>;
    <#else>
      <#if resultType.arrayType>
        <#if existingInstanceMapping>
          <#-- we can't clear an existing array, so we've got to clear by setting values to default -->
          for (int
${index2Name} = 0; ${index2Name} < ${resultName}.length; ${index2Name}++ ) {
            ${resultName}[${index2Name}] = ${resultElementType.null};
          }
          return<#if returnType.name != "void"> ${resultName}</#if>;
        <#else>
          return new <@includeModel object=resultElementType/>[0];
        </#if>
      <#elseif resultType.iterableType>
        <#if existingInstanceMapping>
          ${resultName}.clear();
          return<#if returnType.name != "void"> ${resultName}</#if>;
        <#else>
          return <@includeModel object=iterableCreation useSizeIfPossible=false/>;
        </#if>
      <#else>
        <#if existingInstanceMapping>
          <#-- We cannot update an existing stream so we just return the old one -->
          return<#if returnType.name != "void"> ${resultName}</#if>;
        <#else>
           return Stream.empty();
        </#if>
      </#if>
    </#if>
  }

  <#-- A variable needs to be defined if there are before mappings and this is not exisitingInstanceMapping -->
  <#assign needVarDefine = beforeMappingReferencesWithMappingTarget?has_content &&
!existingInstanceMapping />

  <#if resultType.arrayType>
    <#if !existingInstanceMapping && needVarDefine>
      <#assign needVarDefine = false />
      <#-- We create a null array which later will be directly assigned from the stream-->
      ${resultElementType}[] ${resultName} = null;
    </#if>
  <#elseif resultType.iterableType>
    <#if existingInstanceMapping>
      ${resultName}.clear();
    <#elseif needVarDefine>
      <#assign needVarDefine = false />
```

```
        <#-- Use the interface type on the left side, except it is java.lang.Iterable; use the implementation type - if present - on the right side -->
        <@iterableLocalVarDef/>
 ${resultName} = <@includeModel object=iterableCreation useSizeIfPossible=true/>;
      </#if>
    <#else>
      <#-- Streams are immutable so we can't update them -->
      <#if !existingInstanceMapping && needVarDefine>
        <#assign needVarDefine = false />
        <@iterableLocalVarDef/> ${resultName} = Stream.empty();
      </#if>
    </#if>

    <#list beforeMappingReferencesWithMappingTarget as callback>
      <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
      <#if !callback_has_next>

      </#if>
    </#list>

    <#-- If there are no after mappings, no variable was created before i.e. no before mappings
      and this is not an existingInstanceMapping then we can return immediatelly -->
    <#assign canReturnImmediatelly = !afterMappingReferences?has_content && !needVarDefine && !existingInstanceMapping/>

    <#if resultType.arrayType>
      <#if existingInstanceMapping>
      int ${index1Name}
 = 0;
      for ( <@includeModel object=resultElementType/> ${loopVariableName} : ${sourceParameter.name}.limit( ${resultName}.length )<@streamMapSupplier />.toArray( ${resultElementType}[]::new ) ) {
        if ( ( ${index1Name} >= ${resultName}.length ) ) {
          break;
        }
        ${resultName}[${index1Name}++] = ${loopVariableName};
      }
      <#else>
        <#if canReturnImmediatelly><#if returnType.name != "void">return </#if><#else> <#if needVarDefine>${resultElementType}[] <#else>${resultName} = </#if></#if>${sourceParameter.name}<@streamMapSupplier />
                .toArray( <@includeModel object=resultElementType/>[]::new );
      </#if>
    <#elseif resultType.iterableType>
      <#if existingInstanceMapping || !canReturnImmediatelly>
        ${resultName}.addAll( ${sourceParameter.name}<@streamMapSupplier />
                    .collect( Collectors.toCollection( <@iterableCollectionSupplier />
 ) )
                );
```

```
      <#else>
        <@returnLocalVarDefOrUpdate>
          <#lt>${sourceParameter.name}<@streamMapSupplier />
            .collect( Collectors.toCollection( <@iterableCollectionSupplier /> ) );
        </@returnLocalVarDefOrUpdate>

      </#if>
    <#else>
      <#-- Streams are immutable so we can't update them -->
      <#if !existingInstanceMapping>
        <#--TODO fhr: after the the result is no longer the same instance, how does it affect the
          Before mapping methods. Does it even make sense to have before mapping on a stream? -->
        <#if sourceParameter.type.arrayType>
          <@returnLocalVarDefOrUpdate>Stream.of( ${sourceParameter.name} )<@streamMapSupplier
/>;</@returnLocalVarDefOrUpdate>
        <#elseif sourceParameter.type.collectionType>
          <@returnLocalVarDefOrUpdate>${sourceParameter.name}.stream()<@streamMapSupplier
/>;</@returnLocalVarDefOrUpdate>
         <#elseif sourceParameter.type.iterableType>
          <@returnLocalVarDefOrUpdate>StreamSupport.stream( ${sourceParameter.name}.spliterator(), false
)<@streamMapSupplier />;</@returnLocalVarDefOrUpdate>
        <#else>
          <@returnLocalVarDefOrUpdate>${sourceParameter.name}<@streamMapSupplier
/>;</@returnLocalVarDefOrUpdate>
        </#if>
      </#if>

    </#if>

    <#list afterMappingReferences as callback>
     <#if callback_index = 0>

     </#if>
     <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
    </#list>

    <#if !canReturnImmediatelly && returnType.name != "void">
      return ${resultName};
    </#if>
  }
  <#macro throws>
    <#if (thrownTypes?size > 0)><#lt> throws </#if><@compress single_line=true>
      <#list thrownTypes as exceptionType>
        <@includeModel object=exceptionType/>
        <#if exceptionType_has_next>, </#if><#t>
      </#list>
    </@compress>
  </#macro>
```

```
<#macro
 iterableSize>
  <@compress single_line=true>
    <#if sourceParameter.type.arrayType>
      ${sourceParameter.name}.length
    <#else>
      ${sourceParameter.name}.size()
    </#if>
  </@compress>
</#macro>
<#macro iterableLocalVarDef>
  <@compress single_line=true>
    <#if resultType.fullyQualifiedName == "java.lang.Iterable">
      <@includeModel object=resultType.implementationType/>
    <#else>
      <@includeModel object=resultType/>
    </#if>
  </@compress>
</#macro>
<#macro iterableCollectionSupplier>
  <@compress single_line=true>
    <#if resultType.implementationType??>
      <@includeModel object=resultType.implementationType/>
    <#else>
      <@includeModel object=resultType/></#if>::new
  </@compress>
</#macro>
<#macro streamMapSupplier>
  <@compress>
    <#if !elementAssignment.directAssignment?? || !elementAssignment.directAssignment>
      .map( <@includeModel object=elementAssignment
 targetBeanName=resultName targetType=resultElementType/> )
    </#if>
  </@compress>
</#macro>
<#macro returnLocalVarDefOrUpdate>
  <#if canReturnImmediatelly><#if returnType.name != "void">return </#if><#elseif
!needVarDefine><@iterableLocalVarDef/> ${resultName} = <#else>${resultName} = </#if><#nested />
</#macro>
```

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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.DefaultMapperReference" -->
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-->
private final <@includeModel
 object=type/> ${variableName} = <#if annotatedMapper>Mappers.getMapper( <@includeModel
object=type/>.class );<#else>new <@includeModel object=type/>();</#if>

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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/DefaultMapperReference.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.DecoratorConstructor" -->
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-->
public ${name}() {
  this(
```

```
 new ${delegateName}() );
}

private ${name}(${delegateName} delegate) {
  <#if invokeSuperConstructor>
  super( delegate );
  </#if>
  this.delegate = delegate;
}
```

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```
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-->
private static XMLGregorianCalendar
 ${name}( java.time.LocalDate localDate ) {
  if ( localDate == null ) {
     return null;
  }

  try {
     return DatatypeFactory.newInstance().newXMLGregorianCalendarDate(
        localDate.getYear(),
        localDate.getMonthValue(),
        localDate.getDayOfMonth(),
        DatatypeConstants.FIELD_UNDEFINED
     );
```

```
  }
  catch ( DatatypeConfigurationException ex ) {
     throw new RuntimeException( ex );
  }
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/LocalDateToXmlGregorianCalendar.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.BeanMappingMethod" -->
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-->
<#if overridden>@Override</#if>
<#lt>${accessibility.keyword}
 <@includeModel object=returnType/> ${name}(<#list parameters as param><@includeModel object=param/><#if param_has_next>, </#if></#list>)<@throws/> {
   <#list beforeMappingReferencesWithoutMappingTarget as callback>
    <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
    <#if !callback_has_next>

    </#if>
   </#list>
   <#if !mapNullToDefault>
   if ( <#list sourceParametersExcludingPrimitives as sourceParam>${sourceParam.name} == null<#if sourceParam_has_next> && </#if></#list> ) {
       return<#if returnType.name != "void"> null</#if>;
   }
   </#if>
```

```
  <#if !existingInstanceMapping>
    <@includeModel object=resultType/> ${resultName} = <#if factoryMethod??><@includeModel
object=factoryMethod targetType=resultType/><#else>new <@includeModel object=resultType/>()</#if>;

  </#if>
  <#list beforeMappingReferencesWithMappingTarget as callback>
   <@includeModel object=callback targetBeanName=resultName
 targetType=resultType/>
   <#if !callback_has_next>

   </#if>
  </#list>
  <#if (sourceParameters?size > 1)>
    <#list sourceParametersExcludingPrimitives as sourceParam>
      <#if (propertyMappingsByParameter(sourceParam)?size > 0)>
        if ( ${sourceParam.name} != null ) {
          <#list propertyMappingsByParameter(sourceParam) as propertyMapping>
            <@includeModel object=propertyMapping targetBeanName=resultName
existingInstanceMapping=existingInstanceMapping
defaultValueAssignment=propertyMapping.defaultValueAssignment/>
          </#list>
        }
      </#if>
    </#list>
    <#list sourcePrimitiveParameters as sourceParam>
      <#if (propertyMappingsByParameter(sourceParam)?size > 0)>
        <#list propertyMappingsByParameter(sourceParam) as propertyMapping>
          <@includeModel object=propertyMapping targetBeanName=resultName
existingInstanceMapping=existingInstanceMapping
 defaultValueAssignment=propertyMapping.defaultValueAssignment/>
        </#list>
      </#if>
    </#list>
  <#else>
    <#if mapNullToDefault>if ( ${sourceParameters[0].name} != null ) {</#if>
    <#list propertyMappingsByParameter(sourceParameters[0]) as propertyMapping>
      <@includeModel object=propertyMapping targetBeanName=resultName
existingInstanceMapping=existingInstanceMapping
defaultValueAssignment=propertyMapping.defaultValueAssignment/>
    </#list>
    <#if mapNullToDefault>}</#if>
  </#if>
  <#list constantMappings as constantMapping>
     <@includeModel object=constantMapping targetBeanName=resultName
existingInstanceMapping=existingInstanceMapping/>
  </#list>
  <#list afterMappingReferences as callback>
```

```
    <#if callback_index = 0>

    </#if>
    <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
   </#list>
   <#if returnType.name != "void">

   return
 ${resultName};
   </#if>
}
<#macro throws>
   <#if (thrownTypes?size > 0)><#lt> throws </#if><@compress single_line=true>
      <#list thrownTypes as exceptionType>
         <@includeModel object=exceptionType/>
         <#if exceptionType_has_next>, </#if><#t>
      </#list>
   </@compress>
</#macro>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/BeanMappingMethod.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.common.Parameter" -->
<#--

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-->
<@includeModel object=type/> ${name}

Found
```

in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/Parameter.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.DelegatingMethod" -->
<#--

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-->
@Override
public <@includeModel
 object=returnType/> ${name}(<#list parameters as param><@includeModel object=param/><#if
param_has_next>, </#if></#list>) <@throws/> {
  <#if returnType.name != "void">return </#if>delegate.${name}( <#list parameters as param>${param.name}<#if
param_has_next>, </#if></#list> );
}
<#macro throws>
  <@compress single_line=true>
    <#if (thrownTypes?size > 0)>throws </#if>
    <#list thrownTypes as exceptionType>
      <@includeModel object=exceptionType/>
      <#if exceptionType_has_next>, </#if><#t>
    </#list>
  </@compress>
</#macro>
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/DelegatingMethod.ftl
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```
<#-- @ftlvariable name=""
type="org.mapstruct.ap.internal.model.assignment.SetterWrapperForCollectionsAndMapsWithNullCheck" -->
```

```
<#--

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-->
<#import
 "../macro/CommonMacros.ftl" as lib>
<@lib.sourceLocalVarAssignment/>
<@lib.handleExceptions>
 <@callTargetWriteAccessor/>
 <#if !ext.defaultValueAssignment??>else {<#-- the opposite (defaultValueAssignment) case is handeld inside
lib.handleLocalVarNullCheck -->
   ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><#if
mapNullToDefault><@lib.initTargetObject/><#else>null</#if></@lib.handleWrite>;
 }
 </#if>
</@lib.handleExceptions>
<#--
 assigns the target via the regular target write accessor (usually the setter)
-->
<#macro callTargetWriteAccessor>
 <@lib.handleLocalVarNullCheck needs_explicit_local_var=directAssignment>
   ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><#if
directAssignment><@wrapLocalVarInCollectionInitializer/><#else><@lib.handleWithAssignmentOrNullCheckVa
r/></#if></@lib.handleWrite>;
 </@lib.handleLocalVarNullCheck>
</#macro>
<#--
 wraps the local variable in a collection initializer (new collection,
 or EnumSet.copyOf)
-->
<#macro wrapLocalVarInCollectionInitializer><@compress single_line=true>
   <#if enumSet>
```

```
    EnumSet.copyOf( ${nullCheckLocalVarName} )
  <#else>
    new <#if ext.targetType.implementationType??><@includeModel
object=ext.targetType.implementationType/><#else><@includeModel object=ext.targetType/></#if>(
${nullCheckLocalVarName} )
  </#if>
</@compress></#macro>
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/SetterWrapperForCollectionsAndMapsWithNullCheck.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
<#--

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-->
private DecimalFormat ${name}(
 String numberFormat ) {

  DecimalFormat df = new DecimalFormat( numberFormat );
  df.setParseBigDecimal( true );
  return df;
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/CreateDecimalFormat.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
<#--
```

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-->
private Calendar ${name}(ZonedDateTime
 dateTime) {
  if ( dateTime == null ) {
    return null;
  }

  Calendar instance = Calendar.getInstance( TimeZone.getTimeZone( dateTime.getZone() ) );
  instance.setTimeInMillis( dateTime.toInstant().toEpochMilli() );
  return instance;
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/ZonedDateTimeToCalendar.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
<#--

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-->
private XMLGregorianCalendar
 ${name}( Calendar cal ) {
  if ( cal == null ) {
     return null;
  }

  try {
     GregorianCalendar gcal = new GregorianCalendar();
     gcal.setTimeInMillis( cal.getTimeInMillis() );
     return DatatypeFactory.newInstance().newXMLGregorianCalendar( gcal );
  }
  catch ( DatatypeConfigurationException ex ) {
     throw new RuntimeException( ex );
  }
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/CalendarToXmlGregorianCalendar.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.IterableCreation" -->
<#--

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```

```
-->
<@compress single_line=true>
    <#if factoryMethod??>
        <@includeModel object=factoryMethod targetType=resultType/>
    <#else>
    new
        <#if resultType.implementationType??>
            <@includeModel object=resultType.implementationType/><#if ext.useSizeIfPossible?? &&
ext.useSizeIfPossible && canUseSize>( <@sizeForCreation /> )<#else>()</#if>
        <#else>
            <@includeModel object=resultType/>()</#if>
        </#if>
</@compress>
<#macro sizeForCreation>
    <@compress single_line=true>
        <#if loadFactorAdjustment>
            Math.max( (int) ( <@iterableSize/> / .75f ) + 1, 16 )
        <#else>
            <@iterableSize/>
        </#if>
    </@compress>
</#macro>
<#macro iterableSize>
    <@compress single_line=true>
        <#if sourceParameter.type.arrayType>
            ${sourceParameter.name}.length
        <#else>
            ${sourceParameter.name}.size()
        </#if>
    </@compress>
</#macro>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/IterableCreation.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.assignment.AdderWrapper" -->
<#--

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-->
<#import "../macro/CommonMacros.ftl"
 as lib>
<@lib.handleExceptions>
 if ( ${sourceReference} != null ) {
    for ( <@includeModel object=sourceType.typeParameters[0].typeBound/> ${sourceLocalVarName} :
${sourceReference} ) {
${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><@lib.handleAssignment/></@lib.h
andleWrite>;
    }
 }
</@lib.handleExceptions>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/AdderWrapper.ftl
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*/

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/CalendarToXmlGregorianCalendar.java
```

*
/mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/selector/MethodFamilySelector.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/spi/package-info.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/ConversionProvider.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/DateToSqlTimestampConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/writer/IndentationCorrectingWriter.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/option/package-info.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/ForgedMethodHistory.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/EnumMappingMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/Strings.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/MappingOptions.java
*
/mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/processor/DefaultModelElementProcessorContext.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/JavaLocalDateTimeToDateConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/IterableCreation.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/MappingBuilderContext.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/processor/MapperServiceProcessor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/ReverseConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/common/DefaultConversionContext.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/CalendarToZonedDateTime.java
*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/Extractor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/JaxbConstants.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/assignment/ArrayCopyWrapper.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/AbstractNumberToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/DateToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/Mapping.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/processor/AnnotationBasedComponentModelProcessor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/MappingMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/processor/creation/MappingResolverImpl.java
*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/BeanMappingMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/prism/ReportingPolicyPrism.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/assignment/Java8FunctionWrapper.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/dependency/Node.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/EnumMapping.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/version/VersionInformation.java

* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/prism/MappingInheritanceStrategyPrism.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/ExistingInstanceSetterWrapperForCollectionsAndMaps.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/spi/DefaultAccessorNamingStrategy.java
*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/Collections.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/spi/AccessorNamingStrategy.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/TargetReference.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/package-info.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/CharToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/JavaLocalDateToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/ParameterBinding.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/MappingProcessor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/package-info.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/DateFormatValidatorFactory.java
*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/Filters.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/GetterWrapperForCollectionsAndMaps.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/SetterWrapperForCollectionsAndMaps.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/selector/MethodSelectors.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/WrapperForCollectionsAndMaps.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/BigIntegerToPrimitiveConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/TypeHierarchyErroneousException.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/NestedPropertyMappingMethod.java
*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/PrimitiveToPrimitiveConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToJodaLocalDate.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/PrimitiveToWrapperConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/LocalDateToXmlGregorianCalendar.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/Accessibility.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToString.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/JodaDateTimeToCalendarConversion.java

* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/CharWrapperToStringConversion.java
*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/DateToXmlGregorianCalendar.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/ImplementationType.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/selector/XmlElementDeclSelector.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/package-info.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/AnnotationProcessorContext.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/workarounds/EclipseAsMemberOfWorkaround.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/Conversions.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/DefaultMappingExclusionProvider.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/DecoratorConstructor.java
*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/prism/NullValueMappingStrategyPrism.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/SetterWrapper.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/JodaLocalDateToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/JodaLocalDateTimeToXmlGregorianCalendar.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/processor/creation/package-info.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/JodaLocalTimeToXmlGregorianCalendar.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/UpdateWrapper.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/NativeTypes.java
*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/processor/package-info.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/processor/Jsr330ComponentProcessor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/AbstractMappingMethodBuilder.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/JavaTimeConstants.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/accessor/ExecutableElementAccessor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/XmlConstants.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/DefaultMapperReference.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/processor/MapperRenderingProcessor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/processor/DefaultVersionInformation.java
*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/selector/TypeSelector.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/Constructor.java

* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/BigDecimalToBigIntegerConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/VirtualMappingMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/processor/SpringComponentProcessor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/BigDecimalToWrapperConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/ForgedMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/Message.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/writer/FreeMarkerModelElementWriter.java
*
 /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/ValueMappingMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/Assignment.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/JodaLocalDateToXmlGregorianCalendar.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/SourceReference.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/PropertyEntry.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/PropertyMapping.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/Method.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/MethodReference.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/selector/CreateOrUpdateSelector.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/processor/CdiComponentProcessor.java
*
 /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/BuiltInMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/RoundContext.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/HelperMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/ContainerMappingMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/LocalVarWrapper.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToCalendar.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/ParameterProvidedMethods.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/EnumStringConversion.java
*
 /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/DateToSqlDateConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/EnumConstantWrapper.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/Field.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/writer/package-info.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/accessor/VariableElementAccessor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/package-info.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/spi/AstModifyingAnnotationProcessor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/AbstractJavaTimeToStringConversion.java

* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/ClassUtils.java
* /mapstruct-processor-1-2-0-final-sources-3-
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*
/mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/selector/TargetTypeSelector.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/util/workarounds/EclipseClassLoaderBridge.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/NormalTypeMappingMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/JavaLocalTimeToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/StreamMappingMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToJodaLocalTime.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/TypeFactory.java
* /mapstruct-processor-1-2-0-final-sources-3-
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*
/mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/selector/FactoryParameterSelector.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/ValueMapping.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/Nouns.java
* /mapstruct-processor-1-2-0-final-sources-3-
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* /mapstruct-processor-1-2-0-final-sources-3-
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* /mapstruct-processor-1-2-0-final-sources-3-
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* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToJodaDateTime.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/prism/package-info.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/selector/package-info.java
*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/accessor/Accessor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/AnnotationMapperReference.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/package-info.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/BigIntegerToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/SourceRHS.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/writer/FreeMarkerWritable.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/spi/MethodType.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToDate.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/SelectionParameters.java
*
/mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/JodaTimeToDateConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/version/package-info.java

* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/BuiltInMappingMethods.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/BigIntegerToWrapperConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/Type.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/processor/ModelElementProcessor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/AdderWrapper.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/SourceMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/selector/QualifierSelector.java
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 /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/DelegatingMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/LifecycleCallbackFactory.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/processor/MethodRetrievalProcessor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/MapperReference.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/NestedTargetPropertyMappingHolder.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/WrapperToWrapperConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/option/Options.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/workarounds/TypesDecorator.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/package-info.java
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 /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/selector/MethodSelector.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/Parameter.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/selector/InheritanceSelector.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/workarounds/SpecificCompilerWorkarounds.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/JodaDateTimeToXmlGregorianCalendar.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/JavaLocalDateTimeToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/CreateDecimalFormat.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/package-info.java
*
 /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/spi/MappingExclusionProvider.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToJodaLocalDateTime.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/MappingMethodUtils.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/IterableMappingMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/ConversionContext.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/AbstractJodaTypeToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/ContainerMappingMethodBuilder.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/TypeConversion.java

* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/BeanMapping.java
*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/prism/PrismGenerator.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/MapperConfiguration.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/JavaZonedDateTimeToDateConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/writer/ModelIncludeDirective.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/writer/Writable.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/JavaZonedDateTimeToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/selector/SelectionCriteria.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/Mapper.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/prism/CollectionMappingStrategyPrism.java
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/mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/PrimitiveToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/common/DateFormatValidator.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/Executables.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/IterableMapping.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/MapMappingMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/AnnotationProcessingException.java
* /mapstruct-processor-1-2-0-final-sources-3-
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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/dependency/GraphAnalyzer.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/ServicesEntry.java
*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/Services.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/JodaLocalTimeToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/MapMapping.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/common/DateFormatValidationResult.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/WrapperToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/AbstractBaseBuilder.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/common/FormattingParameters.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/MethodMatcher.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/GeneratedType.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/ValueProvider.java
*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/writer/ModelWriter.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/SimpleConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/processor/MapperCreationProcessor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/package-info.java

* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/JavaStreamConstants.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/accessor/AbstractAccessor.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/assignment/SetterWrapperForCollectionsAndMapsWithNullCheck.java
* /mapstruct-processor-1-2-0-final-sources-3-
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*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/FormattingMessager.java
* /mapstruct-processor-1-2-0-final-sources-3-
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* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/LifecycleCallbackMethodReference.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/Annotation.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/selector/SelectedMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-
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* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/JaxbElemToValue.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/prism/MappingConstantsPrism.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/JodaTimeConstants.java
*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/ModelElement.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/CollectionAssignmentBuilder.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/JodaDateTimeToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/assignment/AssignmentWrapper.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/Decorator.java
No license file was found, but licenses were detected in source scan.

<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
<#--

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```
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-->
private static java.time.LocalDate
 ${name}( XMLGregorianCalendar xcal ) {
  if ( xcal == null ) {
     return null;
  }

  return java.time.LocalDate.of( xcal.getYear(), xcal.getMonth(), xcal.getDay() );
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToLocalDate.ftl
No license file was found, but licenses were detected in source scan.

<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.assignment.Java8FunctionWrapper" -->
<#--

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-->
<#assign sourceVarName><#if
 assignment.sourceLocalVarName??
>${assignment.sourceLocalVarName}<#else>${assignment.sourceReference}</#if></#assign>
<#if (thrownTypes?size == 0) >
  <#compress>
     <#if directAssignment>
     Function.identity()
     <#else>
     ${sourceVarName} -> <@_assignment/></#if>
```

```
  </#compress>
<#else>
  <#compress>
    ${sourceVarName} -> {
      try {
        return <@_assignment/>;
      }
      <#list thrownTypes as exceptionType>
      catch ( <@includeModel object=exceptionType/> e ) {
        throw new RuntimeException( e );
      }
      </#list>
    }
  </#compress>
</#if>
<#macro _assignment>
  <@includeModel object=assignment
  targetBeanName=ext.targetBeanName
  existingInstanceMapping=ext.existingInstanceMapping
  targetReadAccessorName=ext.targetReadAccessorName
  targetWriteAccessorName=ext.targetWriteAccessorName
  targetType=ext.targetType/>
</#macro>

Found in path(s):
*
 /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/assignment/Java8FunctionWrapper.ftl
No license file was found, but licenses were detected in source scan.

