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Apache HttpComponents Core

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Manifest-Version: 1.0

Automatic-Module-Name: com.datastax.oss.protocol

Bnd-LastModified: 1644957227947

Build-Jdk: 1.8.0_181

Built-By: mersault

Bundle-Description: A set of Java types representing the frames and messages of the Apache Cassandra® native protocol, with the associated serialization and deserialization logic (this is a third-party implementation, not related to the Apache Cassandra project)

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: An implementation of the Apache Cassandra® native protocol

Bundle-SymbolicName: com.datastax.oss.protocol

Bundle-Version: 1.5.1

Created-By: Apache Maven Bundle Plugin

Export-Package: com.datastax.oss.protocol.internal;version="1.5.1",com.datastax.oss.protocol.internal.request;uses:="com.datastax.oss.protocol.internal,com.datastax.oss.protocol.internal.request.query";version="1.5.1",com.datastax.oss.protocol.internal.request.query;uses:="com.datastax.oss.protocol.internal";version="1.5.1",com.datastax.oss.protocol.internal.response;uses:="com.datastax.oss.protocol.internal";version="1.5.1",com.datastax.oss.protocol.internal.response.error;uses:="com.datastax.oss.protocol.internal,com.datastax.oss.protocol.internal.response";version="1.5.1",com.datastax.oss.protocol.internal.response.event;uses:="com.datastax.oss.protocol.internal,com.datastax.oss.protocol.internal.response";version="1.5.1",com.datastax.oss.protocol.internal.response.result;uses:="com.datastax.oss.protocol.internal,com.datastax.oss.protocol.internal.response";version="1.5.1",com.datastax.oss.protocol.internal.util;uses:="com.datastax.oss.protocol.internal";version="1.5.1",com.datastax.oss.protocol.internal.util.collection;version="1.5.1",com.datastax.dse.protocol.internal;uses:="com.datastax.oss.protocol.internal";version="1.5.1",com.datastax.dse.protocol.internal.request;uses:="com.datastax.dse.protocol.internal.request.query,com.datastax.oss.protocol.internal,com.datastax.oss.protocol.internal.request";version="1.5.1",com.datastax.dse.protocol.internal.request.query;uses:="com.datastax.oss.protocol.internal,com.datastax.oss

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al.util.collection
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Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
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Tool: Bnd-3.5.0.201709291849
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Found in path(s):

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* /opt/cola/permits/1337324070_1654191441.387334/0/native-protocol-1-5-1-1-jar/META-INF/MANIFEST.MF
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CQL BINARY PROTOCOL v4

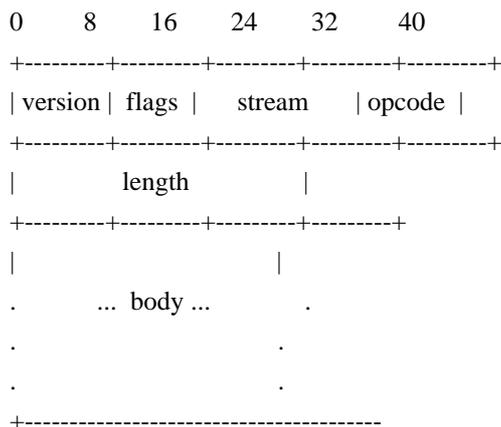
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1. Overview

The CQL binary protocol is a frame based protocol. Frames are defined as:



The protocol is big-endian (network byte order).

Each frame contains a fixed size header (9 bytes) followed by a variable size body. The header is described in Section 2. The content of the body depends on the header opcode value (the body can in particular be empty for some opcode values). The list of allowed opcodes is defined in Section 2.3 and the details of each corresponding message are described Section 4.

The protocol distinguishes two types of frames: requests and responses. Requests are those frames sent by the client to the server. Responses are those frames sent by the server to the client. Note, however, that the protocol supports server pushes (events) so a response does not necessarily come right after a client request.

Note to client implementors: client libraries should always assume that the body of a given frame may contain more data than what is described in this

document. It will however always be safe to ignore the remainder of the frame body in such cases. The reason is that this may enable extending the protocol with optional features without needing to change the protocol version.

2. Frame header

2.1. version

The version is a single byte that indicates both the direction of the message (request or response) and the version of the protocol in use. The most significant bit of version is used to define the direction of the message: 0 indicates a request, 1 indicates a response. This can be useful for protocol analyzers to distinguish the nature of the packet from the direction in which it is moving. The rest of that byte is the protocol version (4 for the protocol defined in this document). In other words, for this version of the protocol, version will be one of:

- 0x04 Request frame for this protocol version
- 0x84 Response frame for this protocol version

Please note that while every message ships with the version, only one version of messages is accepted on a given connection. In other words, the first message exchanged (STARTUP) sets the version for the connection for the lifetime of this connection.

This document describes version 4 of the protocol. For the changes made since version 3, see Section 10.

2.2. flags

Flags applying to this frame. The flags have the following meaning (described by the mask that allows selecting them):

- 0x01: Compression flag. If set, the frame body is compressed. The actual compression to use should have been set up beforehand through the Startup message (which thus cannot be compressed; Section 4.1.1).
- 0x02: Tracing flag. For a request frame, this indicates the client requires tracing of the request. Note that only QUERY, PREPARE and EXECUTE queries support tracing. Other requests will simply ignore the tracing flag if set. If a request supports tracing and the tracing flag is set, the response to this request will have the tracing flag set and contain tracing information.
If a response frame has the tracing flag set, its body contains a tracing ID. The tracing ID is a [uuid] and is the first thing in the frame body. The rest of the body will then be the usual body corresponding to the response opcode.
- 0x04: Custom payload flag. For a request or response frame, this indicates

that a generic key-value custom payload for a custom QueryHandler implementation is present in the frame. Such a custom payload is simply ignored by the default QueryHandler implementation.

Currently, only QUERY, PREPARE, EXECUTE and BATCH requests support payload.

Type of custom payload is [bytes map] (see below).

0x08: Warning flag. The response contains warnings which were generated by the server to go along with this response.

If a response frame has the warning flag set, its body will contain the text of the warnings. The warnings are a [string list] and will be the first value in the frame body if the tracing flag is not set, or directly after the tracing ID if it is.

The rest of flags is currently unused and ignored.

2.3. stream

A frame has a stream id (a [short] value). When sending request messages, this stream id must be set by the client to a non-negative value (negative stream id are reserved for streams initiated by the server; currently all EVENT messages (section 4.2.6) have a streamId of -1). If a client sends a request message with the stream id X, it is guaranteed that the stream id of the response to that message will be X.

This helps to enable the asynchronous nature of the protocol. If a client sends multiple messages simultaneously (without waiting for responses), there is no guarantee on the order of the responses. For instance, if the client writes REQ_1, REQ_2, REQ_3 on the wire (in that order), the server might respond to REQ_3 (or REQ_2) first. Assigning different stream ids to these 3 requests allows the client to distinguish to which request a received answer responds to. As there can only be 32768 different simultaneous streams, it is up to the client to reuse stream id.

Note that clients are free to use the protocol synchronously (i.e. wait for the response to REQ_N before sending REQ_{N+1}). In that case, the stream id can be safely set to 0. Clients should also feel free to use only a subset of the 32768 maximum possible stream ids if it is simpler for its implementation.

2.4. opcode

An integer byte that distinguishes the actual message:

- 0x00 ERROR
- 0x01 STARTUP
- 0x02 READY
- 0x03 AUTHENTICATE
- 0x05 OPTIONS
- 0x06 SUPPORTED
- 0x07 QUERY

0x08 RESULT
0x09 PREPARE
0x0A EXECUTE
0x0B REGISTER
0x0C EVENT
0x0D BATCH
0x0E AUTH_CHALLENGE
0x0F AUTH_RESPONSE
0x10 AUTH_SUCCESS

Messages are described in Section 4.

(Note that there is no 0x04 message in this version of the protocol)

2.5. length

A 4 byte integer representing the length of the body of the frame (note: currently a frame is limited to 256MB in length).

3. Notations

To describe the layout of the frame body for the messages in Section 4, we define the following:

[int] A 4 bytes integer
[long] A 8 bytes integer
[short] A 2 bytes unsigned integer
[string] A [short] n, followed by n bytes representing an UTF-8 string.
[long string] An [int] n, followed by n bytes representing an UTF-8 string.
[uuid] A 16 bytes long uuid.
[string list] A [short] n, followed by n [string].
[bytes] A [int] n, followed by n bytes if $n \geq 0$. If $n < 0$, no byte should follow and the value represented is `null`.
[value] A [int] n, followed by n bytes if $n \geq 0$.
If $n == -1$ no byte should follow and the value represented is `null`.
If $n == -2$ no byte should follow and the value represented is `not set` not resulting in any change to the existing value.
 $n < -2$ is an invalid value and results in an error.
[short bytes] A [short] n, followed by n bytes if $n \geq 0$.
[option] A pair of $\langle id \rangle \langle value \rangle$ where $\langle id \rangle$ is a [short] representing the option id and $\langle value \rangle$ depends on that option (and can be of size 0). The supported id (and the corresponding $\langle value \rangle$) will be described when this is used.
[option list] A [short] n, followed by n [option].