<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
<#--

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```

```
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-->
private XMLGregorianCalendar
 ${name}( LocalTime dt ) {
  if ( dt == null ) {
     return null;
  }

  try {
     return DatatypeFactory.newInstance().newXMLGregorianCalendarTime(
        dt.getHourOfDay(),
        dt.getMinuteOfHour(),
        dt.getSecondOfMinute(),
        dt.getMillisOfSecond(),
        DatatypeConstants.FIELD_UNDEFINED );
  }
  catch ( DatatypeConfigurationException ex ) {
     throw new RuntimeException( ex );
  }
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/JodaLocalTimeToXmlGregorianCalendar.ftl
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-->
<#--
```

```
 macro: handleSourceReferenceNullCheck

 purpose: macro surrounds nested with either a source presence checker
 or a null check. It acts directly on the
        source reference. It adds an else clause with the default assigment when applicable.

        requires: caller to implement boolean:getIncludeSourceNullCheck()
-->
<#macro handleSourceReferenceNullCheck>
  <#if sourcePresenceCheckerReference??>
     if ( ${sourcePresenceCheckerReference} ) {
        <#nested>
     }
     <@elseDefaultAssignment/>
  <#elseif includeSourceNullCheck || ext.defaultValueAssignment??>
     if ( <#if sourceLocalVarName??>${sourceLocalVarName}<#else>${sourceReference}</#if> != null ) {
        <#nested>
     }
     <@elseDefaultAssignment/>
  <#else>
     <#nested>
  </#if>
</#macro>
<#--
  local macro related to handleSourceReferenceNullCheck
-->
<#macro elseDefaultAssignment>
  <#if ext.defaultValueAssignment?? >
    else {
      <@handeDefaultAssigment/>
    }
  </#if>
</#macro>
<#--
 macro: handleLocalVarNullCheck

 purpose: macro surrounds nested with
 either a source presence checker or a null check. It always uses
        a local variable. Note that the local variable assignemnt is inside the IF statement for the
        source presence check. Note also, that the else clause contains the default variable assignment if
        present.

        requires: caller to implement String:getNullCheckLocalVarName()
                caller to implement Type:getNullCheckLocalVarType()
-->
<#macro handleLocalVarNullCheck needs_explicit_local_var>
 <#if sourcePresenceCheckerReference??>
  if ( ${sourcePresenceCheckerReference} ) {
```

```
    <#if needs_explicit_local_var>
      <@includeModel object=nullCheckLocalVarType/> ${nullCheckLocalVarName} =
<@lib.handleAssignment/>;
      <#nested>
    <#else>
      <#nested>
    </#if>
  }
 <#else>
  <@includeModel object=nullCheckLocalVarType/> ${nullCheckLocalVarName} = <@lib.handleAssignment/>;
  if ( ${nullCheckLocalVarName} != null ) {
    <#nested>
  }
 </#if>
  <#if ext.defaultValueAssignment?? >
 else {
  <@handeDefaultAssigment/>
 }
 </#if>
</#macro>
<#--
  Gives the value that needs to be assigned. If there is a sourcePresenceCheckerReference then a direct
  lib.handleAssignment is done, otherwise nullCheckLocalVarName is used.

  requires:       caller to implement String:getNullCheckLocalVarName()
-->
<#macro handleWithAssignmentOrNullCheckVar><#if
sourcePresenceCheckerReference??><@lib.handleAssignment/><#else>${nullCheckLocalVarName}</#if></#mac
ro>
<#--
 macro: handleExceptions

 purpose: Includes the try - catch clauses around the nested code.
-->
<#macro handleExceptions>
 <#if (thrownTypes?size == 0) >
      <#nested>
 <#else>
      try {
         <#nested>
      }
      <#list thrownTypes as exceptionType>
      catch ( <@includeModel object=exceptionType/> e ) {
         throw new RuntimeException( e );
      }
      </#list>
 </#if>
</#macro>
```

```
<#--
Performs a standard assignment.
-->
<#macro
 handleAssignment>
  <@includeModel object=assignment
          targetBeanName=ext.targetBeanName
          existingInstanceMapping=ext.existingInstanceMapping
          targetReadAccessorName=ext.targetReadAccessorName
          targetWriteAccessorName=ext.targetWriteAccessorName
          targetType=ext.targetType/>
</#macro>
<#--
Performs a default assignment with a default value.
-->
<#macro handeDefaultAssigment>
  <@includeModel object=ext.defaultValueAssignment
          targetBeanName=ext.targetBeanName
          existingInstanceMapping=ext.existingInstanceMapping
          targetReadAccessorName=ext.targetReadAccessorName
          targetWriteAccessorName=ext.targetWriteAccessorName
          targetType=ext.targetType
          defaultValue=ext.defaultValue/>
</#macro>
<#--
 macro: handleWrite

 purpose: To handle the writing to a field or using a method. The line is not closed with ';'
-->
<#macro handleWrite><#if
 fieldAssignment> = <#nested><#else>( <#nested> )</#if></#macro>

<#--
 macro: handleWriteAccesing

 purpose: To handle accesing the write target type
-->
<#macro handleWriteAccesing><#if fieldAssignment><#else>()</#if></#macro>
<#--
 macro: initTargetObject

 purpose: To factorize or construct a new target object
-->
<#macro initTargetObject><@compress single_line=true>
  <#if factoryMethod??>
     <@includeModel object=factoryMethod targetType=ext.targetType/>
  <#else>
      new <@constructTargetObject/>()
```

```
  </#if>
</@compress></#macro>
<#--
 macro: constructTargetObject

 purpose: Either call the constructor of the target object directly or of the implementing type.
-->
<#macro constructTargetObject><@compress single_line=true>
  <#if ext.targetType.implementationType??>
     <@includeModel object=ext.targetType.implementationType/>
  <#else>
     <@includeModel object=ext.targetType/>
  </#if>
</@compress></#macro>
<#--
 macro: sourceLocalVarAssignment

  purpose: assignment for source local variables. The sourceLocalVarName replaces the sourceReference in the
        assignmentcall.
-->
<#macro sourceLocalVarAssignment>
  <#if sourceLocalVarName??>
    <@includeModel object=sourceType/> ${sourceLocalVarName} = ${sourceReference};
  </#if>
</#macro>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/macro/CommonMacros.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.TypeConversion" -->
<#--

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```

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-->
<@compress single_line=true>
${openExpression}<@_assignment/>${closeExpression}
<#macro
 _assignment>
  <@includeModel object=assignment
        targetBeanName=ext.targetBeanName
        existingInstanceMapping=ext.existingInstanceMapping
        targetReadAccessorName=ext.targetReadAccessorName
        targetWriteAccessorName=ext.targetWriteAccessorName
        targetType=ext.targetType/>
</#macro>
</@compress>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/TypeConversion.ftl
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-->
${name}<#if ext.input??>(${ext.input})<#else>()</#if>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/ConversionMethod.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.assignment.EnumConstantWrapper" -->
<#--

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-->
${ext.targetType.name}.${assignment}

Found
in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/assignment/EnumConstantWrapper.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
<#--

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-->

```
private static DateTime ${name}(
 XMLGregorianCalendar xcal ) {
  if ( xcal == null ) {
     return null;
  }

  if ( xcal.getYear() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getMonth() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getDay() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getHour() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getMinute() != DatatypeConstants.FIELD_UNDEFINED
     ) {
        if ( xcal.getSecond() != DatatypeConstants.FIELD_UNDEFINED
           && xcal.getMillisecond() != DatatypeConstants.FIELD_UNDEFINED
           && xcal.getTimezone() != DatatypeConstants.FIELD_UNDEFINED ) {
           return new DateTime( xcal.getYear(),
              xcal.getMonth(),
              xcal.getDay(),
              xcal.getHour(),
              xcal.getMinute(),
              xcal.getSecond(),
              xcal.getMillisecond(),
              DateTimeZone.forOffsetMillis( xcal.getTimezone() * 60000
)
           );
        }
        else if ( xcal.getSecond() != DatatypeConstants.FIELD_UNDEFINED
           && xcal.getMillisecond() != DatatypeConstants.FIELD_UNDEFINED ) {
           return new DateTime( xcal.getYear(),
              xcal.getMonth(),
              xcal.getDay(),
              xcal.getHour(),
              xcal.getMinute(),
              xcal.getSecond(),
              xcal.getMillisecond()
           );
        }
        else if ( xcal.getSecond() != DatatypeConstants.FIELD_UNDEFINED
           && xcal.getTimezone() != DatatypeConstants.FIELD_UNDEFINED ) {
           return new DateTime( xcal.getYear(),
              xcal.getMonth(),
              xcal.getDay(),
              xcal.getHour(),
              xcal.getMinute(),
              xcal.getSecond(),
              DateTimeZone.forOffsetMillis( xcal.getTimezone() * 60000 )
           );
```

```
        }
        else if ( xcal.getSecond() != DatatypeConstants.FIELD_UNDEFINED ) {
           return new DateTime( xcal.getYear(),
              xcal.getMonth(),
              xcal.getDay(),
              xcal.getHour(),
              xcal.getMinute(),
              xcal.getSecond()
           );
        }
        else if ( xcal.getTimezone() != DatatypeConstants.FIELD_UNDEFINED ) {
           return new DateTime( xcal.getYear(),
              xcal.getMonth(),
              xcal.getDay(),
              xcal.getHour(),
              xcal.getMinute(),
              DateTimeZone.forOffsetMillis( xcal.getTimezone() * 60000 )
        );
        }
        else {
           return new DateTime( xcal.getYear(),
              xcal.getMonth(),
              xcal.getDay(),
              xcal.getHour(),
              xcal.getMinute()
        );
        }

    }
  return null;
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToJodaDateTime.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.Annotation" -->
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-->
@<@includeModel object=type/><#if (properties?size
 > 0) >(<#list properties as property>${property}<#if property_has_next>, </#if></#list>)</#if>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/Annotation.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
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-->
private <T> T ${name}( JAXBElement<T>
 element ) {
  if ( element == null ) {
     return null;
  }

  return element.isNil() ? null : element.getValue();
}

Found in path(s):
```

* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/JaxbElemToValue.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.common.Type" -->

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-->
<@compress single_line=true>
  <#if
 wildCardExtendsBound>
      ? extends <@includeModel object=typeBound />
  <#elseif wildCardSuperBound>
      ? super <@includeModel object=typeBound />
  <#else>
      <#if imported>${name}<#else>${fullyQualifiedName}</#if></#if><#if (!ext.raw?? && typeParameters?size >
0) ><<#list typeParameters as typeParameter><@includeModel object=typeParameter /><#if
typeParameter_has_next>, </#if></#list>>
  </#if>
</@compress>
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/Type.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
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-->
private static LocalTime ${name}(
 XMLGregorianCalendar xcal ) {
  if ( xcal == null ) {
     return null;
  }

  if ( xcal.getHour() != DatatypeConstants.FIELD_UNDEFINED
      && xcal.getMinute() != DatatypeConstants.FIELD_UNDEFINED ) {
        if ( xcal.getSecond() != DatatypeConstants.FIELD_UNDEFINED
           && xcal.getMillisecond() != DatatypeConstants.FIELD_UNDEFINED ) {
           return new LocalTime( xcal.getHour(),
              xcal.getMinute(),
              xcal.getSecond(),
              xcal.getMillisecond()
           );
        }
        else if ( xcal.getSecond() != DatatypeConstants.FIELD_UNDEFINED ) {
           return new LocalTime(
              xcal.getHour(),
              xcal.getMinute(),
              xcal.getSecond()
           );
        }
        else {
           return new LocalTime( xcal.getHour(),
              xcal.getMinute()
        );
        }
     }
  return
 null;
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToJodaLocalTime.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.LifecycleCallbackMethodReference" -->
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-->
<@compress single_line=true>
   <#if hasReturnType()>
      <@includeModel object=methodResultType /> ${targetVariableName} =
  </#if>
  <#include 'MethodReference.ftl'>;
</@compress>
<#if hasReturnType()><#nt>
if ( ${targetVariableName} != null ) {
  return<#if methodReturnType.name != "void"> ${targetVariableName}</#if>;
}</#if>
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/LifecycleCallbackMethodReference.ftl
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```
<#-- @ftlvariable name=""
type="org.mapstruct.ap.internal.model.assignment.SetterWrapperForCollectionsAndMaps" -->
<#--

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```

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-->
<#import
"../macro/CommonMacros.ftl" as lib>
<@lib.sourceLocalVarAssignment/>
<@lib.handleExceptions>
${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><@lib.handleAssignment/></@lib.handleWrite>;
</@lib.handleExceptions>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/SetterWrapperForCollectionsAndMaps.ftl
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org.mapstruct.ap.internal.processor.CdiComponentProcessor

```
org.mapstruct.ap.internal.processor.Jsr330ComponentProcessor
org.mapstruct.ap.internal.processor.MapperCreationProcessor
org.mapstruct.ap.internal.processor.MapperRenderingProcessor
org.mapstruct.ap.internal.processor.MethodRetrievalProcessor
org.mapstruct.ap.internal.processor.SpringComponentProcessor
org.mapstruct.ap.internal.processor.MapperServiceProcessor

Found
 in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/META-
INF/services/org.mapstruct.ap.internal.processor.ModelElementProcessor
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.MapMappingMethod" -->
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-->
<#if overridden>@Override</#if>
<#lt>${accessibility.keyword}
 <@includeModel object=returnType /> ${name}(<#list parameters as param><@includeModel
object=param/><#if param_has_next>, </#if></#list>)<@throws/> {
  <#list beforeMappingReferencesWithoutMappingTarget as callback>
   <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
   <#if !callback_has_next>

   </#if>
  </#list>
  if ( ${sourceParameter.name} == null ) {
     <#if !mapNullToDefault>
        return<#if returnType.name != "void"> null</#if>;
     <#else>
```

```
        <#if existingInstanceMapping>
            ${resultName}.clear();
            return<#if returnType.name != "void"> ${resultName}</#if>;
        <#else>
            return <@includeModel object=iterableCreation useSizeIfPossible=false/>;
        </#if>
      </#if>
  }

  <#if existingInstanceMapping>
      ${resultName}.clear();
  <#else>
      <@includeModel object=resultType /> ${resultName} = <@includeModel
 object=iterableCreation useSizeIfPossible=true/>;
  </#if>

  <#list beforeMappingReferencesWithMappingTarget as callback>
      <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
      <#if !callback_has_next>

      </#if>
  </#list>
  <#-- Once #148 has been addressed, the simple name of Map.Entry can be used -->
  for ( java.util.Map.Entry<<#list sourceElementTypes as typeParameter><@includeModel object=typeParameter
/><#if typeParameter_has_next>, </#if></#list>> ${entryVariableName} : ${sourceParameter.name}.entrySet() ) {
  <#-- key -->
      <@includeModel object=keyAssignment
              targetWriteAccessorName=keyVariableName
              targetType=resultElementTypes[0].typeBound/>
  <#-- value -->
      <@includeModel object=valueAssignment
              targetWriteAccessorName=valueVariableName
              targetType=resultElementTypes[1].typeBound/>
      ${resultName}.put( ${keyVariableName},
 ${valueVariableName} );
  }
  <#list afterMappingReferences as callback>
   <#if callback_index = 0>

   </#if>
   <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
  </#list>
  <#if returnType.name != "void">

      return ${resultName};
  </#if>
}
<#macro throws>
```

```
  <#if (thrownTypes?size > 0)><#lt> throws </#if><@compress single_line=true>
    <#list thrownTypes as exceptionType>
      <@includeModel object=exceptionType/>
      <#if exceptionType_has_next>, </#if><#t>
    </#list>
  </@compress>
</#macro>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/MapMappingMethod.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.MethodReference" -->
<#--

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-->
<@compress single_line=true>

  <#-- method is either internal to the mapper class, or external (via uses) declaringMapper!=null -->
  <#if declaringMapper??>
    <#if static><@includeModel
object=declaringMapper.type/><#else>${mapperVariableName}</#if>.<@methodCall/>
  <#-- method is provided by a context parameter  -->
  <#elseif providingParameter??>
    <#if static><@includeModel
object=providingParameter.type/><#else>${providingParameter.name}</#if>.<@methodCall/>
  <#-- method is referenced java8 static method in the mapper to implement (interface)  -->
  <#elseif static>
    <@includeModel object=definingType/>.<@methodCall/>
  <#else>
    <@methodCall/>
```

```
  </#if>
</@compress>
<#--
 macro:   methodCall
 purpose: the actual method call (stuff following the dot)
-->
<#macro methodCall>
  <#lt>${name}<#if (parameterBindings?size > 0)>( <@arguments/> )<#else>()</#if>
</#macro>
<#--
 macro:   arguments
 purpose: the arguments in the method call
-->
<#macro arguments>
  <#list
 parameterBindings as param>
     <#if param.targetType>
        <#-- a class is passed on for casting, see @TargetType -->
        <@includeModel object=ext.targetType raw=true/>.class<#t>
     <#elseif param.mappingTarget>
        ${ext.targetBeanName}<#if ext.targetReadAccessorName??>.${ext.targetReadAccessorName}</#if><#t>
     <#elseif param.mappingContext>
        ${param.variableName}<#t>
     <#elseif param.sourceRHS??>
        <@_assignment assignmentToUse=param.sourceRHS/><#t>
     <#elseif assignment??>
        <@_assignment assignmentToUse=assignment/><#t>
     <#else>
        ${param.variableName}<#t>
     </#if>
        <#if param_has_next>, </#if><#t>
     </#list>
  <#-- context parameter, e.g. for builtin methods concerning date conversion -->
  <#if contextParam??>, ${contextParam}</#if><#t>
</#macro>
<#--
 macro:   assignment
 purpose: note: takes its targetyType from the singleSourceParameterType
-->
<#macro
 _assignment assignmentToUse>
  <@includeModel object=assignmentToUse
     targetBeanName=ext.targetBeanName
          existingInstanceMapping=ext.existingInstanceMapping
          targetReadAccessorName=ext.targetReadAccessorName
          targetWriteAccessorName=ext.targetWriteAccessorName
          targetType=singleSourceParameterType/>
</#macro>
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/MethodReference.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.NestedPropertyMappingMethod" -->
<#--

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-->
<#lt>private <@includeModel
 object=returnType/> ${name}(<#list parameters as param><@includeModel object=param/><#if
param_has_next>, </#if></#list>) {
  if ( ${sourceParameter.name} == null ) {
    return ${returnType.null};
  }
<#list propertyEntries as entry>
  <#if entry.presenceCheckerName?? >
  if ( !<@localVarName index=entry_index/>.${entry.presenceCheckerName}() ) {
    return ${returnType.null};
  }
  </#if>
  <@includeModel object=entry.type/> ${entry.name} = <@localVarName
index=entry_index/>.${entry.accessorName};
  <#if !entry.presenceCheckerName?? >
  <#if !entry.type.primitive>
  if ( ${entry.name} == null ) {
    return ${returnType.null};
  }
  </#if>
  </#if>
  <#if !entry_has_next>
```

```
  return ${entry.name};
  </#if>
</#list>
}
<#macro localVarName index><#if index == 0>${sourceParameter.name}<#else>${propertyEntries[index-
1].name}</#if></#macro>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/NestedPropertyMappingMethod.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.ValueMappingMethod" -->
<#--

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-->
<#if overridden>@Override</#if>
<#lt>${accessibility.keyword}
 <@includeModel object=returnType/> ${name}(<@includeModel object=sourceParameter/>) {
  <#list beforeMappingReferencesWithoutMappingTarget as callback>
     <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
     <#if !callback_has_next>

     </#if>
  </#list>
  if ( ${sourceParameter.name} == null ) {
     return <#if nullTarget??><@includeModel object=returnType/>.${nullTarget}<#else>null</#if>;
  }

  <@includeModel object=resultType/> ${resultName};
```

```
  switch ( ${sourceParameter.name} ) {
  <#list valueMappings as valueMapping>
     case ${valueMapping.source}: ${resultName} = <#if valueMapping.target??><@includeModel
object=returnType/>.${valueMapping.target}<#else>null</#if>;
     break;
  </#list>
  default: <#if throwIllegalArgumentException>throw new IllegalArgumentException( "Unexpected enum
constant: " + ${sourceParameter.name} )<#else>${resultName} = <#if defaultTarget??><@includeModel
 object=returnType/>.${defaultTarget}<#else>null</#if></#if>;
  }
  <#list beforeMappingReferencesWithMappingTarget as callback>
     <#if callback_index = 0>

     </#if>
     <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
  </#list>
  <#list afterMappingReferences as callback>
     <#if callback_index = 0>

     </#if>
     <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
  </#list>

  return ${resultName};
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/ValueMappingMethod.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.AnnotationMapperReference" -->
<#--

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```

```
   limitations under the License.

-->
<#list annotations as
 annotation>
<#nt><@includeModel object=annotation/>
</#list>
private <@includeModel object=type/> ${variableName};
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/AnnotationMapperReference.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.assignment.ArrayCopyWrapper" -->
<#--

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-->
<#import "../macro/CommonMacros.ftl"
 as lib>
<@lib.handleExceptions>
  <@lib.sourceLocalVarAssignment/>
  <@lib.handleSourceReferenceNullCheck>
     ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite>Arrays.copyOf(
${sourceLocalVarName}, ${sourceLocalVarName}.length )</@lib.handleWrite>;
  </@lib.handleSourceReferenceNullCheck>
</@lib.handleExceptions>
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/ArrayCopyWrapper.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.EnumMappingMethod" -->
<#--

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-->
@Override
public <@includeModel
 object=returnType/> ${name}(<@includeModel object=sourceParameter/>) {
  <#list beforeMappingReferencesWithoutMappingTarget as callback>
     <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
     <#if !callback_has_next>

     </#if>
  </#list>
  if ( ${sourceParameter.name} == null ) {
     return  null;
  }

  <@includeModel object=resultType/> ${resultName};

  switch ( ${sourceParameter.name} ) {
  <#list enumMappings as enumMapping>
     case ${enumMapping.source}: ${resultName} = <@includeModel
object=returnType/>.${enumMapping.target};
        break;
  </#list>
  default: throw new IllegalArgumentException( "Unexpected enum constant: " + ${sourceParameter.name} );
  }
  <#list beforeMappingReferencesWithMappingTarget as callback>
     <#if callback_index = 0>

     </#if>
```

```
    <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
  </#list>
  <#list afterMappingReferences
 as callback>
    <#if callback_index = 0>

    </#if>
    <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
  </#list>

  return ${resultName};
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/EnumMappingMethod.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
<#--

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-->
private String ${name}( XMLGregorianCalendar
 xcal, String dateFormat ) {
  if ( xcal == null ) {
    return null;
  }

  if (dateFormat == null ) {
    return xcal.toString();
  }
  else {
```

```
      Date d = xcal.toGregorianCalendar().getTime();
      SimpleDateFormat sdf = new SimpleDateFormat( dateFormat );
      return sdf.format( d );
    }
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToString.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.assignment.UpdateWrapper" -->
<#--

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    limitations under the License.

-->
<#import '../macro/CommonMacros.ftl'
 as lib >
<@lib.handleExceptions>
 <#if includeSourceNullCheck>
   if ( <#if sourcePresenceCheckerReference?? >${sourcePresenceCheckerReference}<#else>${sourceReference}
!= null</#if> ) {
     <@assignToExistingTarget/>
     <@lib.handleAssignment/>;
   }
   else {
     ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><#if
mapNullToDefault><@lib.initTargetObject/><#else>null</#if></@lib.handleWrite>;
   }
 <#else>
   <@assignToExistingTarget/>
   <@lib.handleAssignment/>;
```

```
 </#if>
</@lib.handleExceptions>
<#--
  target innner check and assignment
-->
<#macro assignToExistingTarget>
  if ( ${ext.targetBeanName}.${ext.targetReadAccessorName} == null ) {
${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><@lib.initTargetObject/></@lib.han
dleWrite>;
  }
</#macro>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/UpdateWrapper.ftl
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<#-- @ftlvariable name=""
type="org.mapstruct.ap.internal.model.assignment.ExistingInstanceSetterWrapperForCollectionsAndMaps" -->
<#--

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-->
<#import "../macro/CommonMacros.ftl" as lib>
<@lib.sourceLocalVarAssignment/>
<@lib.handleExceptions>
 if ( ${ext.targetBeanName}.${ext.targetReadAccessorName} != null ) {
    <@lib.handleLocalVarNullCheck needs_explicit_local_var=false>
    ${ext.targetBeanName}.${ext.targetReadAccessorName}.clear();
    ${ext.targetBeanName}.${ext.targetReadAccessorName}.<#if
ext.targetType.collectionType>addAll<#else>putAll</#if>( <@lib.handleWithAssignmentOrNullCheckVar/> );
    </@lib.handleLocalVarNullCheck>
```

```
    <#if !ext.defaultValueAssignment?? && !sourcePresenceCheckerReference?? &&
!includeSourceNullCheck>else {<#-- the opposite (defaultValueAssignment) case is handeld inside
lib.handleLocalVarNullCheck -->
    ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><#if
mapNullToDefault><@lib.initTargetObject/><#else>null</#if></@lib.handleWrite>;
    }
    </#if>
 }
 else {
    <@callTargetWriteAccessor/>
 }
</@lib.handleExceptions>
<#--

 assigns the target via the regular target write accessor (usually the setter)
-->
<#macro callTargetWriteAccessor>
 <@lib.handleLocalVarNullCheck needs_explicit_local_var=directAssignment>
  ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><#if
directAssignment><@wrapLocalVarInCollectionInitializer/><#else><@lib.handleWithAssignmentOrNullCheckVa
r/></#if></@lib.handleWrite>;
 </@lib.handleLocalVarNullCheck>
</#macro>
<#--
 wraps the local variable in a collection initializer (new collection, or EnumSet.copyOf)
-->
<#macro wrapLocalVarInCollectionInitializer><@compress single_line=true>
  <#if enumSet>
    EnumSet.copyOf( ${nullCheckLocalVarName} )
  <#else>
    new <#if ext.targetType.implementationType??><@includeModel
object=ext.targetType.implementationType/><#else><@includeModel object=ext.targetType/></#if>(
${nullCheckLocalVarName} )
  </#if>
</@compress></#macro>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/assignment/ExistingInstanceSetterWrapperForCollectionsAndMaps.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
<#--

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-->
private static Date ${name}(
 XMLGregorianCalendar xcal ) {
  if ( xcal == null ) {
     return null;
  }

  return xcal.toGregorianCalendar().getTime();
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToDate.ftl
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org.mapstruct.ap.MappingProcessor
```

Found in path(s):

* /mapstruct-processor-1-2-0-final-sources-3-jar/META-INF/services/javax.annotation.processing.Processor
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.IterableMappingMethod" -->
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-->
<#if overridden>@Override</#if>
<#lt>${accessibility.keyword}
 <@includeModel object=returnType/> ${name}(<#list parameters as param><@includeModel object=param/><#if
param_has_next>, </#if></#list>)<@throws/> {
   <#list beforeMappingReferencesWithoutMappingTarget as callback>
    <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
    <#if !callback_has_next>

    </#if>
   </#list>
   if ( ${sourceParameter.name} == null ) {
      <#if !mapNullToDefault>
         <#-- returned target type starts to miss-align here with target handed via param, TODO is this right? -->
         return<#if returnType.name != "void"> null</#if>;
      <#else>
         <#if resultType.arrayType>
            <#if existingInstanceMapping>
               <#-- we can't clear an existing array, so we've got to clear by setting values to default -->
               for (int ${index2Name} = 0; ${index2Name} < ${resultName}.length; ${index2Name}++ ) {
                  ${resultName}[${index2Name}]
 = ${resultElementType.null};
               }
               return<#if returnType.name != "void"> ${resultName}</#if>;
            <#else>
```

```
            return new <@includeModel object=resultElementType/>[0];
          </#if>
        <#else>
          <#if existingInstanceMapping>
            ${resultName}.clear();
            return<#if returnType.name != "void"> ${resultName}</#if>;
          <#else>
            return <@includeModel object=iterableCreation useSizeIfPossible=false/>;
          </#if>
        </#if>
      </#if>
    }

    <#if resultType.arrayType>
      <#if !existingInstanceMapping>
        <#assign elementTypeString><@includeModel object=resultElementType/></#assign>
        ${elementTypeString}[] ${resultName} = new
${elementTypeString?keep_before('[]')}[<@iterableSize/>]${elementTypeString?replace('[^\\[\\]]+', '', 'r')};
      </#if>
    <#else>
       <#if existingInstanceMapping>
        ${resultName}.clear();
      <#else>
        <#-- Use the interface type on the left side, except it is java.lang.Iterable; use the implementation type - if
present - on the right side -->
        <@iterableLocalVarDef/> ${resultName} = <@includeModel object=iterableCreation
useSizeIfPossible=true/>;
      </#if>
    </#if>
    <#list beforeMappingReferencesWithMappingTarget as callback>
     <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
     <#if !callback_has_next>

     </#if>
    </#list>
    <#if resultType.arrayType>
      int ${index1Name} = 0;
      for ( <@includeModel object=sourceElementType/> ${loopVariableName} : ${sourceParameter.name} ) {
        <#if existingInstanceMapping>
        if ( ( ${index1Name} >= ${resultName}.length ) || ( ${index1Name} >= <@iterableSize/> ) ) {
          break;
        }
        </#if>
        <@includeModel object=elementAssignment
 targetWriteAccessorName=resultName+"[${index1Name}]" targetType=resultElementType
isTargetDefined=true/>
        ${index1Name}++;
      }
```

```
  <#else>
    for ( <@includeModel object=sourceElementType/> ${loopVariableName} : ${sourceParameter.name} ) {
      <@includeModel object=elementAssignment targetBeanName=resultName
targetWriteAccessorName="add" targetType=resultElementType/>
    }
  </#if>
  <#list afterMappingReferences as callback>
   <#if callback_index = 0>

   </#if>
   <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
  </#list>

  <#if returnType.name != "void">
    return ${resultName};
  </#if>
}
<#macro throws>
  <#if (thrownTypes?size > 0)><#lt> throws </#if><@compress single_line=true>
    <#list thrownTypes as exceptionType>
      <@includeModel object=exceptionType/>
      <#if exceptionType_has_next>, </#if><#t>
    </#list>
  </@compress>
</#macro>
<#macro
 iterableSize>
  <@compress single_line=true>
    <#if sourceParameter.type.arrayType>
      ${sourceParameter.name}.length
    <#else>
      ${sourceParameter.name}.size()
    </#if>
  </@compress>
</#macro>
<#macro iterableLocalVarDef>
  <@compress single_line=true>
    <#if resultType.fullyQualifiedName == "java.lang.Iterable">
      <@includeModel object=resultType.implementationType/>
    <#else>
      <@includeModel object=resultType/>
    </#if>
  </@compress>
</#macro>
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/IterableMappingMethod.ftl

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```
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<#--

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-->
private Calendar ${name}(
 XMLGregorianCalendar xcal ) {
  if ( xcal == null ) {
     return null;
  }

  Calendar cal = Calendar.getInstance();
  cal.setTimeInMillis( xcal.toGregorianCalendar().getTimeInMillis() );
  return cal;
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToCalendar.ftl
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```
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-->
private ZonedDateTime ${name}(Calendar
 cal) {
  if ( cal == null ) {
     return null;
  }

  return ZonedDateTime.ofInstant( cal.toInstant(), cal.getTimeZone().toZoneId() );
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/CalendarToZonedDateTime.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.Field" -->
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-->
private final <@includeModel object=type/>
```

```
 ${variableName};
```

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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/Field.ftl
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```
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-->
private XMLGregorianCalendar
 ${name}( LocalDate dt ) {
  if ( dt == null ) {
     return null;
  }

  try {
     return DatatypeFactory.newInstance().newXMLGregorianCalendarDate(
        dt.getYear(),
        dt.getMonthOfYear(),
        dt.getDayOfMonth(),
        DatatypeConstants.FIELD_UNDEFINED );
  }
  catch ( DatatypeConfigurationException ex ) {
     throw new RuntimeException( ex );
  }
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/JodaLocalDateToXmlGregorianCalendar.ftl

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-->
<@includeModel object=assignment
            targetBeanName=ext.targetBeanName
           existingInstanceMapping=ext.existingInstanceMapping
           targetReadAccessorName=targetReadAccessorName
           targetWriteAccessorName=targetWriteAccessorName
           targetType=targetType
           defaultValueAssignment=defaultValueAssignment />

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-->
private XMLGregorianCalendar
 ${name}( Date date ) {
  if ( date == null ) {
     return null;
  }

  try {
     GregorianCalendar c = new GregorianCalendar();
     c.setTime( date );
     return DatatypeFactory.newInstance().newXMLGregorianCalendar( c );
  }
  catch ( DatatypeConfigurationException ex ) {
     throw new RuntimeException( ex );
  }
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/DateToXmlGregorianCalendar.ftl
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```

```
-->
private XMLGregorianCalendar
 ${name}( LocalDateTime dt ) {
  if ( dt == null ) {
     return null;
  }

  try {
     return DatatypeFactory.newInstance().newXMLGregorianCalendar(
        dt.getYear(),
        dt.getMonthOfYear(),
        dt.getDayOfMonth(),
        dt.getHourOfDay(),
        dt.getMinuteOfHour(),
        dt.getSecondOfMinute(),
        dt.getMillisOfSecond(),
        DatatypeConstants.FIELD_UNDEFINED );
  }
  catch ( DatatypeConfigurationException ex ) {
     throw new RuntimeException( ex );
  }
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/JodaLocalDateTimeToXmlGregorianCalendar.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.ServicesEntry" -->
<#--

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```

```
-->
${implementationPackage}.${implementationName}

Found
 in path(s):
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<#--

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-->
private XMLGregorianCalendar
 ${name}( DateTime dt ) {
  if ( dt == null ) {
     return null;
  }

  try {
     return DatatypeFactory.newInstance().newXMLGregorianCalendar(
        dt.getYear(),
        dt.getMonthOfYear(),
        dt.getDayOfMonth(),
        dt.getHourOfDay(),
        dt.getMinuteOfHour(),
        dt.getSecondOfMinute(),
        dt.getMillisOfSecond(),
        dt.getZone().getOffset( null ) / 60000 );
  }
  catch ( DatatypeConfigurationException ex ) {
```

```
        throw new RuntimeException( ex );
    }
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/JodaDateTimeToXmlGregorianCalendar.ftl
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1.71 springdoc-openapi-starter-webmvc-api 2.8.9

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1.72 jacoco-core 0.8.11

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 17
Automatic-Module-Name: org.jacoco.core
Bnd-LastModified: 1697316806367
Build-Jdk: 17.0.8.1
Built-By: root
Bundle-Description: JaCoCo Core
Bundle-License: https://www.eclipse.org/legal/epl-2.0/
Bundle-ManifestVersion: 2
Bundle-Name: JaCoCo Core
Bundle-RequiredExecutionEnvironment: J2SE-1.5
Bundle-SymbolicName: org.jacoco.core

Bundle-Vendor: Mountainminds GmbH & Co. KG
Bundle-Version: 0.8.11.202310140853
Eclipse-SourceReferences: scm:git:git://github.com/jacoco/jacoco.git;pat
h="org.jacoco.core";commitId=f33756c37f1e41041d84018047b14cb394742761
Export-Package: org.jacoco.core.internal;x-internal:=true;version="0.8.1
1",org.jacoco.core.internal.analysis;x-internal:=true;version="0.8.11";
uses:="org.jacoco.core.analysis,org.jacoco.core.internal.analysis.filte
r,org.jacoco.core.internal.flow,org.objectweb.asm,org.objectweb.asm.tre
e",org.jacoco.core.internal.analysis.filter;x-internal:=true;version="0
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:=true;version="0.8.11";uses:="org.jacoco.core.internal.analysis,org.ob
jectweb.asm,org.objectweb.asm.commons,org.objectweb.asm.tree",org.jacoc
o.core.internal.instr;x-internal:=true;version="0.8.11";uses:="org.jaco
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re.data"
Import-Package: org.jacoco.core;version="[0.8.11,0.8.12)",org.jacoco.cor
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12)",org.jacoco.core.runtime;version="[0.8.11,0.8.12)",org.objectweb.as
m;version="[9.6.0,9.7)",org.objectweb.asm.commons;version="[9.6.0,9.7)"
,org.objectweb.asm.tree;version="[9.6.0,9.7)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.5))"
Tool: Bnd-3.5.0.201709291849

Found in path(s):
* /org-jacoco-core-0-8-11-2-jar/META-INF/MANIFEST.MF

1.73 imap 2.0.5

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1.74 jspecify 1.0.0

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Manifest-Version: 1.0
Bundle-Description: An artifact of well-specified annotations to power
static analysis checks and JVM language interop.
Bundle-DocURL: https://jspecify.dev/docs/start-here
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-ManifestVersion: 2
Bundle-Name: JSpecify annotations
Bundle-SymbolicName: org.jspecify.jspecify
Bundle-Vendor: The JSpecify Authors
Bundle-Version: 1.0.0
Export-Package: org.jspecify.annotations;version="1.0.0"
Implementation-Version: 1.0.0
Import-Package: java.lang,java.lang.annotation
Multi-Release: true
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Found in path(s):
* /jspecify-1-0-0-jar/META-INF/MANIFEST.MF

1.75 webjars-locator-lite 1.1.2

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1.76 commons-codec 1.17.1

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1.77 commons-net 3.9.0

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1.78 regions 2.27.21

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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/SSLClientSessionCache.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/FileClientSessionCache.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/AbstractSessionContext.java
*
 /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/TrustedCertificateIndex.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/SSLServerSessionCache.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OAEPParameters.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Java9PlatformUtil.java
*
 /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Java7ExtendedSSLSession.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Internal.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/HandshakeListener.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Java8FileDescriptorSocket.java
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 /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/KeyManagerImpl.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/SSLParametersImpl.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OkHostnameVerifier.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLEvpCipherDESEDE.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OidData.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLRSAPublicKey.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLRSAKeyPairGenerator.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLECKeyPairGenerator.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLRandom.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLSignatureRawRSA.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ChainStrengthAnalyzer.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ConscryptCertStore.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLX509CRLEntry.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLX509CRL.java
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 /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLECDHKeyAgreement.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLSocketImpl.java
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*
 /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/CryptoUpcalls.java
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1.91 google-cloud-core 2.38.0

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 /google-cloud-core-2-38-0-sources-jar/com/google/cloud/StringEnumValue.java
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* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/ServiceFactory.java
*
 /google-cloud-core-2-38-0-sources-jar/com/google/cloud/RetryHelper.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/BaseServiceException.java
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* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/Policy.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/FieldSelector.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/testing/BaseEmulatorHelper.java
*
 /google-cloud-core-2-38-0-sources-jar/com/google/cloud/RetryOption.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/testing/BlockingProcessStreamReader.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/AsyncPageImpl.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/Identity.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/Structs.java
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* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/NoCredentials.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/MonitoredResourceDescriptor.java
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1.92 threetenbp 1.6.9

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* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/MinguoEra.java
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* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ThaiBuddhistEra.java
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/threetenbp-1-6-9-sources-jar/org/threeten/bp/jdk8/DefaultInterfaceTemporalAccessor.java
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* /threetenbp-1-6-9-sources-jar/org/threeten/bp/DayOfWeek.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/ChronoUnit.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/ValueRange.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/TemporalAmount.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/LocalDateTime.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/format/SignStyle.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ChronoLocalDateTime.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/IsoEra.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/IsoChronology.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/JapaneseDate.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/Clock.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/Month.java
*
/threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/TemporalQuery.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ChronoPeriodImpl.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/YearMonth.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/ChronoField.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/UnsupportedTemporalTypeException.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/DateTimeException.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ChronoZonedDateTime.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/ZoneOffset.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/format/ResolverStyle.java
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* /threetenbp-1-6-9-sources-jar/org/threeten/bp/Duration.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/format/DateTimeParseContext.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/MinguoChronology.java

*
/threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/HijrahDate.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/Chronology.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/JapaneseChronology.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/TemporalAdjuster.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/TemporalQueries.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/JulianFields.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/Period.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/format/DateTimeParseException.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/Year.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/format/SimpleDateTimeFormatStyleProvider.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/zone/ZoneRulesBuilder.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/zone/ZoneRulesException.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ThaiBuddhistChronology.java
*
/threetenbp-1-6-9-sources-jar/org/threeten/bp/zone/ZoneRulesInitializer.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/ZoneRegion.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/zone/Ser.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/Temporal.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/OffsetDateTime.java
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* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ThaiBuddhistDate.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/ZonedDateTime.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ChronoZonedDateTimeImpl.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ChronoPeriod.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/TemporalUnit.java
*
/threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/MinguoDate.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/format/DateTimeFormatterBuilder.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/AbstractChronology.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/zone/ZoneRules.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/format/DateTimeFormatter.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/jdk8/Jdk8Methods.java
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1.93 stax 4.2.2

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* /proto-google-cloud-firestore-v1-3-21-1-1-jar/google/firestore/v1/firestore.proto
* /proto-google-cloud-firestore-v1-3-21-1-1-jar/google/firestore/v1/query.proto
* /proto-google-cloud-firestore-v1-3-21-1-1-jar/google/firestore/v1/bloom_filter.proto
* /proto-google-cloud-firestore-v1-3-21-1-1-jar/google/firestore/v1/aggregation_result.proto
*
/proto-google-cloud-firestore-v1-3-21-1-1-jar/google/firestore/v1/write.proto

1.97 smtp 2.0.5

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1.104 prometheus-metrics-model 1.3.10

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1.107 gapic-google-cloud-storage-v2 2.38.0-alpha

1.107.1 Available under license :

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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*/

Found in path(s):
* /gapic-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/stub/StorageStub.java
* /gapic-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/stub/StorageStubSettings.java
* /gapic-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/stub/GrpcStorageStub.java
*
/gapic-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/stub/GrpcStorageCallableFactory.java
* /gapic-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/package-info.java
* /gapic-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/StorageSettings.java
* /gapic-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/StorageClient.java

1.108 google-api-services-storage v1-rev20240319-2.0.0

1.108.1 Available under license :

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

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
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>org.sonatype.oss</groupId>
<artifactId>oss-parent</artifactId>
<version>7</version>
</parent>

<groupId>com.google.apis</groupId>
<artifactId>google-api-services-storage</artifactId>
<version>v1-rev20240319-2.0.0</version>
<name>Cloud Storage JSON API v1-rev20240319-2.0.0</name>
<packaging>jar</packaging>

<inceptionYear>2011</inceptionYear>

<organization>
<name>Google</name>
<url>http://www.google.com/</url>
</organization>

<licenses>
<license>
<name>The Apache Software License, Version 2.0</name>
<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

```
    <distribution>repo</distribution>
  </license>
 </licenses>

<distributionManagement>
  <snapshotRepository>
    <id>ossrh</id>
    <url>https://google.oss.sonatype.org/content/repositories/snapshots</url>
  </snapshotRepository>
</distributionManagement>

<build>
  <plugins>
    <plugin>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.9.0</version>
      <configuration>
        <source>1.7</source>
        <target>1.7</target>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.sonatype.plugins</groupId>
      <artifactId>nexus-staging-maven-plugin</artifactId>
      <version>1.6.8</version>
      <extensions>true</extensions>
      <configuration>
        <serverId>ossrh</serverId>
        <nexusUrl>https://google.oss.sonatype.org/</nexusUrl>
        <autoReleaseAfterClose>true</autoReleaseAfterClose>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-source-plugin</artifactId>
       <version>2.4</version>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-jar-plugin</artifactId>
      <version>3.1.2</version>
      <configuration>
        <archive>
          <manifestEntries>
            <Automatic-Module-Name>com.google.api.services.storage</Automatic-Module-Name>
          </manifestEntries>
        </archive>
      </configuration>
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    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-javadoc-plugin</artifactId>
      <version>3.1.0</version>
      <executions>
        <execution>
          <id>attach-javadocs</id>
          <goals>
            <goal>jar</goal>
          </goals>
        </execution>
      </executions>
      <configuration>
        <doclint>none</doclint>
        <doctitle>Cloud Storage JSON API ${project.version}</doctitle>
        <windowtitle>Cloud Storage JSON
API ${project.version}</windowtitle>
        <links>
          <link>http://docs.oracle.com/javase/7/docs/api</link>
          <link>https://googleapis.dev/java/google-http-client/1.44.1/</link>
          <link>https://googleapis.dev/java/google-oauth-client/1.35.0/</link>
          <link>https://googleapis.dev/java/google-api-client/2.4.0/</link>
        </links>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.codehaus.mojo</groupId>
      <artifactId>clirr-maven-plugin</artifactId>
      <version>2.8</version>
      <configuration>
        <ignoredDifferencesFile>clirr-ignored-differences.xml</ignoredDifferencesFile>
        <logResults>true</logResults>
      </configuration>
      <executions>
        <execution>
          <goals>
            <goal>check</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
  </plugins>
  <sourceDirectory>.</sourceDirectory>
  <resources>

 <resource>
     <directory>./resources</directory>
```

```
    </resource>
  </resources>
</build>

<dependencies>
  <dependency>
    <groupId>com.google.api-client</groupId>
    <artifactId>google-api-client</artifactId>
    <version>2.4.0</version>
  </dependency>
</dependencies>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
</properties>

<profiles>
  <profile>
    <id>release-sign-artifacts</id>
    <activation>
      <property>
        <name>performRelease</name>
        <value>true</value>
      </property>
    </activation>
    <build>
      <plugins>
        <plugin>
          <groupId>org.apache.maven.plugins</groupId>
          <artifactId>maven-gpg-plugin</artifactId>
          <version>1.6</version>
          <executions>
            <execution>
              <id>sign-artifacts</id>
              <phase>verify</phase>
              <goals>
                <goal>sign</goal>
              </goals>
              <configuration>
                <gpgArguments>
                  <arg>--pinentry-mode</arg>
                  <arg>loopback</arg>
                </gpgArguments>
              </configuration>
            </execution>
          </executions>
        </plugin>
      </plugins>
```

```
    </build>
  </profile>
 </profiles>
</project>
```

Found in path(s):
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/pom.xml
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-jar/META-INF/maven/com.google.apis/google-api-services-storage/pom.xml
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```
<p class="legalCopy"><small>Copyright &#169; 2011&#x2013;2024 <a
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```

Found in path(s):
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.DefaultObjectAccessControls.Delete.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.ManagedFolders.Insert.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Notifications.Get.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/class-use/GoogleLongrunningListOperationsResponse.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/StorageRequest.html
*
 /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Projects.ServiceAccount.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Notifications.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/model/Objects.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/class-use/Bucket.Logging.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/StorageRequestInitializer.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/ObjectAccessControls.html
*
 /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Buckets.Insert.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/Storage.Projects.HmacKeys.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Operations.Get.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Projects.HmacKeys.Get.html

* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Folders.Delete.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/Storage.Buckets.GetIamPolicy.html
*
/google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/overview-tree.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/model/GoogleRpcStatus.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/Storage.ManagedFolders.Delete.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Buckets.SetIamPolicy.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/Policy.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Buckets.LockRetentionPolicy.html
*
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* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/Storage.Objects.GetIamPolicy.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/Storage.Objects.Update.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/Bucket.IamConfiguration.BucketPolicyOnly.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/Storage.Objects.Rewrite.html
*
/google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/Storage.Buckets.Update.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/model/GoogleLongrunningListOperationsResponse.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/class-use/AnywhereCaches.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/model/BulkRestoreObjectsRequest.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/class-use/Bucket.Website.html
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/google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/Bucket.Versioning.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/model/class-use/AnywhereCache.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/AnywhereCaches.html
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jar/target/apidocs/com/google/api/services/storage/Storage.ObjectAccessControls.Get.html
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/google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/Bucket.Owner.html
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* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/class-use/Folder.html
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* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/GoogleLongrunningOperation.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/Notifications.java
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* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/Notification.java
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1.112 reactive-streams 1.0.4

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1.113 asm 5.0.4

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*/
/**
   * Creates a new JSRInliner. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   *
  the <code>MethodVisitor</code> to send the resulting inlined
   *          method code to (use <code>null</code> for none).
   * @param access
   *          the method's access flags (see {@link Opcodes}). This
   *          parameter also indicates if the method is synthetic and/or
   *          deprecated.
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type}).
   * @param signature
   *          the method's signature. May be <tt>null</tt>.
   * @param exceptions
   *          the internal names of the method's exception classes (see
```

```
   *           {@link Type#getInternalName() getInternalName}). May be
   *           <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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/**
   * Constructs a new {@link Textifier}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #Textifier(int)}
   * version.
   *
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
```

```
    */
```

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* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-writer.properties
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* /asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
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/asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXAdapter.java
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* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
*
/asm-5-0-4-sources-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
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* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/AnnotationNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckFieldAdapter.java
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* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Value.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/util/ASMifier.java
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* /asm-5-0-4-sources-jar/org/objectweb/asm/signature/SignatureWriter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
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/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/Constant.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/AnnotationVisitor.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
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* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/Method.java
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* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/MethodNode.java
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* /asm-5-0-4-sources-jar/org/objectweb/asm/Type.java
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* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/NameMapping.java

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* /asm-5-0-4-sources-jar/org/objectweb/asm/Item.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/ConstantPool.java
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* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/JarOptimizer.java
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 /asm-5-0-4-sources-jar/org/objectweb/asm/signature/SignatureVisitor.java
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* /asm-5-0-4-sources-jar/org/objectweb/asm/ByteVector.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/InnerClassNode.java
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* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
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* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/FieldNode.java
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* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/Shrinker.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/ClassVisitor.java
*
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* /asm-5-0-4-sources-jar/org/objectweb/asm/MethodWriter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
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*/
/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
```

```
   * @param start
   *          the fist instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (inclusive).
   * @param end
   *          the last instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (exclusive). This
   *          array must have the same size as the 'start' array.
   * @param index
   *          the local variable's index in each range. This array must have
   *          the same size as the 'start' array.
   * @param desc
   *          the class descriptor of
 the annotation class.
   */
```

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*/

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* /asm-5-0-4-sources-jar/org/objectweb/asm/util/ASMifiable.java
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/**
   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *          the
 method visitor to which this adapter delegates calls.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */

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/**
   * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
   *          the method visitor to which this adapter delegates calls. May
   *          be <tt>null</tt>.
```

```
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */
```

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/**
   * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */

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1.114 angus-activation 2.0.3

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1.115 javax-ws-rs-api 2.0

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1.118 spring-retry 2.0.12

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1.119 jcifs 1.3.17

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1.120 logging-mailhandler 2.0.5

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1.121 jakarta xml bind api 4.0.4

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1.122 bcprov-jdk18on 1.79

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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

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/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
*
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
*
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/

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/**
* SPHINCS-256 signer.
*
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
* detached signatures.
*
*
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
*
*/

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/**
* An implementation of RFC 7253 on The OCB
* Authenticated-Encryption Algorithm. For those still concerned about the original patents
* around this, please see:
*
* https://mailarchive.ietf.org/arch/msg/cfrg/qLTveWOdTJcLn4HP3ev-vrj05Vg/
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/**
   * Magic value for proprietary OpenSSH private key.
   **/

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/**
* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
*
*
* NIST submission files
* License of reference implementation
*/

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/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see
* {@link org.bouncycastle.pqc.legacy.crypto.ntru}.
*

*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
*
*
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*
* @see NIST round 3 PQC submissions page
* @see NTRU website
* @see NTRU specification
*/

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// now keep space is free to use

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1.123 prometheus-metrics-exposition-formats 1.3.10

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1.124 animal-sniffer-annotation 1.23

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1.125 retries 2.27.21

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1.127 perfmark-api 0.27.0

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* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/PolicyOrBuilder.java

* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/logging/AuditData.java
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 /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/Policy.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/PolicyDelta.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/OptionsProto.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/TestIamPermissionsResponseOrBuilder.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/AuditConfig.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/SetIamPolicyRequestOrBuilder.java
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* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/PolicyProto.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/AuditConfigDelta.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/BindingOrBuilder.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/AuditLogConfigOrBuilder.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/SetIamPolicyRequest.java
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 /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/TestIamPermissionsResponse.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/BindingDelta.java
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* /proto-google-iam-v1-1-34-0-sources-1-jar/google/iam/v1/policy.proto
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1.130 prometheus-metrics-config 1.3.10

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1.132 mchange-commons-java 0.2.15

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1.136 mockito 5.17.0

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1.139 commons-compiler 3.1.12

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: unkrig.arno
Build-Jdk: 11.0.11
Automatic-Module-Name: org.codehaus.commons.compiler
Bnd-LastModified: 1707216437998
Bundle-Description: Janino is a super-small, super-fast Java compiler.
Bundle-License: https://spdx.org/licenses/BSD-3-Clause.html
Bundle-ManifestVersion: 2
Bundle-Name: commons-compiler
Bundle-SymbolicName: org.codehaus.janino.commons-compiler;singleton:=tru
e
Bundle-Version: 3.1.12
Export-Package: org.codehaus.commons.compiler;uses:="org.codehaus.common
s.compiler.util.resource";version="3.1.12",org.codehaus.commons.compile
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12"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-2.4.1.201501161923

Name: org/codehaus/commons/compiler/java8/java/util/function/Consumer.cl
ass
SHA-256-Digest: yyveVEyFFznSQYhk/ThAMZf9h4hrGi3QTjlXLTNPgwI=

Name: org/codehaus/commons/compiler/ICookable.class
SHA-256-Digest:
32vG7aPguRuIQEuUnKrVgxcWYJj6wxa0yRg8O+MeMrA=

Name: org/codehaus/commons/compiler/util/iterator/Iterables$State.class
SHA-256-Digest: cq2iXwXXF4h0cGl42a/DtDKq1OFc7Hl4lSzLWq+lH90=

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SHA-256-Digest: xrHfj5bARhpPoD0q2QUrpFqTs5rvD72CK2VotZPK3IQ=

Name: org/codehaus/commons/compiler/util/iterator/DirectoryIterator$Dire
ctoryNotListableException.class
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Name: org/codehaus/commons/compiler/util/resource/JarDirectoriesResource
Finder$1$2.class
SHA-256-Digest: Badfbk+GLhfOujROgVRVwitdcKonh8BIOXqqTo8AzHQ=

Name: org/codehaus/commons/compiler/CompilerFactoryFactory.class
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Name: org/codehaus/commons/compiler/util/iterator/Iterables$4.class
SHA-256-Digest: xXJlzCKs5uZYOQDFoTtc5z9y77C5gAi2pOrACvSyo+E=

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Name: org/codehaus/commons/compiler/Cookable.class
SHA-256-Digest: eSnwt08DTCm3367vcjdhYdzGZNB+UcjwieEisRlmm/w=

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SHA-256-Digest: tpVRkNN9D+lPiEvSt9Om32dvWcUDRJdEpJbDI67hjUs=

Name: org/codehaus/commons/compiler/util/iterator/UniterableElementExcep
tion.class
SHA-256-Digest: q2MReObp0oubyls2AJSVd7qcUl/wRzmAGo7iYrFRS1c=

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SHA-256-Digest: jz6uADyIyhKkwEwr5AoAG7qXZWAciFGJ5pXkbz3RYtw=

Name: org/codehaus/commons/compiler/IScriptEvaluator.class
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Name: org/codehaus/commons/compiler/ICompiler$1.class
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Q+4u8zHT6hT0OaVNVyqI6T9QLhDdOL+MkRHAuAFllXM=

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SHA-256-Digest: 3RP06upgNA3K+Po7P+UINCgiMVw2fXG6+XrH74X4/aw=

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o.class
SHA-256-Digest: 24j2YGIrnZujbyNadDNASLhAUslfS/NAyIxXr62P4vY=

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SHA-256-Digest: QBhMIMOVikz9/zTz/6E6/xvjKCcmv83UNAwfAIo19t4=

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SHA-256-Digest: 5uHSDKinpa0IzSsC2bltAxwPELAJVDmTAmIxhO4T40Q=

Name: org/codehaus/commons/compiler/util/iterator/DirectoryIterator.clas
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SHA-256-Digest: W8HpUGbUvlNzwtJQk4vI+2MCCHjTPNoCkG2gQJwgZqI=

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SHA-256-Digest: 54LcZZdQIrSL5UIuDyUaOrDL4ydN0Qadz4seNHY9QhI=

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Name:
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SHA-256-Digest: XUgeTVaI1q2fVV4dC2yXrYqINeZowXlfsAwhLXXoZKI=

Name: org/codehaus/commons/compiler/lang/ClassLoaders.class
SHA-256-Digest: FBvOKR7DdXl3Qca3hKrJR7G6k422znxBzf3YclWrGhQ=

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SHA-256-Digest: 4uVNpErKx5gvdI69PT3FFAPnQQ9Hy2pVbaDVVVTgn6U=

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Finder.class
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Name: org/codehaus/commons/compiler/samples/ShippingCost.class
SHA-256-Digest: LiNzMk/rK0NemVRXE5Dg65CTnjgQsaYoAuP0f94fkP4=

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Name: org/codehaus/commons/compiler/util/iterator/MultiIterator.class
SHA-256-Digest: cRgFefRnXlsNURvvPqYgooOdCZxBut11CeuD1VyFUr0=

Name: org/codehaus/commons/compiler/util/resource/LazyMultiResourceFinde
r.class
SHA-256-Digest: /UtG2BD5RORAmzpTp8zGQJSlvuV0+ZBGuH6gsNFDRUk=

Name: org/codehaus/commons/compiler/util/resource/MapResourceFinder$1.cl
ass
SHA-256-Digest: 46x2Qcs9xOpDKnNLWXtw6LnpiQV2ErmEPvowZeAodD4=

Name: org/codehaus/commons/compiler/lang/ClassLoaders$2.class
SHA-256-Digest: bwtOZyX4sv2yIUNym2xSWMOZ9uK1ULIuZjIiw+MtRe8=

Name: org/codehaus/commons/compiler/io/Readers$4.class
SHA-256-Digest: jOByYwIBQkvS4yvNmyVP5iSrahk97cK2VgJrI3g5nIg=

Name: org/codehaus/commons/compiler/util/resource/package-info.class
SHA-256-Digest: So/SohYI3ApHYTN6LKQFYx8XEGYTd5n8Xe+DzYAXXig=

Name: org/codehaus/commons/compiler/util/resource/DirectoryResourceFinde
r.class
SHA-256-Digest: mmPEvjAFzmQGRMvcv3Wf8/H+xtICeFhhm7eK2UpjiHg=

Name: org/codehaus/commons/compiler/InternalCompilerException.class
SHA-256-Digest:
NbSZ50IPM8VliOnV3CC5RP86FGl+jWQDpqa2dh6Nfl4=

Name: org/codehaus/commons/compiler/util/reflect/Proxies$1.class
SHA-256-Digest: AKUpWgYX5160damRTi6fTou1xNuYZFAqYcOJUwmCTnE=

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SHA-256-Digest: lBLO3PISw9rFLn9W36rP//LTdIosq3O5MsiaMSyCXdY=

Name: org/codehaus/commons/compiler/lang/ClassLoaders$3$1.class
SHA-256-Digest: A2IL/oDadQcS2N/cRCsd/vixYl/UhoP+eZgntzhBXIg=

Name: org/codehaus/commons/compiler/AbstractJavaSourceClassLoader$Protec
tionDomainFactory.class
SHA-256-Digest: zR+g4+6UU61cOD1QKpiC0bLQ6UzsAmUVs8uqG2DHWjI=

Name: org/codehaus/commons/compiler/samples/package-info.class
SHA-256-Digest: TpFegjd0zcgyuM9fG7+wf1Sl3SBAgH0OTntXkLPdX+A=

Name: org/codehaus/commons/compiler/util/reflect/NoException.class
SHA-256-Digest: EEOUtQZVgufQcUDUzA+TRA02MDLK28ABKHn1AjBNJO4=

Name: org/codehaus/commons/compiler/util/Benchmark$Reporter.class
SHA-256-Digest: lj/jmnOX43C786kuFqlPeMLnMNv3wk93N+R7LEUQeZU=

Name:
org/codehaus/commons/compiler/util/resource/LocatableResource.clas
s
SHA-256-Digest: NkU4xSsGceZP+NMgtTYIJV4XyHVgtpof9eo+gRuBjxY=

Name: org/codehaus/commons/compiler/util/iterator/Iterables$2.class
SHA-256-Digest: AF1qBZtVir3z1FQ2kRI/wseoOvuAH5eYilidy1VLoGw=

Name: org/codehaus/commons/compiler/io/Readers$3.class
SHA-256-Digest: dxVnSlbHmFb6/eOZNAEDMaDVLWXxDHCUfPdT8CtAUl8=

Name: org/codehaus/commons/compiler/lang/ClassLoaders$1.class
SHA-256-Digest: BC8qYSvHd9vY/PPHSYKEYJCHzEyfb7ldZBgsuTcZG7Q=

Name: org/codehaus/commons/compiler/java8/java/util/function/Consumers$1
.class
SHA-256-Digest: +BsdwiNshdXIoXo86OS5eKFwfM9sUcsRMCE/nLaXPh4=

Name: org/codehaus/commons/compiler/util/resource/FileResourceCreator.cl
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SHA-256-Digest: hVapZemhwfEXUn4ac64TVdiUilVMUPG2g1y1uZDcSE8=

Name: org/codehaus/commons/compiler/util/resource/MapResourceFinder$2.cl
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SHA-256-Digest: wwAA9e8ii8exp4zwKqSeMnwBLfwwhigzmxIYiB0oSY8=

Name: META-INF/maven/org.codehaus.janino/commons-compiler/pom.properties
SHA-256-Digest:
OojNHPtP4Qx/1AQMuOPV3K+Mze0dSOZQoit/JwR4r4c=

Name: org/codehaus/commons/compiler/IClassBodyEvaluator.class
SHA-256-Digest: me7O9Y5d9BKRdRFJROmU/PrWUEGbBL0Prg6xkdTO6nE=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinder$1.class
SHA-256-Digest: htFfyuC21xrOJOLYFh0mrHkCQfOjzCvW4j8Y/02SRlo=

Name: org/codehaus/commons/compiler/util/iterator/TraversingIterator.cla
ss

SHA-256-Digest: cG5Vi2pMS6XgSSadOtaFKsCQ70x8edG4Kjhxm9CBt6c=

Name: org/codehaus/commons/compiler/samples/ClassBodyDemo.class
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Name: org/codehaus/commons/compiler/util/iterator/IteratorCollection$1.c
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SHA-256-Digest: PUsSBL1RPUQjFDOnQqLEsBFwjUEqj36aqx4YrUqx8Gc=

Name: org/codehaus/commons/compiler/util/iterator/MultiDimensionalIterat
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SHA-256-Digest: ByAMXrWz1pywojfID83/0txlEinv2iQRFZg8kp+8R24=

Name: org/codehaus/commons/compiler/util/LineAndColumnTracker.class
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SHA-256-Digest: ckonoGZRo9dGxsH5RgSaJC5aOl/iGKR6FsKtEjGxE48=

Name: org/codehaus/commons/compiler/IExpressionEvaluator.class
SHA-256-Digest: dUJlKL6ZflMchAZR64zPkFEWBIV8cYQRszB28tfUFOE=

Name: org/codehaus/commons/compiler/Location.class
SHA-256-Digest: ncdXUj4FBCmKQ7o+0wt0sbctEjUOR4FCCvidxLx/dYs=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinders$1.clas
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SHA-256-Digest: UjjEm4uDeVfU+KnTtoNWHjmsJ60TwhK0uWJ6uIREEuU=

Name: org/codehaus/commons/compiler/IMultiCookable.class
SHA-256-Digest: Er2fAVQ9gBdUgHPw1W+UPENWF5As8EIytfYawXNq2Uo=

Name: org/codehaus/commons/compiler/java8/java/util/package-info.class
SHA-256-Digest: fFVZJl03fcO1loQDdzsE83DpCpzuurzbgvcVemHTJHk=

Name: org/codehaus/commons/compiler/util/Producer.class
SHA-256-Digest: jvb44Ya4BrDZxty4fqsWe3noksi4iAFxvHtsFmjofWM=

Name: org/codehaus/commons/compiler/ICompiler$2.class
SHA-256-Digest: si5f3R8haA+j4Wi2uorNgKyJukPNZmiJRv81hxgm1CA=

Name:
org/codehaus/commons/compiler/package-info.class
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Name: org/codehaus/commons/compiler/util/resource/PathResourceFinder$1.c
lass

SHA-256-Digest: dxPSHpVFS/57wzUbQ81tepv1JfnRiuvPpxbYDNd6y7A=

Name: org/codehaus/commons/compiler/util/resource/ListableResourceFinder
.class
SHA-256-Digest: vTesI9l+7efRN/LKdCH7DUYacEe5WE2UIYm38EKNv3s=

Name: org/codehaus/commons/compiler/samples/CompilerDemo.class
SHA-256-Digest: dqLwQNd2dK9yH9vaRHiEvucwLzhCp5NI2HiaamtQWR8=

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Name: org/codehaus/commons/compiler/io/Readers$2.class
SHA-256-Digest: L7/kQpRVycMyAG4FFNh7d2iMt5Jzpq5nTApQsbBucEk=

Name: org/codehaus/commons/compiler/AbstractCompilerFactory.class
SHA-256-Digest: xMuC5AGMazavoPychGQ50aO8zUoomAIc5/znPaUm5T8=

Name: org/codehaus/commons/compiler/util/resource/Resource.class
SHA-256-Digest: 8wWK9rWF796+mRllHfZunNGWhqaBpnJcb85Goi8l17U=

Name: org/codehaus/commons/compiler/util/reflect/ApiLog.class
SHA-256-Digest: U6pUX63nFLE/Cd1cnK7ykjFJ4pkt/4JyQTvBUA8KeEA=

Name: org/codehaus/commons/compiler/util/Benchmark.class
SHA-256-Digest: 0j71zOYfv+3Q/TL5VnCRI/mrjbasPuRtmbZsc/oN6hY=

Name: org/codehaus/commons/compiler/util/reflect/Classes.class
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Name: org/codehaus/commons/compiler/util/iterator/package-info.class
SHA-256-Digest: nUfKAGwAmGnRd++1P7sgHLBTZASpPtJqy2XSfLkqO6A=

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SHA-256-Digest: Qz/H3/NnWZiz9kv+vET1yu2zkigZ092Oi+qgqX0yoGM=

Name: org/codehaus/commons/compiler/lang/ClassLoaders$3.class
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Name: org/codehaus/commons/compiler/util/iterator/Iterables.class
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Name: org/codehaus/commons/compiler/MultiCookable.class
SHA-256-Digest: SAKw5alTn/OI4x9ycA33I+rtJd8386T9lfORG/Puns4=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinders.class
SHA-256-Digest: sp/qKLc7WHRlItLK+GeCZK0gqXYjt15SltvtPDL0KXI=

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SHA-256-Digest: iuxi0gtsbwHdhGcvvHXB2ZwI1i5NGS9WUv0FdVXv6T4=

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SHA-256-Digest: /+thSN7/idRqf8CNwLz08cHtmAaqKpFWqCZEuTMRr0c=

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Name: org/codehaus/commons/compiler/samples/DemoBase.class
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Name: org/codehaus/commons/compiler/lang/package-info.class
SHA-256-Digest: EqKZiOPNP2EG/RQBp6yl+2j/MfigO0HE2+XeOSjb+cQ=

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SHA-256-Digest: Dmm/9J3q70H+ohm1oZW8T/lpxWXYka8IZl/eVTFdjpE=

Name: org/codehaus/commons/compiler/util/resource/ZipFileResourceFinder.

class
SHA-256-Digest: sOphxLr5U2orDT8VC8hnSJ5Ap4Fs157GThHNz4oClgo=

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SHA-256-Digest: C9LbdyBRHMiPnMOdSppWv5Wr7oa6tZ7Warw8w+c/qfc=

Name: org/codehaus/commons/compiler/AbstractJavaSourceClassLoader.class
SHA-256-Digest: AL929CU0G8T0y6Perz9FMMIjBa/RooBb8Se7HC+hG4Y=

Name: org/codehaus/commons/compiler/util/reflect/ApiLog$1.class
SHA-256-Digest: ZNuC3cywNn0vlqZQxVQzjgdrXiNatizEcZvspeJ0htM=

Name: org/codehaus/commons/compiler/util/Benchmark$1.class
SHA-256-Digest: 3EOtYw0o0CkK0PJSq5NISlxRvhY5FriwOqBZZELbstE=

Name: org/codehaus/commons/compiler/ErrorHandler.class
SHA-256-Digest: bgYLFtUx61nbqZvjuGYdIXs1P/0sftEcyreBXqGfej0=

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SHA-256-Digest: SEW5e7l++Y1k7OeDaN5S4UYt1CpzoP/8R3XKc/dB0Io=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinders$4.clas
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SHA-256-Digest: YjS7jWfLzjUBhPloJjzYluTw7l06QzgyfRT78rYAvQw=

Name: org/codehaus/commons/compiler/samples/ScriptDemo.class
SHA-256-Digest:
g2nL2OzC6Ey05cJNjJMVyD+6EvM8yAjhJXZMNgyi/2I=

Name: org/codehaus/commons/compiler/util/resource/ZipFileResourceFinder$
1.class
SHA-256-Digest: HdsrK6I+aKU95gI2ibJTkixBpyrc/85ZZWg9BuqtPF4=

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Name: org/codehaus/commons/compiler/util/iterator/DirectoryIterator1St
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Name: org/codehaus/commons/compiler/util/StringPattern.class
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Name: org/codehaus/commons/nullanalysis/NotNull.class
SHA-256-Digest: k9YrBG/+DemF1QfxI+dDJ5P0MU7CkEDFntxYMbyV3AY=

Name: org/codehaus/commons/compiler/io/Readers.class

SHA-256-Digest: go0B+M5FQNIPLHiOx+TFzp92k0xq11P2sRKagE82Swo=

Name: org/codehaus/commons/compiler/util/resource/PathResourceFinder.cla
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SHA-256-Digest: k/VEMCAeSL/tmIirtbZFjR5A3doIpZqQ6qn5qxd+6KA=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinder.class
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Name: org/codehaus/commons/compiler/io/Readers$1.class
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SHA-256-Digest: k6E2eHaJkpny9dqcVEy/WMqCsFDA65Aqgqj/enWeXuE=

Name: org/codehaus/commons/compiler/util/ResourceFinderClassLoader.class
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Name: org/codehaus/commons/compiler/util/iterator/MultiDimensionalIterat
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Name: org/codehaus/commons/compiler/util/resource/DirectoryResourceCreat
or.class
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Name: org/codehaus/commons/compiler/java8/java/util/function/Consumers.c
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Name: org/codehaus/commons/compiler/ISimpleCompiler.class
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Name: org/codehaus/commons/compiler/util/resource/JarDirectoriesResource
Finder$1$1.class
SHA-256-Digest: 0JNEzu68SHOTz3VPiC1wylZXtYCt0EAikHznsbUjpwM=

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Name: org/codehaus/commons/compiler/LocatedException.class
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Name:
META-INF/maven/org.codehaus.janino/commons-compiler/pom.xml
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Name: org/codehaus/commons/compiler/samples/ExpressionDemo.class
SHA-256-Digest: mP1rzusynCzmHGYn7112pk4GBd23kLmFGMeSJJ74LYc=

Found in path(s):
* /commons-compiler-3-1-12-1-jar/META-INF/MANIFEST.MF

1.140 prometheus-metrics-exposition-textformats 1.3.10

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  */

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1.143 snake-yaml 2.4

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* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/parser/ParserException.java
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* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/reader/UnicodeReader.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java
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* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/util/Tuple.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/constructor/CustomClassLoaderConstructor.java
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* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/Escaper.java

1.144 jax-ws-api 2.3.1

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1.145 jacoco-report 0.8.11

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 17
Automatic-Module-Name: org.jacoco.report
Bnd-LastModified: 1697316822529
Build-Jdk: 17.0.8.1
Built-By: root
Bundle-Description: JaCoCo Report
Bundle-License: https://www.eclipse.org/legal/epl-2.0/
Bundle-ManifestVersion: 2
Bundle-Name: JaCoCo Report
Bundle-RequiredExecutionEnvironment: J2SE-1.5
Bundle-SymbolicName: org.jacoco.report
Bundle-Vendor: Mountainminds GmbH & Co. KG
Bundle-Version: 0.8.11.202310140853
Eclipse-SourceReferences: scm:git:git://github.com/jacoco/jacoco.git;pat
h="org.jacoco.report";commitId=f33756c37f1e41041d84018047b14cb394742761
Export-Package: org.jacoco.report.internal;x-internal:=true;version="0.8
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12)",org.jacoco.report.internal.html.index;version="[0.8.11,0.8.12)",or
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ternal.xml;version="[0.8.11,0.8.12)",org.objectweb.asm;version="[9.6.0,
9.7)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.5))"
Tool: Bnd-3.5.0.201709291849

Found in path(s):
* /org-jacoco-report-0-8-11-2-jar/META-INF/MANIFEST.MF
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  Contributors:
     Evgeny Mandrikov - initial API and implementation
-->

Found in path(s):
* /org-jacoco-report-0-8-11-2-jar/META-INF/maven/org.jacoco/org.jacoco.report/pom.xml
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* /org-jacoco-report-0-8-11-2-jar/org/jacoco/report/internal/html/resources/prettify.js

1.146 spring-security-jwt 1.0.9.RELEASE

1.146.1 Available under license :

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1.147 grpc-protobuf 1.62.2

1.147.1 Available under license :

Apache-2.0

1.148 gson 2.13.2

1.148.1 Available under license :

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* /gson-2-13-2-sources-jar/META-INF/maven/com.google.code.gson/gson/pom.xml
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/opt/cola/permits/1701353823_1761207053.5308793/0/gson-2-13-2-sources-jar/com/google/gson/stream/MalformedJsonException.java/*
/opt/cola/permits/1701353823_1761207053.5308793/0/gson-2-13-2-sources-jar/com/google/gson/stream/package-info.java/*
/opt/cola/permits/1701353823_1761207053.5308793/0/gson-2-13-2-sources-jar/module-info.java/*

Found
in path(s):
*

1.149 grpc-rls 1.62.2

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Found in path(s):
* /grpc-rls-1-62-2-2-jar/grpc/lookup/v1/rls.proto
* /grpc-rls-1-62-2-2-jar/grpc/lookup/v1/rls_config.proto

1.150 woodstox 7.1.1

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1.151 commons-collections 4.5.0

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*/
```

1.152 janino 3.1.12

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```
Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: unkrig.arno
Build-Jdk: 11.0.11
Automatic-Module-Name: org.codehaus.janino
Bnd-LastModified: 1707216473825
Bundle-Description: Janino is a super-small, super-fast Java compiler.
Bundle-License: https://spdx.org/licenses/BSD-3-Clause.html
Bundle-ManifestVersion: 2
Bundle-Name: janino
Bundle-SymbolicName: org.codehaus.janino.janino;singleton:=true
Bundle-Version: 3.1.12
Export-Package: org.codehaus.janino;uses:="org.apache.tools.ant.taskdefs
.compilers,org.codehaus.commons.compiler,org.codehaus.commons.compiler.
util,org.codehaus.commons.compiler.util.resource,org.codehaus.janino.ut
il";version="3.1.12",org.codehaus.janino.samples;uses:="org.codehaus.co
mmons.compiler,org.codehaus.janino,org.codehaus.janino.util";version="3
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til;uses:="org.codehaus.commons.compiler,org.codehaus.janino";version="
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Import-Package: org.apache.tools.ant.taskdefs;resolution:=optional,org.a
pache.tools.ant.taskdefs.compilers;resolution:=optional,org.apache.tool
s.ant.types;resolution:=optional,org.codehaus.commons.compiler;version=
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3.1,4)"
Provide-Capability: osgi.serviceloader;osgi.serviceloader="org.codehaus.
commons.compiler.ICompilerFactory"
Require-Bundle: org.codehaus.janino.commons-compiler
Require-Capability: osgi.extender;filter:="(&(osgi.extender=osgi.service
loader.registrar)(version>=1.0)(!(version>=2.0)))",osgi.ee;filter:="(&(
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Tool: Bnd-2.4.1.201501161923

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SHA-256-Digest: OhFSTj6e5N2kZfgJdQ6AI4hKMO3zfabM0me3k0fpDSg=

Name: org/codehaus/janino/IClass$1.class
SHA-256-Digest: Yrk2Ls+qNEaM9zSLia065qbWbBzz63ROEGN4QKLLT/c=

Name: org/codehaus/janino/CodeContext$LocalScope.class
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SHA-256-Digest: AxZpF4H5YUXi4/x74Xn8XtbAOpkBW78dk6ZBpOPLyhY=

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lass
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SHA-256-Digest: fr1QEyGrGRb/+SLZeAyyPXrAfHPX4vBgw8oSmc9BYbw=

Name: org/codehaus/janino/Java$CatchParameter.class
SHA-256-Digest: gOVPIm41NxSqXn7YdGHJbZVkWVz7kcxu3XkTR7KDbKQ=

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Name: org/codehaus/janino/Java$RequiresModuleDirective.class
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Name: org/codehaus/janino/Visitor.class
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Name: org/codehaus/janino/UnitCompiler$SwitchKind.class
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Name: org/codehaus/janino/Java$Crement.class
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SHA-256-Digest: prFpeSMsPW5+UvxirUIGdafUnmiN9doHzCpML1yZNSk=

Name: org/codehaus/janino/Java$LocalClassDeclarationStatement.class
SHA-256-Digest: 6TJRJgk+412gNfQcu1ZmudRWDRPmiRHh6k/YWdGTXpQ=

Name: org/codehaus/janino/Java$DoStatement.class
SHA-256-Digest:
dpk5onuDwRNcDl1i+GmvP7u5QvdbKpXYY2GxzTXhz74=

Name: org/codehaus/janino/Java$LambdaExpression.class
SHA-256-Digest: OKC3RL+moKU5cogc7AtEivscq3oyp0zQkkT8c/F8q9Y=

Name: org/codehaus/janino/util/DeepCopier$14.class
SHA-256-Digest: +ujmf/IrjRR0p/EoVKN7DMs+Z57mwJW9dqf2O+F6r/8=

Name: org/codehaus/janino/Java$AbstractAnnotation.class
SHA-256-Digest: 9hDnHtGS7EvzvwrBW9sDz0m4MlT8rE8aQAy/7U20H3w=

Name: org/codehaus/janino/Java$SimpleConstant.class
SHA-256-Digest: enhgmHehsbvBZuoGoMKmBRLyJaH17KfjbpRJUupJCw4=

Name: org/codehaus/janino/SimpleCompiler$2.class
SHA-256-Digest: 92cmHLsOMT3KyvDK5i31TXfVlOQVV8NMwncs+agg0Q4=

Name: org/codehaus/janino/util/DeepCopier$6.class
SHA-256-Digest: /1DxJrW5a7f5UA8h2CAslvmuYZCJZVTvg6UZBTP5amg=

Name: org/codehaus/janino/Java$MethodDeclarator.class
SHA-256-Digest: JoW0uQUEH23x8alIgW70mXT0LilqXytfoXQJjlyJ2o0=

Name: org/codehaus/janino/Java$AbstractCompilationUnit$SingleStaticImpor
tDeclaration.class
SHA-256-Digest: tg7ZGm6qs3obTN7x6u6FkBGItEivVUKT44gg1+pziBc=

Name:
org/codehaus/janino/Java$EnumConstant.class
SHA-256-Digest: mt97v7IB4RtbDbGzm3ovo7uqCl+WIBSnh3qBRpx1ick=

Name: org/codehaus/janino/util/AbstractTraverser$10.class
SHA-256-Digest: KATysAVa1Y9JtAbUPJfgCS4aHSjIMN4hjJBxSBBM3UQ=

Name: org/codehaus/janino/util/charstream/package-info.class
SHA-256-Digest: 8+DmwWYRNX9qF9nBUeORyHnKCJxoEX2PS4q3MV0Go3o=

Name: org/codehaus/janino/UnitCompiler$Compilable2.class
SHA-256-Digest: 1YW3CaYw5VPK1lrjr6UE8o7lKD7ZY8EjDkgDTPgthFI=

Name: org/codehaus/janino/util/Annotatable.class
SHA-256-Digest: kAhf6MOHHkP8k+pLb7zzYOauUtkDe8Uaw0X5qG+EDKs=

Name: org/codehaus/janino/Java$UnaryOperation.class
SHA-256-Digest: UFF8MEGhNAvr9Ad+lAHnogBkV3s28zXt+SA0ykRPKN4=

Name: org/codehaus/janino/JavaSourceClassLoader$1.class
SHA-256-Digest: yVV9YnB58nTpRCsOC4BZ9Jw5Zsv/NS7RX5C1sYav4wc=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$SameLoca
ls1StackItemFrame.class
SHA-256-Digest: VnJwTb/mEuTf4tqBbfBYnn2IMit8jjNiZOxynU9nZeA=

Name:
org/codehaus/janino/Java$AbstractTypeDeclaration.class
SHA-256-Digest: 6qQWOCYUDGgBnjyW8WZB3kqwJLwON0JrWXiyQwFQeQQ=

Name: org/codehaus/janino/Java$ModuleDirective.class
SHA-256-Digest: whIVIwIAFrEvDLQwJlLR24gpIQLdpbgI0wkFqiuOjZs=

Name: org/codehaus/janino/ClassBodyEvaluator.class
SHA-256-Digest: vfsBX6M79dcz1NVtnZMw5gYb9EQ45DBzjZ8ADLZH3xA=

Name: org/codehaus/janino/FilterWarningHandler.class
SHA-256-Digest: GyTOX7BRUpBhvPstQpSpqmZgNqO0qc1goz5p4OHwQL0=

Name: org/codehaus/janino/Visitor$LvalueVisitor.class
SHA-256-Digest: VS/YAMKWizpF1t8/dZop80NudH6wxw8nyUEm/bWaoA4=

Name: org/codehaus/janino/Java$OpensModuleDirective.class
SHA-256-Digest: OXb3PEF9wmgmUoi8/5FH30liQe7+WnNdUSCZuFvA+M8=

Name: org/codehaus/janino/Java$AssertStatement.class
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Name: org/codehaus/janino/Java$AbstractClassDeclaration.class
SHA-256-Digest: vKB1jao6laYtbYiiNaK7RLUvLxibpGrJyUD1DDdvORk=

Name: org/codehaus/janino/UnitCompiler$16$1.class
SHA-256-Digest:
7QRKkajbqevz3tTwughZfABXCIr6vWFapRBztPTnQLY=

Name: org/codehaus/janino/util/DeepCopier$12.class
SHA-256-Digest: 7v1GvZUfBZhtXSEPBNlNnipLXRdOqU6G5ODptWBQaww=

Name: org/codehaus/janino/Java$FunctionDeclarator.class
SHA-256-Digest: 9Ns3EUMi3vyNRthfFe5N2SM4OR8lSgYS9uSRUnAfMWs=

Name: org/codehaus/janino/Java$ProvidesModuleDirective.class
SHA-256-Digest: LFR+ayl22PVOhIFr0WsuoanJoNQI7GJ6B8TwKf+kqnU=

Name: org/codehaus/janino/Java$Located.class
SHA-256-Digest: uv2T9ySM3zDZW6yzfGPhTJkN9X0tOvxr5vpxuCmzQY4=

Name: org/codehaus/janino/util/ClassFile$ConstantIntegerInfo.class
SHA-256-Digest: 50HLTVpipoXiCXnvhK2HSHXShFmKTOHl2P062R9Z0/w=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$7.class
SHA-256-Digest: UomHgTPsDqjcDUTAlfHViA1qTJvU/HcBXVY1Tc48D9U=

Name: org/codehaus/janino/Java$UsesModuleDirective.class

SHA-256-Digest: HJ2FhYkG1sl7N8V+D6DiXaJImWcSzaPzS0M6Kqaxoxw=

Name: org/codehaus/janino/Java$BreakableStatement.class
SHA-256-Digest: Mh6YUwh3FWYuXgMZkIw+VcYH2y06ZhyYmYIkW4XNkBw=

Name:
org/codehaus/janino/Compiler$4.class
SHA-256-Digest: MvkKdgo+8Ylp0JYGz9s6qvGvIBhlRaFe5pSBcdCZMeI=

Name: org/codehaus/janino/Java$Type.class
SHA-256-Digest: vn8Xftrh48xGQEkWbFAs/ksAbAHpAbTfzrKH2/Ba4i8=

Name: org/codehaus/janino/samples/DeclarationCounter.class
SHA-256-Digest: xO5w7Ith06+Oc3HuX+JIzVOIUuQE2tkd5qRM86z916U=

Name: org/codehaus/janino/util/DeepCopier$8.class
SHA-256-Digest: L+E/RFdmPOnOu15OsdznDIBd4Opqpq4aLCfVeYOPURE=

Name: org/codehaus/janino/UnitCompiler$30.class
SHA-256-Digest: kH8nhN7PMvizQ2cdHPkdfPbAVPuFvVTktKN01Ojk4V8=

Name: org/codehaus/janino/util/ClassFile$ArrayElementValue.class
SHA-256-Digest: 5GV6t6PWBWCgHawQyIT6yTYEBmkj3R69AacucrVKLCs=

Name: org/codehaus/janino/JavaSourceIClassLoader.class
SHA-256-Digest: i+E3mhf1fQhiuMDfZMPu/gK3SlOrJt7mmNWTsDv//iw=

Name: org/codehaus/janino/util/ClassFile$InnerClassesAttribute.class
SHA-256-Digest: rI307bj9eO6LSrRcSuK+LNZs37S7qLosGbNWtA5ihB4=

Name: org/codehaus/janino/Java$ModuleDeclaration.class
SHA-256-Digest:
zq9LFz4x5hjeeb+GTr0nJrNESEgMX/T2tqrUs8ilypU=

Name: org/codehaus/janino/UnitCompiler$28$2$1.class
SHA-256-Digest: I6qkA7qLAaCwVGJBiADAl/t706p1nMLGoTzIKOT81qw=

Name: org/codehaus/janino/util/AbstractTraverser$2.class
SHA-256-Digest: Sc66KYHIBKxC3ue+Uux+lzX+aFtn0Io0yuOqigkAGz8=

Name: org/codehaus/janino/tools/HprofScrubber$Sample.class
SHA-256-Digest: 6NXzmTtIzrkVOUX+sAiygvy4H6b9P3EaIGrB3y2lfBw=

Name: org/codehaus/janino/Java$ElementValuePair.class
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Name: org/codehaus/janino/Java$ArrayLength.class
SHA-256-Digest: r9g8VPraERpI5cefMWMYIMwSUaaxgdtHgPL5oII2vx8=

Name: org/codehaus/janino/Java$TypeParameter.class
SHA-256-Digest: Bn9OBfjhwW4bn3MO4ozlp/+LPZtagfDoU6AltCxIHoM=

Name: org/codehaus/janino/UnitCompiler.class
SHA-256-Digest: lpRdEsdRoBhgLFRI3V0eE7PUOxTWt5XWXzgdW+VeOSk=

Name: org/codehaus/janino/Java$TryStatement$VariableAccessResource.class
SHA-256-Digest: hXXOP9pe9mht68JZ+enKdxPVOfS45o0wi6wzlDiRD4k=

Name:
org/codehaus/janino/Unparser$2.class
SHA-256-Digest: 0d6eqQu9orUr2G3+VST5XRCZ/74MVntvVnZ6hCnPeRQ=

Name: org/codehaus/janino/Java$AnonymousClassDeclaration.class
SHA-256-Digest: Mh5nVdY34zDm3edMn+B6A6Z37pqqQ4E0/ODIC8BQZlU=

Name: org/codehaus/janino/Java$ExportsModuleDirective.class
SHA-256-Digest: ZcXSzNKrbky4eg5OqoWiAGdb28Szm6qlcJCwyT8vb5Q=

Name: org/codehaus/janino/Java$ReferenceType.class
SHA-256-Digest: 3g6ZsN7siyqdc/kw3HRFlu3i6ofy/xZqX/H0Brh9/68=

Name: org/codehaus/janino/util/signature/SignatureParser$ArrayTypeSignat
ure.class
SHA-256-Digest: psx02yrn0x+kdWbOSUrMmqvQnEGqsobxm2jyiQ1U99A=

Name: org/codehaus/janino/util/AbstractTraverser.class
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SHA-256-Digest: Ipe1yE2vUmzRWlOakZKdxkXALyD/0ZvFye1hqJBB+9c=

Name: org/codehaus/janino/Parser$MethodDeclarationContext.class
SHA-256-Digest:
jatsmjHogAFaMNJS9J7ZqxsvHzoTirTZmruC8KFR/Bo=

Name: org/codehaus/janino/UnitCompiler$24.class
SHA-256-Digest: QtLTUndql0qNUJvpdu/Dhyk6tlP5KBEAyafpk7vnEeU=

Name: org/codehaus/janino/ReflectionIClass$ReflectionIMethod.class
SHA-256-Digest: 4SAYm1AlZkgEm9vGaLTPa82AGS8V4i3Ns5j1svVz3GY=

Name: org/codehaus/janino/util/ClassFile$LineNumberTableAttribute$Entry.
class

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SHA-256-Digest: dMSrHkax0/ZH6Dwki1ZeJKo/9EMliI82iOSjVJmgAqQ=

Name: org/codehaus/janino/UnitCompiler$3.class
SHA-256-Digest: tD7bISdKwW6YwgNzB+017UIbSCfkkFagW14/k8hv7C0=

Name: org/codehaus/janino/util/signature/SignatureParser$MethodTypeSigna
ture.class
SHA-256-Digest: X82bqlAdAy85rnn6hgCMusghZjwsq60EWGgjCU6acSM=

Name: org/codehaus/janino/Java$InnerClassDeclaration.class
SHA-256-Digest: FVTOaaezwUOtLQUxtgM11kbGm2s+Z4qaHBQyO4GvpIg=

Name: org/codehaus/janino/Java$EnclosingScopeOfTypeDeclaration.class
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WseRyhHzYF7l+Pdjop0SKTog1/yDPs5vRUB9fFcL2Kw=

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Name: org/codehaus/janino/util/ClassFile$ConstantMethodrefInfo.class
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Name: org/codehaus/janino/Java$BreakStatement.class
SHA-256-Digest: fKzQ4jXbhkbm8PrnRqViPMS6Jio/94Ol4P29sCqa5Nw=

Name: org/codehaus/janino/UnitCompiler$18.class
SHA-256-Digest: ssLxJu/Hp+M+MX++D5fpR7r9JNXBogw9RpFdX0vr7JQ=

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Name: org/codehaus/janino/Java$Package.class
SHA-256-Digest: JXAUhRTjaLxmNfJgfEvr1kBmnAZ7XYKZtwAKlHaR5GA=

Name: org/codehaus/janino/UnitCompiler$9.class
SHA-256-Digest: ze/mjGrkvWzPKPlycY00ppomGyESK8Z+GhVrmMHfv4I=

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org/codehaus/janino/Java$AmbiguousName.class
SHA-256-Digest: 28PqHza6oNF1xthIWzDyC9fdCLhYZCtxiJuNZRxW0yM=

Name: org/codehaus/janino/UnicodeUnescapeException.class

SHA-256-Digest: IYsRGOywvJjhU34iHRNUkYTgTzVCkUPksckasCrdxZ8=

Name: org/codehaus/janino/Java$ElementValueArrayInitializer.class
SHA-256-Digest: qqvB7OvEpSwrxzIDqWmI5qyQUHgE+JckdsMRFWAlxTg=

Name: org/codehaus/janino/Java$PrimitiveType.class
SHA-256-Digest: CkjnsRVzyJ/bjDqpeSWJXO0sjpJbP/355Uih8wZfctc=

Name: org/codehaus/janino/UnitCompiler$ClassFileConsumer.class
SHA-256-Digest: HLbGPuZnn0GChNtw4+bMUa2qacpwf14tDDpZRaoWt/s=

Name: org/codehaus/janino/Java$NewInitializedArray.class
SHA-256-Digest: I1zlDe5ihUB9ZmHbHW+BBPCwvNcwMTHSfyhG9miEZqU=

Name: org/codehaus/janino/util/AbstractTraverser$7.class
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Name: org/codehaus/janino/Java$NewArray.class
SHA-256-Digest: g77IxdS0j60Fm09gQCbajMISFnMVlbvqfOHibAdezPc=

Name: org/codehaus/janino/Java$ContinueStatement.class
SHA-256-Digest:
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Name: org/codehaus/janino/util/ClassFile$ConstantValueAttribute.class
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Name: org/codehaus/janino/util/ClassFile$ConstantDoubleInfo.class
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Name: org/codehaus/janino/Java$TryStatement$LocalVariableDeclaratorResou
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SHA-256-Digest: BKdTldLr3/2uZBBAsK4xpqo7/X780NbaeFanbkzhQek=

Name: org/codehaus/janino/Java$BooleanLiteral.class
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Name: org/codehaus/janino/Java$Padder.class
SHA-256-Digest: kwA1tvhu+9aROmz/pQCup6bAt04pIY5vGPcZdcA8CFs=

Name: org/codehaus/janino/util/DeepCopier.class
SHA-256-Digest: mAMnfKUjkgKMahk8mD5scEKUIZl80RpUSoZn/Pm4qms=

Name: META-INF/maven/org.codehaus.janino/janino/pom.properties
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Name: org/codehaus/janino/Parser$1.class
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org/codehaus/janino/ExpressionEvaluator.class
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Name: org/codehaus/janino/MethodDescriptor.class
SHA-256-Digest: 0pOqbxkxlOeCZNbTSGeQjmqlZOdqso4+DmV4cz2h8B8=

Name: org/codehaus/janino/Java$Assignment.class
SHA-256-Digest: zM3r+DWFvItUaQurvtqqUfWT919aTBhCetiaLBlICvs=

Name: META-INF/services/org.codehaus.commons.compiler.ICompilerFactory
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Name: org/codehaus/janino/Visitor$AnnotationVisitor.class
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Name: org/codehaus/janino/tools/HprofScrubber$1.class
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Name: org/codehaus/janino/IParameterizedType.class
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Name: org/codehaus/janino/Visitor$RvalueVisitor.class
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Name: org/codehaus/janino/Visitor$ModuleDirectiveVisitor.class
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AIwWoeesjhvPStASQrIbl+kM6IxBkBa3WQw4Fw23yzE=

Name: org/codehaus/janino/UnitCompiler$8.class
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Name: org/codehaus/janino/AntCompilerAdapter.class
SHA-256-Digest: RBkMlMcamLRfOv/ZcKhTeqZ/Vd9IWL8f/TOpOzxhrdc=

Name: org/codehaus/janino/Java$Located$1.class
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Name: org/codehaus/janino/util/signature/SignatureParser$TypeVariableSig
nature.class
SHA-256-Digest: pVV+X1Upk45h7TtEqRu01TZ1DJ+kZPddSyO3XmvJcOw=

Name: org/codehaus/janino/util/AbstractTraverser$11.class
SHA-256-Digest: BDu7QAi18ura8SV9XrrETLmRNGlgv3YZPtSj1p9ykqI=

Name: org/codehaus/janino/Visitor$TryStatementResourceVisitor.class
SHA-256-Digest: cytJ3JY7B9ITcyP09RQVb6QCkjBXtrNwJ3lfnzYxBck=

Name: org/codehaus/janino/Java$MemberTypeDeclaration.class
SHA-256-Digest: qyeAoING7Ced411A0kBkJPvgHeIrr+UoXy9ALvoummI=

Name: org/codehaus/janino/Java$SuperConstructorInvocation.class
SHA-256-Digest:
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Name: org/codehaus/janino/Visitor$LambdaBodyVisitor.class
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Name: org/codehaus/janino/ClassFileIClass$5.class
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Name: org/codehaus/janino/util/DeepCopier$16.class
SHA-256-Digest: yqGfk0iW/yj2RLpHY1YCJjRZ0Pbc/h+5ILuEamt4i/U=

Name: org/codehaus/janino/tools/HprofScrubber.class
SHA-256-Digest: c7Z5Dt7ifYly93+SM6wtUa/fePXN0i8Vs3Pq4EIAdZc=

Name: org/codehaus/janino/util/AbstractTraverser$5$1.class
SHA-256-Digest: 1TfCvEVn5v55U8l6SyABNgunWNYW/odXvlJd1L+iw/k=

Name: org/codehaus/janino/util/signature/SignatureParser$Options.class
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org/codehaus/janino/util/ClassFile$AnnotationDefaultAttribute.clas
s
SHA-256-Digest: 3jwfLTDSZH7YjPYciOUjPTGxdXan1uuEqcQdbUdB3CY=

Name: org/codehaus/janino/Java$BlockStatement.class
SHA-256-Digest: Og+d3CpAy8MfHNZj/O3sPpHa9yKEEK+dMLy0Ll8ConU=

Name: org/codehaus/janino/UnitCompiler$2.class
SHA-256-Digest: A8kWi4wcw0NTAOudJoOHFI13Z9CQctt+NqgnX7gDHFk=

Name: org/codehaus/janino/util/DeepCopier$15.class
SHA-256-Digest: 5xbQ2bEO4SrE9oBe1OzCY3uaz1Fmlkn+/MEE/tQgbK0=

Name: org/codehaus/janino/ClassFileIClass$4.class
SHA-256-Digest: dy7cw2i8Xz5I9AZohnhSKppWb0y3Rg1R23ymqGAP+rQ=

Name: org/codehaus/janino/util/AbstractTraverser$6.class
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Name: org/codehaus/janino/Java$Instanceof.class
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Name: org/codehaus/janino/Java$TypeBodyDeclaration.class
SHA-256-Digest: +hwzxPKvbyj/t74MC8dvnUHco869VV84a5zbdqQabak=

Name: org/codehaus/janino/IClass$IMember.class
SHA-256-Digest:
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Name: org/codehaus/janino/util/ClassFile$StringElementValue.class
SHA-256-Digest: bbx/xuP3wBkURBrFJ0CY3rOMarHJ2XQ7s5hBicu2x0k=

Name: org/codehaus/janino/Java$RvalueMemberType.class
SHA-256-Digest: BctTTuI+L9LxWUpqSDv2mOPhk0LyYnk2y5gPDb+f69k=

Name: org/codehaus/janino/ResourceFinderIClassLoader.class
SHA-256-Digest: zPF7fDajwuREoLU4a9oKYssxneIPpVdLlY1iBCItwcQ=

Name: org/codehaus/janino/Java$Annotatable.class
SHA-256-Digest: YehuCqSnwPGJQpQfTZmLDI/cZNoolCQ8D8co2FmhgFk=

Name: org/codehaus/janino/CodeContext$Offset.class
SHA-256-Digest: Mhhd8EBLDcH/Ab0VWbuZm+LOSN+0J3eTOFNRwbveUrk=

Name: org/codehaus/janino/Visitor$AtomVisitor.class
SHA-256-Digest: p3DrZWVylI8a+a89owX1CF5nuxJfg+0wWU3LOknCu1c=

Name: org/codehaus/janino/Java$FieldAccessExpression.class
SHA-256-Digest: 7y2b+c1RYFucI2CqlS1BXY2YaxU/TA7bJMiZQ/9sPa8=

Name: org/codehaus/janino/util/package-info.class
SHA-256-Digest: i8U8rLZp0cIsLgLgheAxKXmR0xjEybbeOjFrFPXt6R8=

Name: org/codehaus/janino/Java$PackageMemberAnnotationTypeDeclaration.cl
ass
SHA-256-Digest: V2MkOv/iWNyghk7631czQA0gsmcxe7t+eugttcRBRn8=

Name: org/codehaus/janino/Java$Modifier.class
SHA-256-Digest: 5IIp03WsZ8jDFQuZnL8Y4YGkzZhv/wNQhfz0R5KIse4=

Name: org/codehaus/janino/util/signature/SignatureParser$SimpleClassType
Signature.class
SHA-256-Digest: PntGWzzz1Qw7Ca2W/UNwil0+346OHR2+GsOHPXfHc0I=

Name: org/codehaus/janino/Java$ConstructorDeclarator.class
SHA-256-Digest: pKQ/Kg4eO68A628qmHlW61BRBHX2MDvLyJComOQQgVI=

Name: org/codehaus/janino/UnitCompiler$31$2.class
SHA-256-Digest: lpPrBUWqPK5DaRqRszviESeSw+sZkq3eZg2hjSb4Olg=

Name: org/codehaus/janino/util/signature/SignatureParser$ClassTypeSignat
ure.class
SHA-256-Digest: eFiM5TtbHBLoIpn83w8mlaKeA0D1QppMtOF4HD51nlU=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute.class
SHA-256-Digest: 0Q3CwJO+iITgTB77SecsazpjxEyVu0G95ys0zHfqN5s=

Name: org/codehaus/janino/util/ClassFile$InnerClassesAttribute$Entry.cla
ss
SHA-256-Digest: skO2e5pM5fGeuT5lSXCEGNS6/Wggd6eKmKPJvYEkbko=

Name:
org/codehaus/janino/StackMap.class
SHA-256-Digest: /9Rko6qntikUXqlViNQ+GwFR1iT8qQHq0lEHmsWnNKo=

Name: org/codehaus/janino/CodeContext$Relocatable.class
SHA-256-Digest: wS9FyX0bHSjuCkl+8pY+PZYEW2MN+rA3u+sM+Tj22MU=

Name: org/codehaus/janino/Java$ArrayType.class
SHA-256-Digest: CL/djwEABd11+3QJs6b+5j8QAJkXSUDAEpGmY83nsg0=

Name: org/codehaus/janino/UnitCompiler$7.class
SHA-256-Digest: qbOpDOC7pSjyQrQ/b1L06CufRGlDRBTFN4ioLTN6S5M=

Name: org/codehaus/janino/JavaSourceClassLoader.class
SHA-256-Digest: EVvw3EEeS09c2QsanlwiEYTtEwMiSl35Ytr6n2J0Qws=

Name: org/codehaus/janino/util/signature/SignatureParser$1.class
SHA-256-Digest: jxg4kgKDg9wTUjjWydtZd+7OCUbscye0chje3jqqmDE=

Name: org/codehaus/janino/CodeContext$Inserter.class
SHA-256-Digest: 2CcCDDaMpMW5/vZG67+GdSwqxFWT19upMPgYWCX5foU=

Name: org/codehaus/janino/util/charstream/StringCharStream.class
SHA-256-Digest: oSxKDNxFKJVhYh2XfcOaQ87XN+Npjw7Rlqkee7Q/EC8=

Name: org/codehaus/janino/UnitCompiler$11.class
SHA-256-Digest:
rRWaqOyfNxO05/cp6ETDEK30VujVxOWdQmzgCS6WZkI=

Name: org/codehaus/janino/Compiler$4$1.class

SHA-256-Digest: A6d5KKd/jkczeOmbrsxFZaOi4Ih2jVen5x13cree9LE=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$SameFram
e.class
SHA-256-Digest: OREViZG0UIDfA5IWoTeDXaXdJPR1p/Mjq9XVVS41ij8=

Name: org/codehaus/janino/util/DeepCopier$17.class
SHA-256-Digest: SImslHJg4DwQgozaSScFdLt9qQfGgmmCsTm97smY0GA=

Name: org/codehaus/janino/UnitCompiler$14.class
SHA-256-Digest: Zbf8PHF7My+lPnCjGcziosPO4IGrFlNoTv0kE+QG2XA=

Name: org/codehaus/janino/ClassFileIClass$6.class
SHA-256-Digest: b/hBweARduDw44CSi7Ae+9AQDjTvdAvwHDGNyz7sdl4=

Name: org/codehaus/janino/IType.class
SHA-256-Digest: z2yCXH9AYUyUx2aIqHI+P8At67652dwgSxQok7HgldU=

Name: org/codehaus/janino/util/ClassFile$LocalVariableTableAttribute$Ent
ry.class
SHA-256-Digest: ZzMeDXw0btMybO0BZuzGCyBj7cYbblmr+bS/xmV3fdw=

Name: org/codehaus/janino/util/ClassFile$SyntheticAttribute.class
SHA-256-Digest: FDv8+hb4nAfUWlsuhyRJ5oF0Fj5BzFDU0hQBLGJAJeo=

Name:
org/codehaus/janino/util/ClassFile$ConstantUtf8Info.class
SHA-256-Digest: VYkRnqLYzgSJ+ZR7zqC4V/PQDDbWTyZhPggcSrl5mXw=

Name: org/codehaus/janino/IClass$IConstructor.class
SHA-256-Digest: S19H03w90f2TRYeKcAcgxkLPBYRKQWCMAeTC4B6j+FQ=

Name: org/codehaus/janino/Java$SimpleType.class
SHA-256-Digest: +ErmqJjfqf24JHQvN9tYCmlPoNWTIuaL0KgDpbB/wxA=

Name: org/codehaus/janino/Java$ThisReference.class
SHA-256-Digest: Hao5TYDjYzpgDwwlTkaS2j6E5i37+iPGb4MMx4uPt8U=

Name: org/codehaus/janino/util/AbstractTraverser$8.class
SHA-256-Digest: Z+pTg7fxJoTAVQitElT0FMNFFdKOurGlVaZhGgNFmMA=

Name: org/codehaus/janino/UnitCompiler$SimpleIField.class
SHA-256-Digest: MI4WAc+zS7wStMN6dazd7hKefVER2fu2isZF5zibYVo=

Name: org/codehaus/janino/Java$BinaryOperation.class
SHA-256-Digest: fMybLTTA6tts1POjYQ+2fLgJhOuctDmOoc8iAFzgMec=

Name: org/codehaus/janino/util/signature/SignatureParser$4.class

SHA-256-Digest: OYidRLdk9ysmY/RcldLeOqoRKXTAIvXczBMnYpjV+8Q=

Name: org/codehaus/janino/Visitor$ArrayInitializerOrRvalueVisitor.class
SHA-256-Digest:
OgAwiuCCjpzwSq4sPWNqUftz7ywKaRFBPELSkODgUQE=

Name: org/codehaus/janino/UnitCompiler$13.class
SHA-256-Digest: 5x2Uda+mK2pjDLQINizfoqCkrXD10TICqo9YfL/jdag=

Name: org/codehaus/janino/Java$FunctionDeclarator$FormalParameters.class
SHA-256-Digest: otynIT83XQsNo82WBixPhcrFlXQERWiUfFzogB8lOB8=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$ChopFram
e.class
SHA-256-Digest: /P6CPMKW/ZSh9GykNtV2So96gt2SwGWzLqPXAF4ANU4=

Name: org/codehaus/janino/UnitCompiler$4.class
SHA-256-Digest: JCc+Wr07CT+vSDrCxWw8Lf3BsQxVZCB5F/P+qi+u+Ng=

Name: org/codehaus/janino/util/ClassFile$ShortElementValue.class
SHA-256-Digest: nW07viyeAsnqxQsCJnzV1oIlWUkBI1aOxxXk+LQCqfc=

Name: org/codehaus/janino/ClassFileIClass$7.class
SHA-256-Digest: GzoKYxwKQbyV08SxuOd+vj1d/btMjLY9EGsSpNsLZVs=

Name: org/codehaus/janino/Java$Primitive.class
SHA-256-Digest: WP2rQUDskbJxV4s8l7LQj+riOrKgujMdPAR1Rxt7Ry8=

Name: org/codehaus/janino/util/AbstractTraverser$9.class
SHA-256-Digest:
rSSV6Iehvz/p4MKxUEOW3qmueIrSepEnJCcwrVffAUY=

Name: org/codehaus/janino/Java$ArrayInitializerOrRvalue.class
SHA-256-Digest: sqApJ4ZsroVyw46maD1zSM4l3vB8s0H6oS+zbVbatjQ=

Name: org/codehaus/janino/util/DeepCopier$18.class
SHA-256-Digest: rRt3/a1PyzI9Zyn92J8m7EKj3+JRlxMqkOvLBW5iSfQ=

Name: org/codehaus/janino/Visitor$BlockStatementVisitor.class
SHA-256-Digest: u8fO5w8CbOsTrDc7qHqZqh1IBwlXQnGF9EEFssW/Xlw=

Name: org/codehaus/janino/util/signature/SignatureParser$ClassSignature.
class
SHA-256-Digest: U4wQ3iVtPgJUwW7MGZQ0hlqeUdP/vnj7AGChzH/xeRg=

Name: org/codehaus/janino/Java$Lvalue.class
SHA-256-Digest: Aqe3FL6yEFHBMwVtaSS0x928K0j5EhTNrFkACmvFxf0=

Name: org/codehaus/janino/ClassFileIClass$2$1.class
SHA-256-Digest: byMyvsFqGUGL6vVgLJkgxEw6uxmRIsQFGQUJo89yIFU=

Name: org/codehaus/janino/util/signature/SignatureParser$SignatureExcept
ion.class
SHA-256-Digest: aespNa/+ApSMqvTkD1+UEtMsIEqDV99kzd1mXJZxZrI=

Name: org/codehaus/janino/Mod.class
SHA-256-Digest: CVMW4E342ufw+qFhNCN0JgbO+G9w68jkfmrgmCfdbCU=

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org/codehaus/janino/util/signature/SignatureParser$3.class
SHA-256-Digest: oGJ5eKTHhvM4tJXYiO3z7nB+bVvFzSVA6a529NGENZo=

Name: org/codehaus/janino/CachingJavaSourceClassLoader.class
SHA-256-Digest: Z5poyEza/T+RZBwNix7K0dbZMxBLmpWlbfxoqBcDmLY=

Name: org/codehaus/janino/UnitCompiler$12.class
SHA-256-Digest: FXymxxAmK54DIsbxjFyhfBIbo4C9vCZTvLeSyuFfD58=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$StackMap
FrameVisitor.class
SHA-256-Digest: avBZARS20hxUjeQEEpPEsgBTYb417JVA06jBY1hwU0o=

Name: org/codehaus/janino/UnitCompiler$5.class
SHA-256-Digest: AoOokY80GWwFKObmdHKGHIGItg+7xQ+CJvTGK84ljvM=

Name: org/codehaus/janino/Java$TryStatement.class
SHA-256-Digest: H4xXKvT/BW9FgDlGoT6iayEtmP4GyCj8pNRwDVGOJ4s=

Name: org/codehaus/janino/TokenType.class
SHA-256-Digest: koUfzJ/KGTtVaNsIDRNBZ7phiTGxU+is5VAPlxdj2Y0=

Name: org/codehaus/janino/Java$ArrayCreationReference.class
SHA-256-Digest: ombbXelcJLXhfihIqO4RoaJjZaPWSurnHX3hCCOWdjo=

Name:
org/codehaus/janino/Java$AbstractCompilationUnit$StaticImportOnDem
andDeclaration.class
SHA-256-Digest: E8CWrrfSAxHErnL3/HU69HyFFC9VO+bz3o47vTxHNvU=

Name: org/codehaus/janino/util/ClassFile$ElementValue.class
SHA-256-Digest: hWUawFQtL7UshZ1IzMc+xyfAo5bvVhLEwfqEHbuhIXM=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$SameLoca
ls1StackItemFrameExtended.class
SHA-256-Digest: Fq2ysQrVT955SFF1sojnkRiGaBOVZHJw06JenTrgi+4=

Name: org/codehaus/janino/Java$NamedClassDeclaration.class
SHA-256-Digest: RlEwF6xFuR/Q/NHW/ochp/u0R+EQNtVgHulyrSvro58=

Name: org/codehaus/janino/tools/package-info.class
SHA-256-Digest: Bl+oo8UDT4xO51eDDDtGIvTcceW5FV9dmlQdMcsLtBY=

Name: org/codehaus/janino/Visitor$LambdaParametersVisitor.class
SHA-256-Digest: nSC0HABE6HiyfXOLnCLlK/F73XaUw/YRegyDgPgwWSQ=

Name: org/codehaus/janino/util/signature/SignatureParser$FieldTypeSignat
ureVisitor.class
SHA-256-Digest: 80dkTysNUjxBUM6q1rXrEmjquVbY9uSevn/mH2eHP5M=

Name: org/codehaus/janino/UnitCompiler$15.class
SHA-256-Digest:
CTtYwyolDv1q4h0fskWW2YbLjMPpTyiBqD0pg3EyjwA=

Name: org/codehaus/janino/Unparser$6.class
SHA-256-Digest: M78qiEZ8VDCRkXmqtDRA4Fhk1sNujycCqsHSNVyv/TU=

Name: org/codehaus/janino/UnitCompiler$6.class
SHA-256-Digest: PzDjWfWQrs7U4k3SrcqW8QpaPQWR9qtKwQj13Y1O6QY=

Name: org/codehaus/janino/Java$IdentifierLambdaParameters.class
SHA-256-Digest: Jvow7aF6SYx6ja6m6n05yttYsBqSOsaM8mKq5Q61q5M=

Name: org/codehaus/janino/Java$Literal.class
SHA-256-Digest: 2c6a8YyRt4FrvWoM1QiHKeThfg0qPxTUutLTwTpDl3E=

Name: org/codehaus/janino/util/ClassFile$DeprecatedAttribute.class
SHA-256-Digest: hOZxwKcn6FD5w1e3ULTuLal/Yeh/zgYtcJiL5VCvzV0=

Name: org/codehaus/janino/tools/HprofScrubber$Site.class
SHA-256-Digest: UONQtNrblYzUHJy2u5POVdoDgqBmPJZ8BJTv+4DznXE=

Name: org/codehaus/janino/Java$MemberEnumDeclaration.class
SHA-256-Digest: FH+WzkJNRs4LucPx6iJTfb1qm16WZazt2XW+izVZAHc=

Name: org/codehaus/janino/Java$EnumDeclaration.class
SHA-256-Digest: NKdSiLL8TF5brnrhh9JS+lCSb8H9gKKP3wVbtQ9O0hI=

Name:
org/codehaus/janino/UnitCompiler$28.class
SHA-256-Digest: 252L41TK6iIEnUi2kk9nfsVMrwWaj8CwNNQRE6r8rbU=

Name: org/codehaus/janino/util/signature/SignatureParser$PrimitiveTypeSi
gnature.class
SHA-256-Digest: XxDCzKCc1epSB9i1eg5t3wJPjFXfaND80bTmQlOx4lM=

Name: org/codehaus/janino/Java$Rvalue$2.class
SHA-256-Digest: 3rdr1GJDLwq28aDbVwyTpc5Ot1WodWgXUWzPplQ5OvM=

Name: org/codehaus/janino/util/ClassFile$FieldInfo.class
SHA-256-Digest: VKGgA/PeFVQ07d+L3V4bIUTjhFaIQ7oMsig+Nr9ArJo=

Name: org/codehaus/janino/util/DeepCopier$13.class
SHA-256-Digest: FJ1Rfwjv69hl3k/bOGxX0l4cy4CNnQBCJGDbYIfjBMw=

Name: org/codehaus/janino/util/ClassFile$ConstantPoolInfo.class
SHA-256-Digest: 8GPeW/b/D3IFyYYgL91Zb+pGnOhUdMog8RfM4Vl9axg=

Name: org/codehaus/janino/UnitCompiler$42.class
SHA-256-Digest: 1Q6y858xJrVl2sFCnO+iRn81um1aZCQSahlSGs09fNQ=

Name: org/codehaus/janino/Java$ThrowStatement.class
SHA-256-Digest: oq3UeX09QxCE23POGpBbHI5GPu5tmODo/B2hX8Dj9nQ=

Name: org/codehaus/janino/util/ClassFile$AttributeInfo.class
SHA-256-Digest:
mlHN0E0qyJEivsA/Uz9BtGyvS96tjbYl7cQs8/worHw=

Name: org/codehaus/janino/Java$ConstructorInvocation.class
SHA-256-Digest: T35TXt5rJYg+VcS/CTIR0hFqypI9hzkrr2sVHZxbo38=

Name: org/codehaus/janino/ScriptEvaluator$Script.class
SHA-256-Digest: WyzQGWfT3twvSfQK7OQ4QIRR2Jbgrra9cWTI83+NzTg=

Name: META-INF/maven/org.codehaus.janino/janino/pom.xml
SHA-256-Digest: exDpA00jkVcvSFkN7L5ncZ/a7kPpjgCu/zHIAR+3mYI=

Name: org/codehaus/janino/util/DeepCopier$2.class
SHA-256-Digest: 66mq0JQ4XuvWdviPPaBk+CJEPXVm3Sns7YWsW2+5DGc=

Name: org/codehaus/janino/Java$AbstractCompilationUnit$TypeImportOnDeman
dDeclaration.class
SHA-256-Digest: HjVPkpb2hdROgH2GqL7F/0/GZD7jkkypFReC6jzhzyg=

Name: org/codehaus/janino/Visitor$TypeVisitor.class
SHA-256-Digest: 4fYFKFcWsp9Qcr3Au3qMZacwoZblRdGyiUnRiuG4F0s=

Name: org/codehaus/janino/util/AbstractTraverser$4$1.class
SHA-256-Digest: EUiDc+FWacSj9cg5rtUWQzAnuvW1CPJozb/PvG9i7uQ=

Name: org/codehaus/janino/IClass$IField.class
SHA-256-Digest: gt0bZcPElihqMk2moUZbUzcAiqcpo76Io6x+gUBPBsQ=

Name:
org/codehaus/janino/Java$FieldDeclaration.class
SHA-256-Digest: 3/VHiiel8HlJapUKeuTOC2UOz0cmy1W7NflMzSM1X1s=

Name: org/codehaus/janino/SimpleCompiler$3.class
SHA-256-Digest: Ck8RRR6R+MmnZKWO1LN1PCMovLSDAYIMO+UDZILC4Wg=

Name: org/codehaus/janino/UnitCompiler$1.class
SHA-256-Digest: 9yLg8S06x/H16NJ688QhPvX+JVtkuHKRRL3O8wqLY9c=

Name: org/codehaus/janino/Java$LocalVariableAccess.class
SHA-256-Digest: iR9JnVky8i76MpkR7o8DVbfjUeWrs1lunA6R5jAKTSQ=

Name: org/codehaus/janino/Java$FloatingPointLiteral.class
SHA-256-Digest: z1204VBa0lxt5itrRWSHLqTFgpsAwhskMLyyDuGXkFM=

Name: org/codehaus/janino/util/charstream/CharStream.class
SHA-256-Digest: DQwBuVr34NT9jVRJzRfS+mDhfQtkL3nXwHTEDBpZ4mc=

Name: org/codehaus/janino/Java$MarkerAnnotation.class
SHA-256-Digest: Yqz6mniTZkDZ9DOJNTyfEfsvYTnqltUPtn+XBB8Dmhk=

Name: org/codehaus/janino/Java$Wildcard.class
SHA-256-Digest: MES68QyB++wEuWOh4P5rMVYITz46hH2/3ScYfZK7DY8=

Name: org/codehaus/janino/Scanner.class
SHA-256-Digest:
d4JdILsh2A8K5TDQ1g+AVPSI72R7j0uBC5WgzVhasfo=

Name: org/codehaus/janino/Java$FunctionDeclarator$FormalParameter.class
SHA-256-Digest: duJrpX6C4cgtsBRZDCgSXKBcBkuSE0Uo1BYmrMQHfIw=

Name: org/codehaus/janino/Unparser$16.class
SHA-256-Digest: w8zWln3qSeLP4wHdRAmb5Jdw1AzgRVF9+3TE/v76OEA=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$ObjectVa
riableInfo.class
SHA-256-Digest: VZFUDC6ZqoShjZPttIymQ3NrY2rt/RkNy6y0qm9g9Pk=

Name: org/codehaus/janino/util/ClassFile.class
SHA-256-Digest: xeE5Pp9J9Lkfv5hk5SBfd9xaS8GfokyaCiQ80J6N1cs=

Name: org/codehaus/janino/UnitCompiler$10.class
SHA-256-Digest: DirX7/whQjEWeRVAE9vvAwUEZ9OwXx23zsooLb3j1Yg=

Name: org/codehaus/janino/util/AbstractTraverser$5.class
SHA-256-Digest: 13l0KNcRixOxLiBqMaLYiMjXVlCaAEcXQqS4lfI24nU=

Name: org/codehaus/janino/CompilerFactory$2.class
SHA-256-Digest: g2In4lGx8bQt+25TUlDWRc4FjHKSWdbg1eE20mUyHWQ=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$AppendFr
ame.class
SHA-256-Digest:
PL6IZdjjHLkBeFQaAUXh54PLQ0wOjbK6ZU5UP38F0vc=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$6.class
SHA-256-Digest: 63ZXhRiE6+N6zQvRdDNsrWYY6yhqbaQ1f3L+Ny7vQKo=

Name: org/codehaus/janino/Java$ClassInstanceCreationReference.class
SHA-256-Digest: X59Bfr4xMPBie0TIBNkl/bp9pe+maT9EcLPa/gsyJds=

Name: org/codehaus/janino/util/signature/SignatureParser$TypeArgument.cl
ass
SHA-256-Digest: nO5PQxLQy/4MM6R97Hb3+rFufcIX0f3dkmX5CWX6/Gg=

Name: org/codehaus/janino/util/ClassFile$ConstantFloatInfo.class
SHA-256-Digest: lY3u0ZX69UgbEFhWsT1b+rgy+I8+hJs0WXNm4GaO4+8=

Name: org/codehaus/janino/IClass$2.class
SHA-256-Digest: dBI8mDtV1RXUNdV03r1eNbjZr89eUPbuCxCXpz1paR0=

Name: org/codehaus/janino/Java$Annotation.class
SHA-256-Digest: OrRoYtOnSo8CtTBCH0JkGM4tVRuMrA4M4Y6WM8S1gzc=

Name: org/codehaus/janino/util/ClassFile$ConstantClassInfo.class
SHA-256-Digest: 6/eDw6WPp7a/8TJ1BbLBNCj1kxV9OOxWXh5ZduH9IPQ=

Name: org/codehaus/janino/SimpleCompiler.class
SHA-256-Digest: zh0kmFWqOkOBo42Ufsn9sFXc1Ck10enhNP+Bu+EFIDE=

Name:
org/codehaus/janino/UnitCompiler$21.class
SHA-256-Digest: p6WtQFgrWpGOR0mlqKXmUV7G5KLgHwciW36MpZ0+MHA=

Name: org/codehaus/janino/Visitor$ConstructorInvocationVisitor.class
SHA-256-Digest: Z9HPO6UwRooj5cC1diKHsC0jq7mKXlGGSw7szOwhAMo=

Name: org/codehaus/janino/util/ClassFile$LongElementValue.class
SHA-256-Digest: Sfex8GDDYAukI8IbHxUAkUAIUPLpE1P/8O1KMh5JYF0=

Name: org/codehaus/janino/IWildcardType.class
SHA-256-Digest: cajE+0BYNkXuFc1yXnOlQQ4pSg7lfk8BSfySrAMdoUU=

Name: org/codehaus/janino/util/ClassFile$AnnotationsAttribute.class
SHA-256-Digest: V2sr07koVznIx5EfiRugKLp7Hr/M94MOlQCAnxYM5kQ=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$SameFram
eExtended.class
SHA-256-Digest: tPoGgGWo14PfIOj1In1D0XPABlZn1qpzEO/lxLL6gJY=

Name: org/codehaus/janino/Java$StringLiteral.class
SHA-256-Digest: mWdyrm1PqnG59Kuz0FasXnoe8BAp5mwpMP6RCW5T9DI=

Name: org/codehaus/janino/util/ClassFile$SignatureAttribute.class
SHA-256-Digest: uFaMVomGWHtsp0ig01tybyzJ6+01t746mCu4vdL6G8Q=

Name:
org/codehaus/janino/Java$SwitchStatement.class
SHA-256-Digest: wmrAadx6OwPOs22x+sQrQY7JN6ODbypHhYjS2jWsPO0=

Name: org/codehaus/janino/ClassFileIClass$3.class
SHA-256-Digest: BqANdg23JLyblme3Dr7bJ+IEWNlnC7t78gLzvCFN0FI=

Name: org/codehaus/janino/util/DeepCopier$9.class
SHA-256-Digest: VAOh0ov4Vlp2UjnZyFIThm72i/Mddbctc8lFRneeSDw=

Name: org/codehaus/janino/CompilerFactory.class
SHA-256-Digest: sBZIS02QjVsFbjJGJDEIMTZC9TQ9GJgOFd3LpqABTkk=

Name: org/codehaus/janino/Java$EmptyStatement.class
SHA-256-Digest: ELq5mo+drlpHQ/XFl9WfN/66klQ3WFtGLXNpB8O4dPo=

Name: org/codehaus/janino/util/AbstractTraverser$3.class
SHA-256-Digest: jxPdw+2akIlpZkpcOI5blLUz7GelhdfT4yopwz+kv9A=

Name: org/codehaus/janino/IClass$IAnnotation.class
SHA-256-Digest: tY2Gkie/CT/z8bGZ1mtnDXmyp8Z+W8yDsVh7FAJ+UXM=

Name: org/codehaus/janino/Visitor$ImportVisitor.class
SHA-256-Digest: NMnBMaEl65fU0f1ydHjM9R+HyaAHiraeqV0twsDd19U=

Name: org/codehaus/janino/CodeContext$BasicBlock.class
SHA-256-Digest:
va9sCuxMeZq14Aq3U1G/+4tX4IiWfnf2a1ua/ySfIpI=

Name: org/codehaus/janino/Java$MemberClassDeclaration.class
SHA-256-Digest: vI8aS/dQf4c3xDf52oq1ryipts8lfSW2RKJG7ofJMRo=

Name: org/codehaus/janino/Java$ConditionalExpression.class
SHA-256-Digest: yiEaqS+m1jMSUbC924vJ4TxnuRzCaKW4F0o0CyxgXwQ=

Name: org/codehaus/janino/Java$LambdaParameters.class
SHA-256-Digest: YYAw4Bp+by56XKQMJZb5N1Mz4jLx7jS3JlUeCPC9afA=

Name: org/codehaus/janino/util/ClassFile$IntElementValue.class
SHA-256-Digest: LseOOZJS4lR9u3C//+MJ34ATWJNvdI3x7Ph+GUzUgQE=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$Uninitia
lizedVariableInfo.class
SHA-256-Digest: j4/LQrl6dp9sB/HEVIEfwDOgQ4lIuFrfW4hbEZb6lKU=

Name: org/codehaus/janino/util/DeepCopier$11.class
SHA-256-Digest: CZf447NXkhgZqAzpwgC9zUeHJSyUBqqWf1mvj8ZdwqU=

Name: org/codehaus/janino/util/ClassFile$ConstantElementValue.class
SHA-256-Digest: gWJ7du4PfAijCMFra/Eoln5rkFcHillwo3/6lCgc/oA=

Name: org/codehaus/janino/UnitCompiler$17$2.class
SHA-256-Digest:
EddX+ddWvE01SsmTAGzxbBi81basHoSibDw4apxLjCo=

Name: org/codehaus/janino/Visitor$TypeDeclarationVisitor.class
SHA-256-Digest: p262+tyWf6u/fl5+xzU4g2fkAgng6/I1edvqIbhbOOE=

Name: org/codehaus/janino/Java$NullLiteral.class
SHA-256-Digest: hTa5F6/i+MDzgAhlb55+QMT29SxtChoCUwtRjhsLfjA=

Name: org/codehaus/janino/UnitCompiler$26.class
SHA-256-Digest: O9WrrzSwwTrOsMW/nwdHRTMp2RMyRRl+vd/csSV9mR0=

Name: org/codehaus/janino/UnitCompiler$28$1.class
SHA-256-Digest: MlpXz+xkbhKqNDgZD+hDNwXnjn6DokQaGHg/V9rD9Qc=

Name: org/codehaus/janino/UnitCompiler$31.class
SHA-256-Digest: MmwDxsq/gkppzPl+JwMJPC6KFyJ08QFp9MSIB+q1EK4=

Name: org/codehaus/janino/Compiler$1.class
SHA-256-Digest: AllMsUaSCvrtvaxAqmoXF5OHh2wMOnH7n2ZSm13q3Wg=

Name: org/codehaus/janino/UnitCompiler$17.class
SHA-256-Digest: OFH1XGWxVaJOH7x5DBBx2yYtlugNFV52A6O5KmhjmuE=

Name: org/codehaus/janino/util/ClassFile$BooleanElementValue.class
SHA-256-Digest: zgwz5PBV168gCSPbhcqm5G4SuRVp0VDAM9/mZDfFcXk=

Name: org/codehaus/janino/ReflectionIClass$ReflectionIConstructor.class
SHA-256-Digest:
31j1FFU8TXAu1Eyj9x19WKTIq7kOIL0fKSPi8l/Ymdc=

Name: org/codehaus/janino/util/ClassFile$ConstantFieldrefInfo.class
SHA-256-Digest: Z2PEMepAWJlU/QervQKLlBfzrumAtY3T8nBN7i+kjVM=

Name: org/codehaus/janino/Java.class
SHA-256-Digest: BWuUBokVhIEdouY2XIa591HIKv83ANosvpMWgXWvM50=

Name: org/codehaus/janino/ClassFileIClass$1.class
SHA-256-Digest: vm8Ldzweqg2aULHLFtHu0mAkE6Alj16jFSkhnh2hdE8=

Name: org/codehaus/janino/CodeContext$FixUp.class
SHA-256-Digest: 9S06D9THlRFbr/nLYjabnTntDGVHSRCVqnqLmhcJLCw=

Name: org/codehaus/janino/Java$ClassDeclaration.class
SHA-256-Digest: SxGIEFMMeBdgzUZxVndJxRZ2BCCOVkFsLU4UHsUI6VE=

Name: org/codehaus/janino/Java$Locatable.class
SHA-256-Digest: eV10WvgA4V2LFgs6Z5dOdKd8CakNZAhk3a+131pAMuA=

Name: org/codehaus/janino/TokenStreamImpl.class
SHA-256-Digest: tg/SCpyg58XVYijleV0F8NSfl0bbFoAxLz2SMt4G7xA=

Name: org/codehaus/janino/util/ClassFile$Annotation.class
SHA-256-Digest: 5MuVV+haCq/c+jbPgVEB8te3ewBT8wJSyf+Jl66ElIg=

Name:
org/codehaus/janino/Compiler$CompilerIClassLoader.class
SHA-256-Digest: tWRIopEcSZJKCLljQM0mnxsY9SKGEDob0Jhl5t7iANQ=

Name: org/codehaus/janino/Java$Initializer.class
SHA-256-Digest: O4ofPHLRVdRuVayQ+LoWIPA6luPRqI0TxOQa1Wwq1i0=

Name: org/codehaus/janino/Java$AccessModifier.class
SHA-256-Digest: bu95pe/OgGZrYkBWjKKT/PLYJFNzUCJf6IS0t/3njc0=

Name: org/codehaus/janino/Java$Scope.class
SHA-256-Digest: q7MMiS1ghcxhcoIL7BTlufhuuyo6j5LpyZobMdpJkJE=

Name: org/codehaus/janino/Java$ElementValue.class
SHA-256-Digest: G/Eveph4m612ZUGMPWXaSPp2rFrZ9LbaznJUackL1tk=

Name: org/codehaus/janino/Unparser$1.class
SHA-256-Digest: zH3gIGB90LAynJcNbbn2H8tFC0RuzkqB7g2/I0x2eSc=

Name: org/codehaus/janino/Java$Cast.class
SHA-256-Digest: Ts8bxqyiAw599n1YPnLGGHQqZ/2w8vCm7D5bBODFGw8=

Name: org/codehaus/janino/Java$LocalVariableSlot.class
SHA-256-Digest: vLvABAY+oIiB/9xPWRJXq3bEjZx20qttS+smvE1ks8U=

Name: org/codehaus/janino/Java$WhileStatement.class

SHA-256-Digest: XzdShrFwCSx5z8HiKre5rTDBOB7ZJJlzhZoqQriapKs=

Name:
org/codehaus/janino/util/ClassFile$EnumConstValue.class
SHA-256-Digest: 1un25QnZ53i+HLC3Jekr3CLtkcshuTtddVDEEef+A4o=

Name: org/codehaus/janino/UnitCompiler$23.class
SHA-256-Digest: 9nL5Z4jcTtf2iN77bVgSUgyMf2wZV1ilpabABQaiG9E=

Name: org/codehaus/janino/Java$VariableDeclarator.class
SHA-256-Digest: 0JZVuOr8Q+Ez7OUP5hFH8Wp5vnu1atY+4v1dvZjknS4=

Name: org/codehaus/janino/samples/package-info.class
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Name: org/codehaus/janino/Java$SwitchStatement$SwitchBlockStatementGroup
.class
SHA-256-Digest: rAh4sxe+XtzXz3B5F6VS+lBMmFbOvc2sHDKRz4v+OpQ=

Name: org/codehaus/janino/Java$ContinuableStatement.class
SHA-256-Digest: fpOoXRjhkNQHK6ZAJDnlusWVXXqlcu+D60KgrCFq90g=

Name: org/codehaus/janino/Compiler$3.class
SHA-256-Digest: i+MDCb+d6pjScxgQZNuG9FOa9vXauSGPH2XDRROROdJ0=

Name: org/codehaus/janino/UnitCompiler$5$1.class
SHA-256-Digest: gU2k7Y04Rdmor7CCe6GHkTWCYAAQBP5unZHKwcyYfJw=

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Name: org/codehaus/janino/Visitor$ElementValueVisitor.class
SHA-256-Digest: rZ4JR0hhTiKRcx1EOHQBj6jpLyqZvZiHT/xrnZjl7Kc=

Name: org/codehaus/janino/SimpleCompiler$1.class
SHA-256-Digest: 7BE7gadDutC9BkL+dagDW2EdPdOu1W3I2xJyGUco6KU=

Name: org/codehaus/janino/ScriptEvaluator.class
SHA-256-Digest: q27mCYh49FMMOEvWzuJnirbOqupJCMl8Tp+d2z1Sdlk=

Name: org/codehaus/janino/Java$Block.class
SHA-256-Digest: lZnM6BYodTTeHui6msLQ+jY8XEJBwVmi4ZlmGOQvJlc=

Name: org/codehaus/janino/Java$PackageDeclaration.class
SHA-256-Digest: 9zr/UG8z74I8Mdr1xoQlEQ+320w7hMrdpNpzKVQd2yA=

Name: org/codehaus/janino/ClassLoaderIClassLoader.class

SHA-256-Digest: X6SA2gIEs0oGsjsrRBGi0EvwEBzLsPXgDqnlNPdpjic=

Name: org/codehaus/janino/Java$PackageMemberTypeDeclaration.class
SHA-256-Digest: PZunTg5AgRPDLSaGLFs6V6IZOAJoAmaXHTRy49NLm6M=

Name: org/codehaus/janino/util/DeepCopier$7.class
SHA-256-Digest: AvkgYu7fP/+dsJpXSDT3G0ijrIjl8OtCSlYCtRh/zE0=

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Name: org/codehaus/janino/util/ClassFile$ConstantElementValue$Visitor.cl
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Name: org/codehaus/janino/util/signature/SignatureParser$ThrowsSignature
.class
SHA-256-Digest: YQFUcoW3YTLAPMpFIj7wU6bd9FllGxFAiD+4AMtDnQc=

Name: org/codehaus/janino/UnitCompiler$25.class
SHA-256-Digest: qqpc3L6isD3PnXPptggf6beDQ8jwNnnw3VIKbUpeRZM=

Name: org/codehaus/janino/Java$MethodReference.class
SHA-256-Digest: PrFGPoa80oWidJ8+DsB+BHgNEUnZiber4NxHuzkg60U=

Name: org/codehaus/janino/util/DeepCopier$10.class
SHA-256-Digest: UCiTooPD8Fml+rYIo19KdyXSigPhBRTgJaU5bBT8ozo=

Name: org/codehaus/janino/Java$LambdaBody.class
SHA-256-Digest: lY7hiUrB+q4Mm8ATTQrH4tiS5zinYUwVsJB66aTJ05g=

Name: org/codehaus/janino/Unparser$9.class
SHA-256-Digest: cupKvwN8y9X7FGvtZyeu7HGxiOyLQOHVrlXvXTZ+BSk=

Name: org/codehaus/janino/UnitCompiler$28$2.class
SHA-256-Digest:
Ut2DFMhrxn4uEPeu6882UkBqb0o4bGxBm4CyAiJGEkc=

Name: org/codehaus/janino/Java$ExpressionStatement.class
SHA-256-Digest: 1X1KR8szGENzMsUP3Dd1k9XlUjM6SbOF0vzO0B+vclo=

Name: org/codehaus/janino/Java$ParameterAccess.class
SHA-256-Digest: k2SYpNYiSy1tPm7FAMVlWARUJcym4syc6Zm/jnqjgHM=

Name: org/codehaus/janino/UnitCompiler$38.class
SHA-256-Digest: ZWv7fqdahnh47UVyeKzL0k49bPK8bEphy5NdWLmfwDo=

Name: org/codehaus/janino/CodeContext$OffsetBranch.class
SHA-256-Digest: 4cSUzheuZ40ZO95aWbQGApWX/O05qi2lO4BoHh2sx38=

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Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$Verifica
tionTypeInfo.class
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Name: org/codehaus/janino/UnitCompiler$39$3.class
SHA-256-Digest: QGm2j6nCPPBpG0LI5ftX9dkG8mr6Q8ljx0DsH+nEM1Y=

Name: org/codehaus/janino/Unparser$3.class
SHA-256-Digest: +5H9Ffvk7x5LuIZpCCxp9GsAm+ZKWYiK2pX1a37FGBI=

Name:
org/codehaus/janino/Java$ArrayAccessExpression.class
SHA-256-Digest: D/Gp48KeAEnF9ZhiXytWdsn38OTpTOgx0bCNxMUdBBY=

Name: org/codehaus/janino/ReflectionIClass$3.class
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Name: org/codehaus/janino/util/ClassFile$ConstantMethodTypeInfo.class
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Name: org/codehaus/janino/Unparser$18.class
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eter.class
SHA-256-Digest: 0my8rbbAhtctWC0sCYJQOlaPyAQxqTx9WuYqOTBTyvA=

Name: org/codehaus/janino/Unparser$12.class
SHA-256-Digest: 3qe4+WvKHToARSnn+LMY9Mu8EGKDksi1+AIpFiA429I=

Name: org/codehaus/janino/util/charstream/UnexpectedCharacterException.c
lass
SHA-256-Digest: f0w+Np8j8Mr4iOEouVagXbXDQB/JYVgUH1RJ6mnsOUM=

Name: org/codehaus/janino/Java$NormalAnnotation.class
SHA-256-Digest: XXB9xtZraVbdhBa/dWp4VoEYVTvSFGH5z86L+2EplO4=

Name: org/codehaus/janino/Java$ReturnStatement.class
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Name: org/codehaus/janino/util/AbstractTraverser$1.class

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Name: org/codehaus/janino/Parser.class
SHA-256-Digest: 5AgkcUZtAdP+DbjkhxW7oekqVLPS7MamWbSe3JWnxZU=

Name: org/codehaus/janino/Java$SynchronizedStatement.class
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Name: org/codehaus/janino/Access.class
SHA-256-Digest: qvNgbo9lD/q25Ku9acRZsAsyjfy9uj/qrB57WxGQMx4=

Name: org/codehaus/janino/Unparser$4.class
SHA-256-Digest: XNr4fP2sQYZ+hA5DbIoPZqaXJPVZbsTGzbxnQ4Ap0fo=

Name: org/codehaus/janino/UnitCompiler$33.class
SHA-256-Digest: on691Z9oYp8HEPMOJkrpyCG8vxoH46Hr4d4+MLRXpgw=

Name: org/codehaus/janino/UnitCompiler$14$1.class
SHA-256-Digest: iBgcGQZ7hIx6He6VbxtdZFzQDBafUe38tO132pssaGI=

Name: org/codehaus/janino/util/ClassFile$ConstantNameAndTypeInfo.class
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Name:
org/codehaus/janino/util/ClassFile$ClassElementValue.class
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Name: org/codehaus/janino/Java$PackageMemberClassDeclaration.class
SHA-256-Digest: 83LyzvQNdeZHqrOgGlvCB/WO45qr/f+IV7lp6lhGhwA=

Name: org/codehaus/janino/Unparser$17.class
SHA-256-Digest: uyAlHOguMWnwYogJOLAcVDU1WwmFYsYvq2GabFCqcGc=

Name: org/codehaus/janino/util/ClassFile$CodeAttribute.class
SHA-256-Digest: X/9moiAZ+h4GV4VRldRq97PsvZKESusdBJbssBammrg=

Name: org/codehaus/janino/Compiler.class
SHA-256-Digest: cKnI8W1jSXjt5IcaLkhvWO8j0fRNAdk05YBBT8OC900=

Name: org/codehaus/janino/Java$Statement.class
SHA-256-Digest: ijsrs9eAgEEpkoYgJVlZmOOONRoYhPzI0tlv+4RoIMA=

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SHA-256-Digest: eK3v5i5lVx6HydDqgIon8l+nFwQZfM/9flu56dXXdzs=

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de.class
SHA-256-Digest: WS8bRh4xYzzaquUwvSgq6oENL6OJfD2WSa6eKtZiqTw=

Name: org/codehaus/janino/CodeContext.class
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Name: org/codehaus/janino/Java$NamedTypeDeclaration.class
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Name: org/codehaus/janino/Java$MemberAnnotationTypeDeclaration.class
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Name: org/codehaus/janino/Java$AlternateConstructorInvocation.class
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Name: org/codehaus/janino/UnitCompiler$39.class
SHA-256-Digest: gj9clXVloeK8Sedd51j3IbcQV+9q1pOt9QK0BUXpUsE=

Name: org/codehaus/janino/IClassLoader$1.class
SHA-256-Digest: or4jnCaL8z8l8xUCUldBywIocF6Kh0GZ9nY8eEY/tu8=

Name: org/codehaus/janino/Java$TryStatement$Resource.class
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Name:
org/codehaus/janino/Parser$ClassDeclarationContext.class
SHA-256-Digest: QHkFxYr4PkxQEFCEhD+qyldc+Kg3jb29hiE3bARkqqI=

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Name: org/codehaus/janino/UnitCompiler$32.class
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Name: org/codehaus/janino/util/ClassFile$ConstantInvokeDynamicInfo.class
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Name: org/codehaus/janino/util/ClassFile$LineNumberTableAttribute.class
SHA-256-Digest: 7iws4y5PFAxnmhLiDsETe/DzLEEYDZAOgUz3BYDFIKI=

Name: org/codehaus/janino/ReflectionIClass.class
SHA-256-Digest: 2V7QN2I5GVF/HC+Z7Ua+BxpedSPO8XVlbu9l87+bvSs=

Name:
org/codehaus/janino/UnitCompiler$44.class
SHA-256-Digest: eOQh9+jnw7ch9wEKNTsz9o7/0eP2SUigXCtDAMwyYcE=

Name: org/codehaus/janino/util/signature/SignatureParser$FieldTypeSignat
ure.class
SHA-256-Digest: N2+NuWFHZ1RZx9496fAF1ZJGvEzPD0HDUQakUsNdl7M=

Name: org/codehaus/janino/UnitCompiler$39$2.class
SHA-256-Digest: v0C4cp8IgEULwkoz0DWXWtQqavmJ1AU5JJB9AlQ8i3g=

Name: org/codehaus/janino/CodeContext$LineNumberOffset.class
SHA-256-Digest: O3mJ1vFKOtPfeHLsUURK+RmK3MwsizsYZdUvNAqRZuQ=

Name: org/codehaus/janino/Visitor$ModifierVisitor.class
SHA-256-Digest: 9pdPTYi7LL4bTvZ760sgSen3liSLffyzNRXWMVzlcu8=

Name: org/codehaus/janino/util/DeepCopier$3.class
SHA-256-Digest: Sq9J24/wotW8jCZm1evlmXOsPqLy6zXBKgwZe7CO/b8=

Name: org/codehaus/janino/Visitor$FunctionDeclaratorVisitor.class
SHA-256-Digest: SP+ldU26mvhPV+u3S3munJ3ujy3Ytu39H9iDy2bLrkI=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$1.class
SHA-256-Digest: T8YPT6zdg0vlRWJucMcGZiOJgm1eAaWq9gNViDBv10U=

Name:
org/codehaus/janino/Java$ParenthesizedExpression.class
SHA-256-Digest: BGBQABHEibotPB3LvvRUSbbkwGIUKkfN/4Gb/H3OXYs=

Name: org/codehaus/janino/CodeContext$1.class
SHA-256-Digest: qaAFzSTCogLf8JdpXvIazHF3MHqh2Lgp55hDg1qnvAo=

Name: org/codehaus/janino/Unparser$11.class
SHA-256-Digest: ZHsi4ATRMDrXJmanhz9EhofYht7ZRIrVDAzguwbpt4Y=

Name: org/codehaus/janino/Java$TypeArgument.class
SHA-256-Digest: H/vDjlhfHyEod0kFkCG9GHKt5IoXwHMv/sQuwtMAAEM=

Name: org/codehaus/janino/UnicodeUnescapeReader.class
SHA-256-Digest: 9hTrTbAbkflug8d3v+Wm7qIueEQRbTp3D+9P6Bjna+g=

Name: org/codehaus/janino/Java$AbstractCompilationUnit$SingleTypeImportD
eclaration.class
SHA-256-Digest: l3yDE+hL5cfFj/pjjJdrUUsPnn6jXjpeUJzvfXDwayg=

Name: org/codehaus/janino/UnitCompiler$34.class
SHA-256-Digest: C8uMLkxHJDgGQnQkkqtlKVVsyxRfii8j+6sf87qaht4=

Name: org/codehaus/janino/Java$ClassLiteral.class
SHA-256-Digest: F4GlvUSaWMRUN8Se1YyGqBgJINi2L5sENlQuiU8mgcs=

Name: org/codehaus/janino/Java$DocCommentable.class
SHA-256-Digest:
guresSKq91gbKI6MgTs24rNB10lqkTsnBkKJzO2Lwm4=

Name: org/codehaus/janino/util/ClassFile$FloatElementValue.class
SHA-256-Digest: igRR0tgDzu4rAAm2LNZpn4N5+rwWHM7SwEievgSCKCQ=

Name: org/codehaus/janino/Java$PackageMemberInterfaceDeclaration.class
SHA-256-Digest: bco4+JDNeCqGZ/olBi7JzP70nT0YrBYQSGUiv/wFDTQ=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$StackMap
Frame.class
SHA-256-Digest: qsxC23UW9eAMGTiHPBbgUQ5qyqJx+UrrW47GZvGJmtE=

Name: org/codehaus/janino/Java$AbstractCompilationUnit.class
SHA-256-Digest: qM5q3EOODLl/kCgaS1o4VRLlQyTrj3JWlsyPaXGVnR0=

Name: org/codehaus/janino/IClass$IMethod.class
SHA-256-Digest: yqazWVlLBHVZBKmJP+0TtWS1qpu1LETgun55QS3nyeg=

Name: org/codehaus/janino/Parser$InterfaceDeclarationContext.class
SHA-256-Digest: 0+nZUT7HdKruXB6/LvhnQXmPDB08kKoHiqpncaiHK+c=

Name: org/codehaus/janino/Token.class
SHA-256-Digest: xrBhQQFC/9i730OdnaN1iMSHud3kl/NmFN9AN85kNUM=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$4.class
SHA-256-Digest:
lqKNlVSv3By/EGoxZxaMoXfWocgJ23cIjDj0amCYFmA=

Name: org/codehaus/janino/Unparser$7.class
SHA-256-Digest: l72gCYJ6a4YO5ZTGMK1ZKBuk8rx8Te+9t9WK/L4jzN8=

Name: org/codehaus/janino/UnitCompiler$37.class
SHA-256-Digest: VdeSU6BXKsbHQMCwgyUy2/Tbvmmfx8T09sEl+DnF6Qw=

Name: org/codehaus/janino/Visitor$TypeArgumentVisitor.class

SHA-256-Digest: PyBx8wgsEQ4gkF6LtQWinTNaXnrZNegbPe98gd7BKpo=

Name: org/codehaus/janino/Java$ModularCompilationUnit.class
SHA-256-Digest: asX6nmSlbOz0qRVkXVUkcDKdqynLTW1bT/qNwrJ9DxM=

Name: org/codehaus/janino/util/ClassFile$ExceptionsAttribute.class
SHA-256-Digest: rpXtbXBLg4SjuK7OLth3l6eGFh5R+7jgwtOjqgcOM1I=

Name: org/codehaus/janino/util/ClassFile$ByteElementValue.class
SHA-256-Digest: YXbCTCBjM32Y0gBf20m0FP4j2dEYj6VsuTdwwf+cIrg=

Name: org/codehaus/janino/package-info.class
SHA-256-Digest: K+bX0VleOVD0juK0A/QkjJ6dQ5Cd0y9CDdv4A/4qiyg=

Name: org/codehaus/janino/TokenStream.class
SHA-256-Digest: +xgV7207fiBSa/53A5naULgsuxsiBPvG+0fbwydKoWI=

Name:
org/codehaus/janino/util/Traverser.class
SHA-256-Digest: Vxpy4gyEFZSC5+4hWE9YdeT9dKIX30bN9CD9JFK3tlo=

Name: org/codehaus/janino/UnitCompiler$29.class
SHA-256-Digest: OHjX4Fn/QvuFDnvyhBBKeEcco0FP4ULg/A0dK6Kwxsw=

Name: org/codehaus/janino/util/AbstractTraverser$7$2.class
SHA-256-Digest: 9vIxiIp5knwP2UQlqV40nTglsBKNubCOXdmkJ/26T3w=

Name: org/codehaus/janino/Java$ForStatement.class
SHA-256-Digest: vsMSfzGmLrWN9KHUcItOkjga4BfwHFkRBsbhhhDYp64=

Name: org/codehaus/janino/ClassFileIClass.class
SHA-256-Digest: Ilud0boS98fH7nhcOKYE14t7t7Oz7WXdNKQmcch/Vx4=

Name: org/codehaus/janino/util/ClassFile$ClassFileException.class
SHA-256-Digest: iGAuGSmL8IvNb8r+L60K8O0lYEvNEPkfJf4mZmdE9ZA=

Name: org/codehaus/janino/UnitCompiler$Compilable.class
SHA-256-Digest: LCkAPGwvnUJIsh4cuwmJ54xis/NJaqwzfdiR7ZcWlCk=

Name: org/codehaus/janino/Java$LocalVariable.class
SHA-256-Digest: zY9XK+PmtFvAAKT8Kv/Z+VAq2/kqgJ2O9YsIr0zxxOc=

Name: org/codehaus/janino/Unparser$13.class
SHA-256-Digest: gCpVUBqD2ZMoq69Z30zWWBvnzTQeF6SQ1+TYM8Jw5Kw=

Name:
org/codehaus/janino/Java$LocalClassDeclaration.class
SHA-256-Digest: uu3qjniESATYlNQjrAQUoN+cpogE915eP5dY5FZBeAE=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$3.class
SHA-256-Digest: oTvjH9n2kzFjV7ec1fT9nk4SSURjzahAwi3VEWzgQQY=

Name: org/codehaus/janino/Java$AnnotationTypeDeclaration.class
SHA-256-Digest: YhS9MwfjHnXyjaaUIUswjfmxV2QLAf4lo4BhWoS26hg=

Name: org/codehaus/janino/UnitCompiler$40.class
SHA-256-Digest: g93dUSNsJV5c1Nj8z8PYUaDOfZD5hqO/tVmFXfrASHA=

Name: org/codehaus/janino/ReflectionIClass$2.class
SHA-256-Digest: KkeWxpZncsllrGHcBiPLI/1TrAAGsuNwzKcyAEM6Yio=

Name: org/codehaus/janino/util/DeepCopier$1.class
SHA-256-Digest: +hbKJp3hcmdTYdgji/7iGhXwXgS8/YTkMNhGMnzlPAI=

Name: org/codehaus/janino/Java$NewClassInstance.class
SHA-256-Digest: Zb6Nyt3HXFCc+uCWMIKGjJmcRPicM9G6fs+G0TO6SqI=

Name: org/codehaus/janino/util/ClassFile$ConstantMethodHandleInfo.class
SHA-256-Digest: +iVZBVpIFsqvMlaO7Wpb5iikx9qUvLkePJzTMRhYqNE=

Name:
org/codehaus/janino/util/signature/package-info.class
SHA-256-Digest: Xsj685G34t8qyE40frAhRxV+/H2YP6Qhzzz4yCw4Yfc=

Name: org/codehaus/janino/Java$FieldDeclarationOrInitializer.class
SHA-256-Digest: 5Evb7VvZHNmXUlNrrFNrtFCZm6rmO4OU/q9HNT3xsLw=

Name: org/codehaus/janino/util/ClassFile$MethodInfo.class
SHA-256-Digest: OQNgihCuaTb5TBDVi91khEzl5f1Ebqc6aTJxVNE5vVE=

Name: org/codehaus/janino/UnitCompiler$39$1.class
SHA-256-Digest: 8Q8NRh/OIA8mJIOk0VRvHPi6epTogUQQ2fE38Q+f0uI=

Name: org/codehaus/janino/Java$ArrayInitializer.class
SHA-256-Digest: vzMD/LEmqHgDpVPnfNZ6TKfxLS8mq459Z42frA+pBho=

Name: org/codehaus/janino/Java$Invocation.class
SHA-256-Digest: tI2qEzPGs3VYltqnvJl7KUwgzWK+Eaon/+dImMeaKbA=

Name: org/codehaus/janino/Unparser$14.class
SHA-256-Digest: BOFtqN4Bu5PJ28qB1XLzsoXn/Vx3EFN6Q/Po8Vfm1zI=

Name: org/codehaus/janino/util/ClassFile$LocalVariableTableAttribute.cla
ss
SHA-256-Digest: Ni/4X0HaxVreeh8/hI1B8JUUdiONHvATtv2yuvO8tME=

Name: org/codehaus/janino/util/ClassFile$CharElementValue.class
SHA-256-Digest:
26X6p/2zDPpTu7+P1k4ALZTa6ihGwkWc910x2Yuf25Q=

Name: org/codehaus/janino/IClass$PrimitiveIClass.class
SHA-256-Digest: Xe62oauLQu+SU2IhnK8+P01jC3cUmu99oioNGwAZDjk=

Name: org/codehaus/janino/util/AbstractTraverser$7$1.class
SHA-256-Digest: HMqlF23YeSrwVoiKzS6yy27fpPCYcattEvjFEbeVzrA=

Name: org/codehaus/janino/Java$FormalLambdaParameters.class
SHA-256-Digest: O1jJisKdYBjNd07bD3lBZeVTX2r4EW9lD42JLvvZa7w=

Name: org/codehaus/janino/Java$ForEachStatement.class
SHA-256-Digest: 9jrlHZ1rnU+/YVsgAmI3wJl1D59UpgbEVoHC/BKwP4w=

Name: org/codehaus/janino/Java$CatchClause.class
SHA-256-Digest: los3fzcSDecKf9GQFEs37/pmjpASdj1xbG9Zfm5ofYs=

Name: org/codehaus/janino/UnitCompiler$36.class
SHA-256-Digest: QFETa16TDjczF/pTihfcAmN6DIoY8CHk2VwTsXUbgww=

Name: org/codehaus/janino/ITypeVariable.class
SHA-256-Digest: A9vhs87BgJnukJQkhTp3lCwwGj62R6Oh/7va0sl/O8Y=

Name: org/codehaus/janino/Java$CharacterLiteral.class
SHA-256-Digest: QmmXotLYLx00GgN7AAsGfwvOJycuiTtm8MXMmEc6c24=

Name:
org/codehaus/janino/util/ClassFile$DoubleElementValue.class
SHA-256-Digest: lGGYYU2chtAkWO5ruDVn6z3fxeksy1I0F8Z+L4zgD2c=

Name: org/codehaus/janino/Java$LabeledStatement.class
SHA-256-Digest: raDDo8co0U6GprI3T+pM2jlLACOsHcogUDA23vjw60U=

Name: org/codehaus/janino/UnitCompiler$41.class
SHA-256-Digest: jaSsgc280fn0e65PB3WsFezQfkq5XzbM0zeijNxUzRc=

Name: org/codehaus/janino/Java$MemberInterfaceDeclaration.class
SHA-256-Digest: VfDa7SUjOtiZWYYjT9iBePYk4JDzzEvCPNudA79NAqI=

Name: org/codehaus/janino/util/ClassFile$CodeAttribute$ExceptionTableEnt
ry.class
SHA-256-Digest: 73SexmP6HXhyIl6bALpOELixx2GortrUqII9/2TA2Xs=

Name: org/codehaus/janino/Unparser$8.class
SHA-256-Digest: Fn6xISp2Ee0LAFLgRjNwneifXdEaMIrNsTCmRKG4+SE=

Name: org/codehaus/janino/Java$ExpressionLambdaBody.class
SHA-256-Digest: FMBWscxQnqYzYYk4BmNHfl6cqAkKOfwPCpOedqnOIcM=

Name: org/codehaus/janino/UnitCompiler$15$1.class
SHA-256-Digest: cUvrxw7t7TxTD72CdEA2dTsEbUNotQajlaz56rlAYlE=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$2.class
SHA-256-Digest:
KtM9eRP3+RuXGPivGMtWC8oeKMZiu4ZDb1rnCrkcBa0=

Name: org/codehaus/janino/ReflectionIClass$1.class
SHA-256-Digest: uVXV+NCCns88rZPfLP2XL3SQvUr/5kh0P06yIVjiyCA=

Found in path(s):
* /janino-3-1-12-3-jar/META-INF/MANIFEST.MF

1.153 bouncy-castle 1.79

1.153.1 Available under license :

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

public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/asn1/x9/DomainParameters.java
No license file was found, but licenses were detected in source scan.

/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
* <p>
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
* <p>
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/crypto/macs/Poly1305.java
No license file was found, but licenses were detected in source scan.

/**
* SPHINCS-256 signer.
* <p>

* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
* detached signatures.
*
*
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
*
*/

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java
No license file was found, but licenses were detected in source scan.

/**
* The Bouncy Castle License
*
* Copyright (c) 2000-2023 The Legion Of The Bouncy Castle Inc. (https://www.bouncycastle.org)
*
* Permission is hereby granted, free of charge, to any person obtaining a copy of this software
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* LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
* OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
* DEALINGS IN THE SOFTWARE.
*/

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/LICENSE.java
No license file was found, but licenses were detected in source scan.

/**

```
   * Magic value for proprietary OpenSSH private key.
   **/
```

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java
No license file was found, but licenses were detected in source scan.

```
/**
* An implementation of <a href="https://tools.ietf.org/html/rfc7253">RFC 7253 on The OCB
* Authenticated-Encryption Algorithm</a>. For those still concerned about the original patents
* around this, please see:
* <p>
* https://mailarchive.ietf.org/arch/msg/cfrg/qLTveWOdTJcLn4HP3ev-vrj05Vg/
* </p>
* Text reproduced below.
* <blockquote>
* Phillip Rogaway &gt;rogaway@cs.ucdavis.edu&lt; Sat, 27 February 2021 02:46 UTCShow header
*
* I can confirm that I have abandoned all OCB patents
* and placed into the public domain all OCB-related IP of mine.
* While I have been telling people this for quite some time, I don't
* think I ever made a proper announcement to the CFRG or on the
* OCB webpage. Consider that done.
* </blockquote>
*/
```

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/crypto/modes/OCBBlockCipher.java
No license file was found, but licenses were detected in source scan.

```
/**
* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
* <p>
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC
competition,
* released under CC0-1.0 license.
* </p>
*
* <p><a href="https://csrc.nist.gov/CSRC/media/Projects/post-quantum-cryptography/documents/round-
3/submissions/NTRU-Round3.zip">NIST submission files</a></p>
* <p><a href="https://github.com/jschanck/ntru/blob/master/LICENSE">License of reference
implementation</a></p>
*/
```

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/pqc/math/ntru/package-info.java

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

/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see
* {@link org.bouncycastle.pqc.legacy.crypto.ntru}.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
*
*
* NIST submission files
* License of reference implementation
*
* @see NIST round 3 PQC submissions page
* @see NTRU website
* @see NTRU specification
*/

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/pqc/crypto/ntru/package-info.java
No license file was found, but licenses were detected in source scan.

// now keep space is free to use

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/pqc/legacy/crypto/gmss/GMSSPrivateKeyParameters.java

1.154 google-http-client 1.44.1

1.154.1 Available under license :

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

Manifest-Version: 1.0
Implementation-Title: Google HTTP Client Library for Java
Bundle-Description: Google HTTP Client Library for Java. Functionality
 that works on all supported Java platforms, including Java 7 (or
higher) desktop (SE) and web (EE), Android, and Google App Engine.
Automatic-Module-Name: com.google.api.client
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: com.google.http-client.google-http-client
Implementation-Version: 1.44.1

Bnd-LastModified: 1706298314950
Bundle-ManifestVersion: 2
Bundle-DocURL: https://www.google.com/
Bundle-Vendor: Google
Import-Package: javax.annotation;resolution:=optional;version="[3.0,4)
",com.google.api.client.http,com.google.api.client.json,com.google.ap
i.client.json.webtoken,com.google.api.client.testing.util,com.google.
api.client.util,com.google.api.client.util.escape,com.google.common.b
ase;version="[30.1,31)",com.google.common.collect;version="[30.1,31)"
 ,com.google.common.io;version="[30.1,31)",com.google.common.util.conc
urrent;version="[30.1,31)",io.opencensus.common,io.opencensus.contrib
.http.util,io.opencensus.trace,io.opencensus.trace.export,io.opencens
us.trace.propagation,javax.net.ssl,org.apache.http,org.apache.http.cl
ient,org.apache.http.client.methods,org.apache.http.conn,org.apache.h
ttp.conn.params,org.apache.http.conn.routing,org.apache.http.conn.sch
eme,org.apache.http.conn.ssl,org.apache.http.entity,org.apache.http.i
mpl.client,org.apache.http.impl.conn,org.apache.http.impl.conn.tsccm,
org.apache.http.message,org.apache.http.params,org.apache.http.protoc
ol
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: Google
Export-Package: com.google.api.client.testing.http;uses:="com.google.a
pi.client.http,com.google.api.client.util";version="1.44.1",com.googl
e.api.client.testing.http.apache;uses:="org.apache.http,org.apache.ht
 tp.client,org.apache.http.conn,org.apache.http.conn.routing,org.apach
e.http.impl.client,org.apache.http.params,org.apache.http.protocol";v
ersion="1.44.1",com.google.api.client.testing.http.javanet;version="1
.44.1",com.google.api.client.testing.json;uses:="com.google.api.clien
t.json";version="1.44.1",com.google.api.client.testing.json.webtoken;
uses:="com.google.api.client.json.webtoken,javax.net.ssl";version="1.
44.1",com.google.api.client.testing.util;uses:="com.google.api.client
.util";version="1.44.1",com.google.api.client.http;uses:="com.google.
api.client.util,io.opencensus.trace,io.opencensus.trace.propagation,j
avax.annotation";version="1.44.1",com.google.api.client.http.apache;u
ses:="com.google.api.client.http,org.apache.http,org.apache.http.clie
nt,org.apache.http.conn.ssl,org.apache.http.impl.client,org.apache.ht
tp.params";version="1.44.1",com.google.api.client.http.json;uses:="co
m.google.api.client.http,com.google.api.client.json";version="1.44.1"
 ,com.google.api.client.http.javanet;uses:="com.google.api.client.http
,javax.net.ssl";version="1.44.1",com.google.api.client.json;uses:="co
m.google.api.client.util";version="1.44.1",com.google.api.client.json
.webtoken;uses:="com.google.api.client.json,com.google.api.client.uti
l,javax.net.ssl";version="1.44.1",com.google.api.client.json.rpc2;use
s:="com.google.api.client.util";version="1.44.1",com.google.api.clien
t.util;uses:="javax.net.ssl";version="1.44.1",com.google.api.client.u
til.escape;version="1.44.1",com.google.api.client.util.store;version=
"1.44.1"

Bundle-Name: Google HTTP Client Library for Java
Bundle-Version: 1.44.1
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.8

Found in path(s):
* /google-http-client-1-44-1-2-jar/META-INF/MANIFEST.MF

1.155 jboss-logging 3.6.1.Final

1.155.1 Available under license :

Apache License
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source, and configuration files.

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1.156 amqp-client 5.25.0

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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/recovery/TopologyRecoveryRetryHandlerBuilder.java
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/tools/jsonrpc/JsonRpcMapper.java
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/amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/recovery/DefaultRetryHandler.java
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/nio/NioLoop.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/MetricsCollector.java
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* Dropwizard Metrics implementation of {@link MetricsCollector}.
* Note transactions are not supported (see {@link MetricsCollector}.
* Metrics provides out-of-the-box support for report backends like JMX,
* Graphite, Ganglia, or plain HTTP. See Metrics documentation for
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*
* @see MetricsCollector
*/

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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/observation/micrometer/PublishContext.java
*
/amqp-client-5-25-0-sources-jar/com/rabbitmq/client/observation/micrometer/PublishObservationConvention.java
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* Micrometer implementation of {@link MetricsCollector}.
* Note transactions are not supported (see {@link MetricsCollector}.
* Micrometer provides out-of-the-box support for report backends like JMX,
* Graphite, Ganglia, Atlas, Datadog, etc. See Micrometer documentation for
* more details.
*
* Note Micrometer requires Java 8 or more, so does this {@link MetricsCollector}.
*
* @see MetricsCollector
* @since 4.3.0
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/recovery/RecordedQueue.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/TrustEverythingTrustManager.java
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/ChannelManager.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/recovery/RecordedNamedEntity.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/ClientVersion.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/Connection.java
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/SetQueue.java
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1.160 sdk-core 2.27.21

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1.161 auth 2.27.21

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1.162 google-oauth-client 1.35.0

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Manifest-Version: 1.0
Implementation-Title: Google OAuth Client Library for Java
Bundle-Description: Google OAuth Client Library for Java. Functionalit
y that works on all supported Java platforms, including Java 7 (or
higher) desktop (SE) and web (EE), Android, and Google App Engine.
Automatic-Module-Name: com.google.api.client.auth
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: com.google.oauth-client
Implementation-Version: 1.35.0
Bnd-LastModified: 1705579355152
Bundle-ManifestVersion: 2
Bundle-RequiredExecutionEnvironment: JavaSE-1.7
Bundle-DocURL: https://www.google.com/
Bundle-Vendor: Google
Import-Package: com.google.api.client.auth.oauth2,com.google.api.clien

t.http;version="[1.43,2)",com.google.api.client.http.javanet;version=
"[1.43,2)",com.google.api.client.json;version="[1.43,2)",com.google.a
pi.client.json.gson,com.google.api.client.json.webtoken;version="[1.4
3,2)",com.google.api.client.util;version="[1.43,2)",com.google.api.cl
ient.util.escape;version="[1.43,2)",com.google.api.client.util.store;
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gle.common.cache;version="[31.1,32)",com.google.common.collect;versio
n="[31.1,32)",com.google.common.io;version="[31.1,32)",com.google.com
mon.util.concurrent;version="[31.1,32)",javax.crypto,javax.crypto.spe
c
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: Google
Export-Package: com.google.api.client.auth.oauth2;uses:="com.google.ap
i.client.http,com.google.api.client.json,com.google.api.client.util,c
om.google.api.client.util.store";version="1.35.0",com.google.api.clie
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ogle.api.client.http,com.google.api.client.json,com.google.api.client
.json.webtoken,com.google.api.client.util";version="1.35.0",com.googl
e.api.client.auth.oauth;uses:="com.google.api.client.http,com.google.
api.client.util";version="1.35.0"
Bundle-Name: Google OAuth Client Library for Java
Bundle-Version: 1.35.0
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.8

Found in path(s):
* /google-oauth-client-1-35-0-2-jar/META-INF/MANIFEST.MF

1.163 jacoco-agent 0.8.11

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 17
Automatic-Module-Name: org.jacoco.agent
Bnd-LastModified: 1697316834495
Build-Jdk: 17.0.8.1
Built-By: root
Bundle-Description: JaCoCo Agent
Bundle-License: https://www.eclipse.org/legal/epl-2.0/
Bundle-ManifestVersion: 2
Bundle-Name: JaCoCo Agent
Bundle-RequiredExecutionEnvironment: J2SE-1.5
Bundle-SymbolicName: org.jacoco.agent

Bundle-Vendor: Mountainminds GmbH & Co. KG
Bundle-Version: 0.8.11.202310140853
Eclipse-SourceReferences: scm:git:git://github.com/jacoco/jacoco.git;pat
h="org.jacoco.agent";commitId=f33756c37f1e41041d84018047b14cb394742761
Export-Package: org.jacoco.agent;version="0.8.11"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.5))"
Tool: Bnd-3.5.0.201709291849

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* /org-jacoco-agent-0-8-11-jar/META-INF/maven/org.jacoco/org.jacoco.agent/pom.xml
* /org-jacoco-agent-0-8-11-jar/jacocoagent-jar/META-INF/maven/org.jacoco/org.jacoco.agent.rt/pom.xml

1.164 auto-value-annotations 1.10.4

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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoValueOrBuilderTemplateVars.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/TypeSimplifier.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoValueTemplateVars.java
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 *
 * <p>The following annotations are excluded:
 *
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field;
 *   <li>any class annotation which is itself annotated with the {@link
 *       java.lang.annotation.Inherited} meta-annotation.
 * </ol>
 *
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 * method to its implementation, unless {@code @CopyAnnotations} is present and explicitly
 * {@linkplain CopyAnnotations#exclude excludes} that annotation. But annotations are not copied
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 *
 * <p>If you want to copy annotations from your {@literal @}AutoValue-annotated class's methods to
 * the generated fields in the AutoValue_... implementation, annotate your method
 * with {@literal @}AutoValue.CopyAnnotations. For example, if Example.java is:<pre>
 *
 *   {@code @}Immutable
 *   {@code @}AutoValue
 *   abstract class Example {
 *     {@code @}CopyAnnotations
 *     {@code
@}SuppressWarnings("Immutable") // justification ...
 *     abstract Object getObject();
```

```
*     // other details ...
*   }</pre>
*
* <p>Then AutoValue will generate the following AutoValue_Example.java:<pre>
*
*   final class AutoValue_Example extends Example {
*     {@code @}SuppressWarnings("Immutable")
*     private final Object object;
*
*     {@code @}SuppressWarnings("Immutable")
*     {@code @}Override
*     Object getObject() {
*       return object;
*     }
*
*     // other details ...
*   }</pre>
*
* <p>When the <i>type</i> of an {@code @AutoValue} property method has annotations, those are
* part of the type, so by default they are copied to the implementation of the method. But if
* a type annotation is mentioned in {@code exclude} then it is not copied.
*
* <p>For example, suppose {@code @Confidential} is a
* {@link java.lang.annotation.ElementType#TYPE_USE TYPE_USE} annotation:
*
* <pre>
*
 *   {@code @}AutoValue
*   abstract class Person {
*     static Person create({@code @}Confidential String name, int id) {
*       return new AutoValue_Person(name, id);
*     }
*
*     abstract {@code @}Confidential String name();
*     abstract int id();
*   }</pre>
*
* Then the implementation of the {@code name()} method will also have return type
* {@code @Confidential String}. But if {@code name()} were written like this...
*
* <pre>
*
*     {@code @AutoValue.CopyAnnotations(exclude = Confidential.class)}
*     abstract {@code @}Confidential String name();</pre>
*
* <p>...then the implementation of {@code name()} would have return type {@code String} without
* the annotation.
*
```

```
 * @author Carmi Grushko
 */
```

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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/toprettystring/processor/ClassNames.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/toprettystring/processor/ExtensionClassTypeSpecBuilder.java
*
 /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/Nullables.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoBuilderProcessor.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/toprettystring/processor/Annotations.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/toprettystring/ToPrettyString.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/BuilderMethodClassifierForAutoBuilder.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/BuilderMethodClassifierForAutoValue.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/AutoBuilder.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoBuilderTemplateVars.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/toprettystring/processor/ToPrettyStringMethods.java
*
 /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/toprettystring/processor/ToPrettyStringExtension.java

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* /auto-value-annotations-1-10-4-sources-2-
jar/com/google/auto/value/extension/memoized/processor/MemoizeExtension.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/PropertyBuilderClassifier.java
*
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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/AutoValueExtension.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/ExtensionContext.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/BuilderMethodClassifier.java
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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/MissingTypes.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/TemplateVars.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AbortProcessingException.java
*
 /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoAnnotationProcessor.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/Reformatter.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoAnnotationTemplateVars.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/ErrorReporter.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/GwtSerialization.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AnnotationOutput.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoValueBuilderProcessor.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/BuilderSpec.java
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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/SimpleMethod.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoOneOfProcessor.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/AutoOneOf.java
*
/auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoValueishTemplateVars.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/ClassNames.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoOneOfTemplateVars.java
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jar/com/google/auto/value/processor/AutoBuilderAnnotationTemplateVars.java
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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/BuilderRequiredProperties.java
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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/gwtserializer.vm
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/autobuilder.vm
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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/autoannotation.vm
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jar/com/google/auto/value/extension/serializable/serializer/SerializerFactoryLoader.java
* /auto-value-annotations-1-10-4-sources-2-
jar/com/google/auto/value/extension/serializable/serializer/impl/SerializerFactoryImpl.java
* /auto-value-annotations-1-10-4-sources-2-
jar/com/google/auto/value/extension/serializable/processor/SerializableAutoValueExtension.java
*
/auto-value-annotations-1-10-4-sources-2-
jar/com/google/auto/value/extension/serializable/serializer/runtime/FunctionWithExceptions.java
* /auto-value-annotations-1-10-4-sources-2-
jar/com/google/auto/value/extension/serializable/serializer/impl/OptionalSerializerExtension.java
* /auto-value-annotations-1-10-4-sources-2-

jar/com/google/auto/value/extension/serializable/processor/PropertyMirror.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/processor/ClassNames.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/SerializableAutoValue.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/serializer/interfaces/SerializerExtension.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/serializer/impl/ImmutableListSerializerExtension.java
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/auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/serializer/interfaces/Serializer.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/serializer/impl/ImmutableMapSerializerExtension.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/serializer/interfaces/SerializerFactory.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/serializer/impl/IdentitySerializerFactory.java

1.165 java-sizeof 0.0.5

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1.166 gax 2.48.0

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* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/TracedServerStreamingCallable.java

* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatchingCallSettings.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatchingDescriptor.java
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/gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatchingException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/OpencensusTracer.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/Batcher.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/TracedClientStreamingCallable.java
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/ResourceCloseException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/TracedOperationInitialCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatchEntry.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatcherImpl.java
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/internal/ApiCallContextOptions.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/TimedRetryAlgorithmWithContext.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/ResultRetryAlgorithmWithContext.java
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/gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/mtls/ContextAwareMetadataJson.java
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ResourceExhaustedException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/InvalidArgumentException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ApiClientHeaderProvider.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/ExecutorAsBackgroundResource.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/SpoolingResponseObserver.java
*
 /gax-2-48-0-sources-1-jar/com/google/api/gax/paging/AsyncPage.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/PermissionDeniedException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ResponseObserver.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/DirectRetryingExecutor.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/PartitionKey.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/ExponentialPollAlgorithm.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/TimedRetryAlgorithm.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/CheckingAttemptCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ServerStreamIterator.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/FirstElementCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/ResultRetryAlgorithm.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ApiExceptionFactory.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/FixedHeaderProvider.java
*
 /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ClientContext.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/FixedTransportChannelProvider.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatchMerger.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/RecheckingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/UnaryCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ServerStreamingCallSettings.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/OperationCheckingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/NoCredentialsProvider.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/DataLossException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/RequestBuilder.java

* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/StatusCode.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ServerStream.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/BaseBackgroundResource.java
*
 /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/Semaphore64.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/ExponentialRetryAlgorithm.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/CallbackChainRetryingFuture.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/LongRunningClient.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/NonCancellableFuture.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ClientStreamingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/QueuingResponseObserver.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/OutOfRangeException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/longrunning/OperationSnapshot.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/InternalException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/RequestParamsEncoder.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/BackgroundResource.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/OperationCallable.java
*
 /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/RetryAlgorithm.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/DeadlineExceededException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/RequestUrlParamsEncoder.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/longrunning/OperationResponsePollAlgorithm.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ApiStreamObserver.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ApiCallContext.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/FailedPreconditionException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/Callables.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/GaxProperties.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ApiResultRetryAlgorithm.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/UnauthenticatedException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/CancelledException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/AlreadyExistsException.java
*
 /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/NoHeaderProvider.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/SpoolingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/BasicRetryingFuture.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/AsyncTaskException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ServerStreamingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/TimedAttemptSettings.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/TransportChannel.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/NotFoundException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/ScheduledRetryingExecutor.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/PageContext.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/RetryingFuture.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/PollException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/Batch.java
*
 /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/BasicResultRetryAlgorithm.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/HeaderProvider.java

* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/TranslatingUnaryCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/UnknownException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/UnavailableException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/AttemptCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/FirstElementResponseObserver.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/longrunning/OperationFuture.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/RequestParamsExtractor.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/StreamController.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/RetryingExecutor.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/longrunning/OperationTimedPollAlgorithm.java
*
/gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/UnimplementedException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/AbortedException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/paging/Pages.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/BackgroundResourceAggregation.java
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```
/**
  * Instantiates a new instance capturing the {@link io.opencensus.trace.Tracer} in {@code
  * Tracing.getTracer}. It will also override the service name of the grpc stub with a custom
  * client name. This is useful disambiguate spans created outer manual written wrappers and around
  * generated gapic spans.
  *
  * @param spanAttributes the attributes to stamp on every span. Should
 include things like library
  *     version.
  */
```

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* /gax-2-48-0-sources-1-jar/com/google/api/gax/nativeimage/NativeImageUtils.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/nativeimage/OpenCensusFeature.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ProtocolBufferParsingException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/nativeimage/GoogleJsonClientFeature.java
*
 /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/RequestParamsBuilder.java
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/MetricsTracer.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/MetricsTracerFactory.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/OpenTelemetryMetricsRecorder.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/MetricsRecorder.java
*
 /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/RequestMutator.java

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* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ClientStreamReadyObserver.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/longrunning/OperationFutures.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/RetryingExecutorWithContext.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/SimpleStreamResumptionStrategy.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/FixedWatchdogProvider.java
*
 /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/StreamResumptionStrategy.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/SpanName.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/ServerStreamingAttemptException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/internal/Headers.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/RetryingServerStreamingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/StubSettings.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/BaseApiTracerFactory.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/WatchdogProvider.java
```

* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/ApiTracer.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/ApiTracerFactory.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/TracedUnaryCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/BidiStreamingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/RetryingContext.java
*
/gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/TraceFinisher.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ClientStream.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/NonBlockingSemaphore.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/InstantiatingWatchdogProvider.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BlockingSemaphore.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ApiStreamObserverAdapter.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/WatchdogServerStreamingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/StreamingRetryAlgorithm.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/BaseApiTracer.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/WatchdogTimeoutException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/Watchdog.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/BidiStream.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/StateCheckingResponseObserver.java
*
/gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ServerStreamingAttemptCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/BidiStreamObserver.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/NoopRetryingContext.java
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/RetrySettings.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/paging/Page.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/FixedExecutorProvider.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/paging/AbstractPagedListResponse.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/paging/AbstractPage.java
*
 /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/AccumulatingBatchReceiver.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/ThresholdBatchReceiver.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatchingThreshold.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/BatchingDescriptor.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/paging/AbstractFixedSizeCollection.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/BatchedRequestIssuer.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/PagedCallSettings.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/OperationCallSettings.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/longrunning/OperationFutureImpl.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/InstantiatingExecutorProvider.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/BatchingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/PagedCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/ThresholdBatcher.java
*
 /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ApiException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/UnaryCallSettings.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/FlowController.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/PagedListResponseFactory.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatchingThresholds.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatchingSettings.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/FlowControlSettings.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/BatcherFactory.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/OperationCallableImpl.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/ExecutorProvider.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/PagedListDescriptor.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/StreamingCallSettings.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/FixedCredentialsProvider.java
*
 /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/NumericThreshold.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/CredentialsProvider.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/paging/FixedSizeCollection.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/ElementCounter.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ApiExceptions.java

* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/Distribution.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/BatchingCallSettings.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/RetryingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/TransportChannelProvider.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/BatchedFuture.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ClientSettings.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/BatchExecutor.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/GoogleCredentialsProvider.java
*
/gax-2-48-0-sources-1-jar/com/google/api/gax/paging/PagedListResponse.java
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/DefaultBatchResource.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/EndpointContext.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatchResource.java

1.167 grpc-alts 1.62.2

1.167.1 Available under license :

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Found in path(s):
* /grpc-alts-1-62-2-3-jar/grpc/gcp/handshaker.proto
* /grpc-alts-1-62-2-3-jar/grpc/gcp/transport_security_common.proto
* /grpc-alts-1-62-2-3-jar/grpc/gcp/altscontext.proto

1.168 jedis 6.0.0

1.168.1 Available under license :

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// "- 1" because we just did one, but the attemptsLeft counter hasn't been decremented yet
/**
  * Related values should be reset if <code>TRUE</code> is returned.
  *
  * @param attemptsLeft
  * @param consecutiveConnectionFailures
  * @param doneDeadline
  * @return true - if some actions are taken
  *
 false - if no actions are taken
  */

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/executors/ClusterCommandExecutor.java
* /jedis-6-0-0-sources-jar/redis/clients/jedis/executors/RetryableCommandExecutor.java
No license file was found, but licenses were detected in source scan.

public String clusterSetSlotNode(final int slot, final String nodeId) {
connection.sendCommand(CLUSTER, ClusterKeyword.SETSLOT.getRaw(), toByteArray(slot),
ClusterKeyword.NODE.getRaw(), encode(nodeId));
public String clusterSetSlotMigrating(final int slot, final String nodeId) {
connection.sendCommand(CLUSTER, ClusterKeyword.SETSLOT.getRaw(), toByteArray(slot),
ClusterKeyword.MIGRATING.getRaw(), encode(nodeId));
public String clusterSetSlotImporting(final int slot, final String nodeId) {
connection.sendCommand(CLUSTER, ClusterKeyword.SETSLOT.getRaw(), toByteArray(slot),

ClusterKeyword.IMPORTING.getRaw(), encode(nodeId));
public String clusterSetSlotStable(final int slot) {
connection.sendCommand(CLUSTER, ClusterKeyword.SETSLOT.getRaw(), toByteArray(slot),
ClusterKeyword.STABLE.getRaw());

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/Jedis.java
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GETKEYSINSLOT, SETSLOT, NODE, MIGRATING, IMPORTING, STABLE, FORGET, FLUSHSLOTS, KEYSLOT,

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/Protocol.java
No license file was found, but licenses were detected in source scan.

String clusterSetSlotNode(int slot, String nodeId);
String clusterSetSlotMigrating(int slot, String nodeId);
String clusterSetSlotImporting(int slot, String nodeId);
String clusterSetSlotStable(int slot);

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/commands/ClusterCommands.java
No license file was found, but licenses were detected in source scan.

```
package redis.clients.jedis.timeseries;

import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.function.Function;
import java.util.stream.Collectors;

import redis.clients.jedis.Builder;
import redis.clients.jedis.BuilderFactory;
import redis.clients.jedis.util.KeyValue;

public final class TimeSeriesBuilderFactory {

 public static final Builder<TSElement> TIMESERIES_ELEMENT = new Builder<TSElement>() {
   @Override
   public TSElement build(Object data) {
     List<Object> list = (List<Object>) data;
     if (list == null || list.isEmpty()) return null;
     return new TSElement(BuilderFactory.LONG.build(list.get(0)), BuilderFactory.DOUBLE.build(list.get(1)));
   }
 };
```

```
 public static final Builder<List<TSElement>> TIMESERIES_ELEMENT_LIST = new
Builder<List<TSElement>>() {
  @Override
  public List<TSElement> build(Object data) {
    return ((List<Object>) data).stream().map((pairObject)
-> (List<Object>) pairObject)
        .map((pairList) -> new TSElement(BuilderFactory.LONG.build(pairList.get(0)),
           BuilderFactory.DOUBLE.build(pairList.get(1))))
        .collect(Collectors.toList());
  }
};

public static final Builder<Map<String, TSMRangeElements>> TIMESERIES_MRANGE_RESPONSE
   = new Builder<Map<String, TSMRangeElements>>() {
  @Override
  public Map<String, TSMRangeElements> build(Object data) {
    return ((List<Object>) data).stream().map((tsObject) -> (List<Object>) tsObject)
        .map((tsList) -> new TSMRangeElements(BuilderFactory.STRING.build(tsList.get(0)),
           BuilderFactory.STRING_MAP_FROM_PAIRS.build(tsList.get(1)),
           TIMESERIES_ELEMENT_LIST.build(tsList.get(2))))
        .collect(Collectors.toMap(TSMRangeElements::getKey, Function.identity(),
           (x, y) -> x, LinkedHashMap::new));
  }
};

public static final Builder<Map<String, TSMRangeElements>> TIMESERIES_MRANGE_RESPONSE_RESP3
    = new Builder<Map<String, TSMRangeElements>>() {
  @Override
  public Map<String, TSMRangeElements> build(Object data) {
    List<KeyValue> dataList = (List<KeyValue>) data;
    Map<String, TSMRangeElements> map = new LinkedHashMap<>(dataList.size() / 2, 1f);
    for (KeyValue kv : dataList) {
      String key = BuilderFactory.STRING.build(kv.getKey());
      List<Object> valueList = (List<Object>) kv.getValue();
      TSMRangeElements elements;
      switch (valueList.size()) {
        case 3:
          List<Object> aggrMapObj = (List<Object>) valueList.get(1);
          KeyValue aggKV = (KeyValue) aggrMapObj.get(0);
          assert "aggregators".equalsIgnoreCase(BuilderFactory.STRING.build(aggKV.getKey()));
          elements = new TSMRangeElements(key,
             BuilderFactory.STRING_MAP.build(valueList.get(0)),
             ((List<Object>) aggKV.getValue()).stream().map(BuilderFactory.STRING::build)

          .map(AggregationType::safeValueOf).collect(Collectors.toList()),
             TIMESERIES_ELEMENT_LIST.build(valueList.get(2)));
          break;
        case 4:
```

```
        List<KeyValue> rdcMapObj = (List<KeyValue>) valueList.get(1);
        assert "reducers".equalsIgnoreCase(BuilderFactory.STRING.build(rdcMapObj.get(0).getKey()));
        List<KeyValue> srcMapObj = (List<KeyValue>) valueList.get(2);
        assert "sources".equalsIgnoreCase(BuilderFactory.STRING.build(srcMapObj.get(0).getKey()));
        elements = new TSMRangeElements(key,
           BuilderFactory.STRING_MAP.build(valueList.get(0)),
           BuilderFactory.STRING_LIST.build(rdcMapObj.get(0).getValue()),
           BuilderFactory.STRING_LIST.build(srcMapObj.get(0).getValue()),
           TIMESERIES_ELEMENT_LIST.build(valueList.get(3)));
        break;
      default:
        throw new IllegalStateException();
     }
     map.put(key, elements);
    }
   return map;
  }
};

public static final Builder<Map<String, TSMGetElement>> TIMESERIES_MGET_RESPONSE
   = new Builder<Map<String, TSMGetElement>>() {
 @Override
 public Map<String, TSMGetElement> build(Object data) {
  return ((List<Object>) data).stream().map((tsObject) -> (List<Object>) tsObject)
     .map((tsList) -> new TSMGetElement(BuilderFactory.STRING.build(tsList.get(0)),
        BuilderFactory.STRING_MAP_FROM_PAIRS.build(tsList.get(1)),
        TIMESERIES_ELEMENT.build(tsList.get(2))))
     .collect(Collectors.toMap(TSMGetElement::getKey, Function.identity()));
 }
};

public static final Builder<Map<String, TSMGetElement>> TIMESERIES_MGET_RESPONSE_RESP3
   = new Builder<Map<String, TSMGetElement>>() {
 @Override
 public Map<String, TSMGetElement> build(Object data) {
  List<KeyValue> dataList = (List<KeyValue>) data;
  Map<String, TSMGetElement> map = new LinkedHashMap<>(dataList.size());
  for
(KeyValue kv : dataList) {
    String key = BuilderFactory.STRING.build(kv.getKey());
    List<Object> valueList = (List<Object>) kv.getValue();
    TSMGetElement value = new TSMGetElement(key,
       BuilderFactory.STRING_MAP.build(valueList.get(0)),
       TIMESERIES_ELEMENT.build(valueList.get(1)));
    map.put(key, value);
  }
  return map;
 }
```

```
 };

 private TimeSeriesBuilderFactory() {
   throw new InstantiationError("Must not instantiate this class");
 }
}
```

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/timeseries/TimeSeriesBuilderFactory.java
No license file was found, but licenses were detected in source scan.

```
public void assignSlotsToNode(List<Integer> targetSlots, HostAndPort targetNode) {
for (Integer slot : targetSlots) {
public void assignSlotsToReplicaNode(List<Integer> targetSlots, HostAndPort targetNode) {
for (Integer slot : targetSlots) {
public ConnectionPool getSlotPool(int slot) {
public HostAndPort getSlotNode(int slot) {
public List<ConnectionPool> getSlotReplicaPools(int slot) {
```

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/JedisClusterInfoCache.java
No license file was found, but licenses were detected in source scan.

```
public List<List<Long>> getSlots() {
```

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/resps/ClusterShardInfo.java
No license file was found, but licenses were detected in source scan.

```
try (Connection connection = getConnectionFromSlot(JedisClusterCRC16.getSlot(channels[0]))) {
try (Connection connection = getConnectionFromSlot(JedisClusterCRC16.getSlot(channels[0]))) {
```

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/JedisCluster.java
No license file was found, but licenses were detected in source scan.

```
public static int getSlot(String key) {
public static int getSlot(byte[] key) {
```

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/util/JedisClusterCRC16.java
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```
public final int getSlot() {
```

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/exceptions/JedisRedirectionException.java

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```
package redis.clients.jedis;

import redis.clients.jedis.commands.ProtocolCommand;
import redis.clients.jedis.exceptions.JedisClusterOperationException;
import redis.clients.jedis.util.JedisClusterCRC16;

public class ClusterCommandArguments extends CommandArguments {

 private int commandHashSlot = -1;

 public ClusterCommandArguments(ProtocolCommand command) {
  super(command);
 }

 public int getCommandHashSlot() {
  return commandHashSlot;
 }

 @Override
 protected CommandArguments processKey(byte[] key) {
  final int hashSlot = JedisClusterCRC16.getSlot(key);
  if (commandHashSlot < 0) {
   commandHashSlot = hashSlot;
  } else if (commandHashSlot != hashSlot) {
   throw new JedisClusterOperationException("Keys must belong to same hashslot.");
  }
  return this;
 }

 @Override
 protected CommandArguments processKey(String key) {
  final int hashSlot = JedisClusterCRC16.getSlot(key);
   if (commandHashSlot < 0) {
    commandHashSlot = hashSlot;
  } else if (commandHashSlot != hashSlot) {
   throw new JedisClusterOperationException("Keys must belong to same hashslot.");
  }
  return this;
 }
}
```

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/ClusterCommandArguments.java
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```
/*
```

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*/

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/util/MurmurHash.java
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return slot >= 0 ? cache.getSlotNode(slot) : null;
ConnectionPool connectionPool = cache.getSlotPool(slot);
connectionPool = cache.getSlotPool(slot);
List<ConnectionPool> connectionPools = cache.getSlotReplicaPools(slot);
connectionPools = cache.getSlotReplicaPools(slot);

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/providers/ClusterConnectionProvider.java
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*/

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/util/RedisInputStream.java

1.169 txw2 4.0.6

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Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-ri
* https://github.com/eclipse-ee4j/jaxb-istack-commons
* https://github.com/eclipse-ee4j/jaxb-dtd-parser
* https://github.com/eclipse-ee4j/jaxb-fi
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 https://github.com/eclipse-ee4j/jaxb-stax-ex
* https://github.com/eclipse-ee4j/jax-rpc-ri

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* Source:
  https://svn.apache.org/viewvc/maven/shared/tags/file-management-3.0.0/

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* License: Apache-2.0
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* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2

maven-core
(3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-core/index.html
* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2

maven-plugin-annotations (3.5)

* License: Apache-2.0
* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
* Source:
  https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

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maven-resolver-spi (1.1.1)

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maven-resolver-transport-file (1.1.1)

* License: Apache-2.0
* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source:
  https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

maven-resolver-util (1.1.1)

* License: Apache-2.0

maven-settings
 (3.5.2)

* License: Apache-2.0
* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2

OSGi Service Platform Core Companion Code (6.0)

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plexus-archiver (3.5)

* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

plexus-io (3.0.0)

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1.170 javax-activation 2.1.4

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1.176 commons-io 2.19.0

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Manifest-Version: 1.0
Bnd-LastModified: 1717253512851
Build-Jdk-Spec: 1.8
Bundle-Description: Java Concurrency Tools Core Library
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Java Concurrency Tools Core Library
Bundle-SymbolicName: org.jctools.core
Bundle-Version: 4.0.5
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: org.jctools.maps;version="4.0.5",org.jctools.util;vers
ion="4.0.5";uses:="sun.misc",org.jctools.queues;version="4.0.5",org.j
ctools.queues.atomic;version="4.0.5";uses:="org.jctools.queues",org.j
ctools.queues.atomic.unpadded;version="4.0.5";uses:="org.jctools.queu
es",org.jctools.queues.unpadded;version="4.0.5";uses:="org.jctools.qu
eues",org.jctools.counters;version="4.0.5"
Import-Package: sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"

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1.179 jakarta-transaction-api 2.0.1

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1.185 ganymed-ssh2 262

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1.186 j2objc-annotations 3.0.0

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Maven project to build and deploy J2ObjC annotations.
-->

Found in path(s):
* /j2objc-annotations-3-0-0-jar/META-INF/maven/com.google.j2objc/j2objc-annotations/pom.xml

1.187 json-utils 2.27.21

1.187.1 Available under license :

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1.188 utils 2.27.21

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1.194 http-auth 2.27.21

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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/regexp/ParseException.java
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 /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/regexp/Token.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/regexp/BMPattern.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/regexp/Op.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/DurationType.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/NameType.java

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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/UnsignedLongType.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/datetime/ITimeDurationValueType.java
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jloup@gzip.org madler@alumni.caltech.edu
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Multi-producer/multi-consumer bounded queue.

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- Path: compiler/tests-common/tests/org/jetbrains/kotlin/codegen/ir/ComposeLikeGenerationExtension.kt
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1.201 org.jacoco.agent.rt 0.8.11

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* /org-jacoco-agent-rt-0-8-11-sources-jar/org/jacoco/agent/rt/RT.java
* /org-jacoco-agent-rt-0-8-11-sources-jar/org/jacoco/agent/rt/internal/output/TcpClientOutput.java
* /org-jacoco-agent-rt-0-8-11-sources-jar/org/jacoco/agent/rt/internal/ClassFileDumper.java
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 /org-jacoco-agent-rt-0-8-11-sources-jar/com/vladium/emma/rt/package-info.java
* /org-jacoco-agent-rt-0-8-11-sources-jar/org/jacoco/agent/rt/internal/ConfigLoader.java
* /org-jacoco-agent-rt-0-8-11-sources-jar/org/jacoco/agent/rt/internal/CoverageTransformer.java
* /org-jacoco-agent-rt-0-8-11-sources-jar/org/jacoco/agent/rt/internal/Agent.java
* /org-jacoco-agent-rt-0-8-11-sources-jar/org/jacoco/agent/rt/internal/IExceptionLogger.java
* /org-jacoco-agent-rt-0-8-11-sources-jar/org/jacoco/agent/rt/package-info.java
* /org-jacoco-agent-rt-0-8-11-sources-jar/org/jacoco/agent/rt/internal/Offline.java
* /org-jacoco-agent-rt-0-8-11-sources-jar/org/jacoco/agent/rt/internal/PreMain.java
* /org-jacoco-agent-rt-0-8-11-sources-jar/org/jacoco/agent/rt/internal/JmxRegistration.java
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1.202 event-stream 1.0.1

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1.203 google-cloud-firestore 3.21.1

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* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/CollectionReference.java
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* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/TransactionOptions.java

* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/Blob.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/UpdateBuilder.java
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* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/spi/v1/GrpcFirestoreRpc.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/WriteResult.java
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* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/v1/package-info.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/v1/FirestoreClient.java
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* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/v1/stub/HttpJsonFirestoreStub.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/v1/stub/FirestoreStubSettings.java
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* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/BulkWriterOptions.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/BulkCommitBatch.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/QueryPartition.java
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* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/ExplainMetrics.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/ExplainOptions.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/ExecutionStats.java
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 /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/ExplainResults.java
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* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/AggregateQuery.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/AggregateQuerySnapshot.java
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1.204 ip-address 5.5.1

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1.205 okhttp 4.12.0

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1.206 gax-httpjson 2.48.0

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* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/longrunning/OperationsClient.java
* /gax-httpjson-2-48-0-sources-1-
jar/com/google/api/gax/httpjson/longrunning/stub/HttpJsonOperationsCallableFactory.java
*
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* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/HttpJsonLongRunningClient.java
* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/longrunning/stub/OperationsStubSettings.java
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* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/HttpJsonOperationSnapshot.java
* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/OperationSnapshotFactory.java
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* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/ProtoMessageRequestFormatter.java
* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/RestSerializationException.java
*
/gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/ProtoOperationTransformers.java
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* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/HttpJsonCallContext.java
* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/HttpJsonCallOptions.java
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/gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/HttpJsonExceptionCallable.java
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* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/HttpJsonMetadata.java
* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/HttpJsonExceptionResponseObserver.java
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 /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/HttpJsonHeaderInterceptor.java
* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/ForwardingHttpJsonClientCallListener.java
* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/HttpJsonClientCall.java
* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/ForwardingHttpJsonClientCall.java
* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/HttpJsonClientCalls.java
* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/HttpJsonDirectServerStreamingCallable.java
* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/HttpJsonStatusRuntimeException.java
* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/ManagedHttpJsonInterceptorChannel.java
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* /gax-httpjson-2-48-0-sources-1-jar/com/google/api/gax/httpjson/HttpJsonClientInterceptor.java
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1.209 jaxb-core 4.0.5

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/opt/cola/permits/2715573990_1762987533.8963053/0/hikaricp-6-3-3-sources-jar/com/zaxxer/hikari/util/ClockSource.java/*
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/opt/cola/permits/2715573990_1762987533.8963053/0/hikaricp-6-3-3-sources-jar/com/zaxxer/hikari/util/DriverDataSource.java/*
/opt/cola/permits/2715573990_1762987533.8963053/0/hikaricp-6-3-3-sources-jar/com/zaxxer/hikari/util/FastList.java/*
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/opt/cola/permits/2715573990_1762987533.8963053/0/hikaricp-6-3-3-sources-jar/com/zaxxer/hikari/util/JavassistProxyFactory.java/*
/opt/cola/permits/2715573990_1762987533.8963053/0/hikaricp-6-3-3-sources-jar/com/zaxxer/hikari/util/PropertyElf.java/*
/opt/cola/permits/2715573990_1762987533.8963053/0/hikaricp-6-3-3-sources-jar/com/zaxxer/hikari/util/SuspendResumeLock.java/*
/opt/cola/permits/2715573990_1762987533.8963053/0/hikaricp-6-3-3-sources-jar/com/zaxxer/hikari/util/UtilityElf.java/*

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* /okio-3-6-0-sources-jar/unixMain/okio/UnixFileHandle.kt
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* /okio-3-6-0-sources-jar/hashFunctions/okio/internal/Md5.kt
* /okio-3-6-0-sources-jar/hashFunctions/okio/internal/Sha1.kt
* /okio-3-6-0-sources-jar/hashFunctions/okio/internal/Sha256.kt
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* /okio-3-6-0-sources-jar/commonMain/okio/Timeout.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/RealBufferedSink.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/Buffer.kt
* /okio-3-6-0-sources-jar/commonMain/okio/BufferedSink.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/Timeout.kt
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 /okio-3-6-0-sources-jar/commonMain/okio/Buffer.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/BufferedSink.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/Sink.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/BufferedSource.kt
* /okio-3-6-0-sources-jar/commonMain/okio/internal/Buffer.kt
* /okio-3-6-0-sources-jar/commonMain/okio/RealBufferedSource.kt
* /okio-3-6-0-sources-jar/commonMain/okio/Sink.kt
* /okio-3-6-0-sources-jar/commonMain/okio/Source.kt
* /okio-3-6-0-sources-jar/commonMain/okio/BufferedSource.kt
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* /okio-3-6-0-sources-jar/nonAppleMain/okio/ByteString.kt
* /okio-3-6-0-sources-jar/commonMain/okio/Util.kt
* /okio-3-6-0-sources-jar/commonMain/okio/CommonPlatform.kt
* /okio-3-6-0-sources-jar/commonMain/okio/internal/ByteString.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/NonJvmPlatform.kt
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 /okio-3-6-0-sources-jar/commonMain/okio/ByteString.kt
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* /okio-3-6-0-sources-jar/commonMain/okio/internal/SegmentedByteString.kt
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* /okio-3-6-0-sources-jar/commonMain/okio/SegmentPool.kt
* /okio-3-6-0-sources-jar/commonMain/okio/ForwardingSource.kt
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* /okio-3-6-0-sources-jar/unixMain/okio/UnixPosixVariant.kt
* /okio-3-6-0-sources-jar/commonMain/okio/internal/Path.kt
* /okio-3-6-0-sources-jar/linuxMain/okio/LinuxPosixVariant.kt
* /okio-3-6-0-sources-jar/nativeMain/okio/PosixFileSystem.kt
* /okio-3-6-0-sources-jar/hashFunctions/okio/internal/Hmac.kt
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/okio-3-6-0-sources-jar/nativeMain/okio/PosixVariant.kt
* /okio-3-6-0-sources-jar/commonMain/okio/HashingSource.kt
* /okio-3-6-0-sources-jar/nativeMain/okio/FileSource.kt
* /okio-3-6-0-sources-jar/appleMain/okio/ApplePosixVariant.kt
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* /okio-3-6-0-sources-jar/commonMain/okio/FileSystem.kt
* /okio-3-6-0-sources-jar/commonMain/okio/HashingSink.kt
* /okio-3-6-0-sources-jar/commonMain/okio/FileMetadata.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/Path.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/HashingSink.kt
* /okio-3-6-0-sources-jar/commonMain/okio/ForwardingFileSystem.kt
* /okio-3-6-0-sources-jar/commonMain/okio/ExperimentalFileSystem.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/HashingSource.kt
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1.215 annotations 4.1.1.4

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1.216 c3p0 0.9.5.4

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1.217 error_prone_annotations 2.5.1

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1.218 pop 2.0.5

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1.222 classmate 1.7.1

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"Sergey Nuyanzin" : "https://github.com/snuyanzin",
"Sidi Mohamed EL AATIFI" : "https://github.com/elaatifi",
"Simon Stelling" : "https://github.com/stellingsimon",
"Simon Strassl" : "https://github.com/strassl",
"Steinar Bang" : "https://github.com/steinarb",
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"Steve Ungerer" : "https://github.com/scubasau",
"Sualeh Fatehi" : "https://github.com/sualeh",
"Svein Baardsen" : "N/A",

"Tanya Gordeeva" : "https://github.com/tmgordeeva",
"Thach Hoang" : "https://github.com/thachhoang",
"Tim Ward" : "https://github.com/timothyjward",
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"Vsevolod Kaimashnikov" : "https://github.com/vsevolodk",
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"tienne BERSAC" : "https://github.com/bersace",
"" : "https://github.com/TeslaCN",
"Andrei Paikin" : "andreypaykin@gmail.com",
"JoelRabinovitch" : "joel.rabinovitch@tecsys.com",
"Marek Lll" : "42849684+MarekUniq@users.noreply.github.com",
"Mark Grobaker" : "5614366+mgrobaker@users.noreply.github.com",
"Micha Wyrzykowski" : "w.michal1@gmail.com",
"Nick Burgan" : "13688219+nmburgan@users.noreply.github.com",
"Sergey Prytkov" : "shallowstack@gmail.com",
"Zuzana Miklankova"
: "90186537+zmiklank@users.noreply.github.com",
"marcmuel" : "marcus.mueller@schwarz-infosysteme.de",
"Fabio Cechinel Veronez" : "fabio.veronez@gmail.com",
"Uwe Schindler" : "uwe@thetaphi.de",
"Wei Su" : "suwei19870312@gmail.com",
"paulo-kluh" : "80355988+paulo-kluh@users.noreply.github.com",
"Dmitriy Mukhin" : "mitya555@users.noreply.github.com",
"Olivier Bourgain" : "olivierbourgain02@gmail.com",
"Andrei Lurie" : "alurie@users.noreply.github.com",
"Sven Diedrichsen" : "sven.diedrichsen@gmail.com",
"Sasa Vilic" : "sasavilic@gmail.com",
"Evgeniy Devyatykh" : "devyatyh@gmail.com",
"Josh Soref" : "2119212+jsoref@users.noreply.github.com",
"Kevin222004" : "kevinpatel222004@gmail.com",
"Knut Olav Lite" : "koloite@gmail.com",
"tkarsh" : "61664827+utkar-sh-ukla@users.noreply.github.com",
"Brendan MacDonell" : "macdonellba@gmail.com",
"Declan Murphy" : "declan.murphy@flightclub.io",
"Faizan Qazi" : "fqazi@users.noreply.github.com",

"George Gastaldi" : "gegastaldi@gmail.com",
"Jelte Fennema" : "github-tech@jeltef.nl",
"Martin Desruisseaux" : "martin.desruisseaux@geomatys.com",
"Nathan VanBenschoten" : "nvanbenschoten@gmail.com",
"maffe" : "maffe@users.noreply.github.com",
"zhurs" : "sergey.zhuravlev@gmail.com",
"ng-galien" : "33391039+ng-galien@users.noreply.github.com",
"Alan" : "31561207+ajacob98@users.noreply.github.com",
"Chris [SpareParts365]" : "56319603+Chris-SP365@users.noreply.github.com",
"Christian Beikov" : "christian.beikov@gmail.com",

"Guoyu Feng" : "feng_guoyu@uxsino.com",
"Hans Ginzel" : "hans@matfyz.cz",
"Japin Li" : "japinli@hotmail.com",
"Mend Renovate" : "bot@renovateapp.com",
"Philipp Menke" : "github@pmenke.de",
"SheerazMajeedM" : "sheerazmajeed01@gmail.com",
"Vishal Raj" : "vishalraj1802@gmail.com",
"imran zaheer" : "izaheer612@gmail.com",
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}

1.224 jaxb-core 4.0.6

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1.225 lombok 1.18.42

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1.228 jaxb-runtime 4.0.6

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1.229 httpcomponents-client 5.5.1

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1.245 spring-data-redis 3.5.7

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1.248 spring-boot 3.5.9

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1.249 micrometer-core 1.15.7

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- 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
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- 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
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org.apache.tomcat.util.json.JSONParser.jj is
 a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

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 /bson-5-5-2-sources-jar/org/bson/codecs/BsonDocumentWrapperCodec.java
* /bson-5-5-2-sources-jar/org/bson/types/MinKey.java
* /bson-5-5-2-sources-jar/org/bson/codecs/BsonInt32Codec.java
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 /bson-5-5-2-sources-jar/org/bson/BSONCallback.java
* /bson-5-5-2-sources-jar/org/bson/BsonJavaScriptWithScope.java
* /bson-5-5-2-sources-jar/org/bson/LazyBSONDecoder.java
* /bson-5-5-2-sources-jar/org/bson/codecs/pojo/annotations/BsonDiscriminator.java
* /bson-5-5-2-sources-jar/org/bson/types/BasicBSONList.java
* /bson-5-5-2-sources-jar/org/bson/BsonContextType.java
* /bson-5-5-2-sources-jar/org/bson/json/ShellObjectIdConverter.java
* /bson-5-5-2-sources-jar/org/bson/codecs/CollectibleCodec.java
* /bson-5-5-2-sources-jar/org/bson/codecs/DocumentCodecProvider.java
* /bson-5-5-2-sources-jar/org/bson/types/Binary.java
* /bson-5-5-2-sources-jar/org/bson/codecs/jsr310/DateTimeBasedCodec.java
* /bson-5-5-2-sources-jar/org/bson/BsonInvalidOperationException.java
* /bson-5-5-2-sources-jar/org/bson/json/ExtendedJsonDateTimeConverter.java
* /bson-5-5-2-sources-jar/org/bson/BsonBinaryReader.java
* /bson-5-5-2-sources-jar/org/bson/json/ShellInt64Converter.java
* /bson-5-5-2-sources-jar/org/bson/codecs/pojo/LazyMissingCodec.java
*
 /bson-5-5-2-sources-jar/org/bson/codecs/ValueCodecProvider.java
* /bson-5-5-2-sources-jar/org/bson/codecs/BsonObjectIdCodec.java
* /bson-5-5-2-sources-jar/org/bson/internal/LazyCodec.java
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* /bson-5-5-2-sources-jar/org/bson/types/BSONTimestamp.java
* /bson-5-5-2-sources-jar/org/bson/LazyBSONCallback.java
* /bson-5-5-2-sources-jar/org/bson/BsonInt32.java
* /bson-5-5-2-sources-jar/org/bson/internal/CodecCache.java
* /bson-5-5-2-sources-jar/org/bson/json/RelaxedExtendedJsonDateTimeConverter.java

* /bson-5-5-2-sources-jar/org/bson/json/RelaxedExtendedJsonDoubleConverter.java
* /bson-5-5-2-sources-jar/org/bson/json/JsonJavaScriptConverter.java
* /bson-5-5-2-sources-jar/org/bson/UuidRepresentation.java
* /bson-5-5-2-sources-jar/org/bson/json/JsonSymbolConverter.java
* /bson-5-5-2-sources-jar/org/bson/codecs/UuidCodec.java
* /bson-5-5-2-sources-jar/org/bson/types/CodeWScope.java
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 /bson-5-5-2-sources-jar/org/bson/types/Symbol.java
* /bson-5-5-2-sources-jar/org/bson/json/ExtendedJsonObjectIdConverter.java
* /bson-5-5-2-sources-jar/org/bson/BinaryVector.java
* /bson-5-5-2-sources-jar/org/bson/codecs/UuidCodecProvider.java
* /bson-5-5-2-sources-jar/org/bson/codecs/pojo/ClassModel.java
* /bson-5-5-2-sources-jar/org/bson/LazyBSONList.java
* /bson-5-5-2-sources-jar/org/bson/EmptyBSONCallback.java
* /bson-5-5-2-sources-jar/org/bson/codecs/BsonArrayCodec.java
* /bson-5-5-2-sources-jar/org/bson/types/Decimal128.java
* /bson-5-5-2-sources-jar/org/bson/codecs/AtomicIntegerCodec.java
* /bson-5-5-2-sources-jar/org/bson/codecs/pojo/annotations/BsonId.java
* /bson-5-5-2-sources-jar/org/bson/codecs/StringCodec.java
* /bson-5-5-2-sources-jar/org/bson/BsonBoolean.java
* /bson-5-5-2-sources-jar/org/bson/codecs/configuration/MapOfCodecsProvider.java
* /bson-5-5-2-sources-jar/org/bson/diagnostics/NoOpLogger.java
* /bson-5-5-2-sources-jar/org/bson/json/JsonStringBuffer.java
* /bson-5-5-2-sources-jar/org/bson/BsonReaderMark.java
*
 /bson-5-5-2-sources-jar/org/bson/types/StringRangeSet.java
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* /bson-5-5-2-sources-jar/org/bson/codecs/pojo/IdGenerators.java
* /bson-5-5-2-sources-jar/org/bson/codecs/pojo/IdPropertyModelHolder.java
* /bson-5-5-2-sources-jar/org/bson/codecs/pojo/ConventionObjectIdGeneratorsImpl.java

* /bson-5-5-2-sources-jar/org/bson/codecs/pojo/IdGenerator.java
* /bson-5-5-2-sources-jar/org/bson/codecs/BsonCodecProvider.java
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* /bson-5-5-2-sources-jar/org/bson/assertions/Assertions.java

1.262 openssl 3.0.2-0ubuntu1.21

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1.263 commons-lang 2.6

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* detect OSX first. Hence we will force include OSX detection
* before doing any BSD detection.
*/
#include <boost/predef/os/macos.h>

#include <boost/predef/version_number.h>
#include <boost/predef/make.h>

/* tag::reference[]
= `BOOST_OS_BSD`

http://en.wikipedia.org/wiki/Berkeley_Software_Distribution[BSD] operating system.

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version number macro to match:

* `BOOST_OS_BSD_DRAGONFLY` http://en.wikipedia.org/wiki/DragonFly_BSD[DragonFly BSD]
* `BOOST_OS_BSD_FREE` http://en.wikipedia.org/wiki/Freebsd[FreeBSD]
```

*
 `BOOST_OS_BSD_BSDI` http://en.wikipedia.org/wiki/BSD/OS[BSDi BSD/OS]
* `BOOST_OS_BSD_NET` http://en.wikipedia.org/wiki/Netbsd[NetBSD]
* `BOOST_OS_BSD_OPEN` http://en.wikipedia.org/wiki/Openbsd[OpenBSD]

NOTE: The general `BOOST_OS_BSD` is set in all cases to indicate some form
of BSD. If the above variants is detected the corresponding macro is also set.

[options="header"]
|===
| {predef_symbol} | {predef_version}

| `BSD` | {predef_detection}
| `+_SYSTYPE_BSD+` | {predef_detection}

| `BSD4_2` | 4.2.0
| `BSD4_3` | 4.3.0
| `BSD4_4` | 4.4.0
| `BSD` | V.R.0
|===
*/ // end::reference[]

```
#include <boost/predef/os/bsd/bsdi.h>
#include <boost/predef/os/bsd/dragonfly.h>
#include <boost/predef/os/bsd/free.h>
#include <boost/predef/os/bsd/open.h>
#include <boost/predef/os/bsd/net.h>

#ifndef BOOST_OS_BSD
#define BOOST_OS_BSD BOOST_VERSION_NUMBER_NOT_AVAILABLE
#endif

#if !defined(BOOST_PREDEF_DETAIL_OS_DETECTED) && ( \
  defined(BSD) || \
  defined(_SYSTYPE_BSD)
 \
  )
#   undef BOOST_OS_BSD
#   include <sys/param.h>
#   if !defined(BOOST_OS_BSD) && defined(BSD4_4)
#       define BOOST_OS_BSD BOOST_VERSION_NUMBER(4,4,0)
#   endif
#   if !defined(BOOST_OS_BSD) && defined(BSD4_3)
#       define BOOST_OS_BSD BOOST_VERSION_NUMBER(4,3,0)
#   endif
#   if !defined(BOOST_OS_BSD) && defined(BSD4_2)
#       define BOOST_OS_BSD BOOST_VERSION_NUMBER(4,2,0)
#   endif
```

```
#   if !defined(BOOST_OS_BSD) && defined(BSD)
#      define BOOST_OS_BSD BOOST_PREDEF_MAKE_10_VVRR(BSD)
#   endif
#   if !defined(BOOST_OS_BSD)
#      define BOOST_OS_BSD BOOST_VERSION_NUMBER_AVAILABLE
#   endif
#endif

#if BOOST_OS_BSD
#   define BOOST_OS_BSD_AVAILABLE
#   include <boost/predef/detail/os_detected.h>
#endif

#define BOOST_OS_BSD_NAME "BSD"

#endif

#include <boost/predef/os/bsd/bsdi.h>
#include <boost/predef/os/bsd/dragonfly.h>
#include <boost/predef/os/bsd/free.h>
#include <boost/predef/os/bsd/open.h>
#include <boost/predef/os/bsd/net.h>

#include <boost/predef/detail/test.h>
BOOST_PREDEF_DECLARE_TEST(BOOST_OS_BSD,BOOST_OS_BSD_NAME)
## -*-makefile-*-
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2013, International Business Machines Corporation and
## others. All Rights Reserved.

## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,
```

```
## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
```

BIR_LDFLAGS= -Wl,-Bsymbolic

Dependencies [i.e. map files] for the final library
BIR_DEPS=

Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

End BSD-specific setup
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VERSION 1, OCTOBER 16, 2018

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* Robert Collins
* Andrew Bennetts
* Benjamin Peterson
* Jamu Kakar
* James Westby
* Martin [gz]
* Michael Hudson-Doyle

* Aaron Bentley
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Author(s):

Hendrik Brueckner <brueckner@linux.vnet.ibm.com>
Anton Blanchard <anton@au.ibm.com>
Bryan Chan <bryan.chan@ca.ibm.com>
Chris Zou <chriszou@ca.ibm.com>

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Written by: Philip Hazel
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zlib.h -- interface of the 'zlib' general purpose compression library
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