[inet] An address (ip and port) to a node. It consists of one [byte] n, that represents the address size, followed by n [byte] representing the IP address (in practice n can only be either 4 (IPv4) or 16 (IPv6)), following by one [int] representing the port.

[consistency] A consistency level specification. This is a [short] representing a consistency level with the following correspondance:

```
0x0000 ANY
0x0001 ONE
0x0002 TWO
0x0003 THREE
0x0004 QUORUM
0x0005 ALL
0x0006 LOCAL_QUORUM
0x0007 EACH_QUORUM
0x0008 SERIAL
0x0009 LOCAL_SERIAL
0x000A LOCAL_ONE
```

[string map] A [short] n, followed by n pair <k><v> where <k> and <v> are [string].

[string multimap] A [short] n, followed by n pair <k><v> where <k> is a [string] and <v> is a [string list].

[bytes map] A [short] n, followed by n pair <k><v> where <k> is a [string] and <v> is a [bytes].

4. Messages

4.1. Requests

Note that outside of their normal responses (described below), all requests can get an ERROR message (Section 4.2.1) as response.

4.1.1. STARTUP

Initialize the connection. The server will respond by either a READY message (in which case the connection is ready for queries) or an AUTHENTICATE message (in which case credentials will need to be provided using AUTH_RESPONSE).

This must be the first message of the connection, except for OPTIONS that can be sent before to find out the options supported by the server. Once the connection has been initialized, a client should not send any more STARTUP messages.

The body is a [string map] of options. Possible options are:

- "CQL_VERSION": the version of CQL to use. This option is mandatory and

currently the only version supported is "3.0.0". Note that this is different from the protocol version.

- "COMPRESSION": the compression algorithm to use for frames (See section 5). This is optional; if not specified no compression will be used.

4.1.2. AUTH_RESPONSE

Answers a server authentication challenge.

Authentication in the protocol is SASL based. The server sends authentication challenges (a bytes token) to which the client answers with this message. Those exchanges continue until the server accepts the authentication by sending a AUTH_SUCCESS message after a client AUTH_RESPONSE. Note that the exchange begins with the client sending an initial AUTH_RESPONSE in response to a server AUTHENTICATE request.

The body of this message is a single [bytes] token. The details of what this token contains (and when it can be null/empty, if ever) depends on the actual authenticator used.

The response to a AUTH_RESPONSE is either a follow-up AUTH_CHALLENGE message, an AUTH_SUCCESS message or an ERROR message.

4.1.3. OPTIONS

Asks the server to return which STARTUP options are supported. The body of an OPTIONS message should be empty and the server will respond with a SUPPORTED message.

4.1.4. QUERY

Performs a CQL query. The body of the message must be:

```
<query><query_parameters>  
where <query> is a [long string] representing the query and  
<query_parameters> must be  
<consistency><flags><n>[<name_1><value_1>...<name_n><value_n>][<result_page_size>][<paging_state>][<serial  
_consistency>][<timestamp>]
```

where:

- <consistency> is the [consistency] level for the operation.
- <flags> is a [byte] whose bits define the options for this query and in particular influence what the remainder of the message contains. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:

0x01: Values. If set, a [short] <n> followed by <n> [value] values are provided. Those values are used for bound variables in

the query. Optionally, if the 0x40 flag is present, each value will be preceded by a [string] name, representing the name of the marker the value must be bound to.

0x02: Skip_metadata. If set, the Result Set returned as a response to the query (if any) will have the NO_METADATA flag (see Section 4.2.5.2).

0x04: Page_size. If set, <result_page_size> is an [int] controlling the desired page size of the result (in CQL3 rows). See the section on paging (Section 8) for more details.

0x08: With_paging_state. If set, <paging_state> should be present. <paging_state> is a [bytes] value that should have been returned in a result set (Section 4.2.5.2). The query will be executed but starting from a given paging state. This is also to continue paging on a different node than the one where it started (See Section 8 for more details).

0x10: With_serial_consistency. If set, <serial_consistency> should be present. <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present, it defaults to SERIAL. This option will be ignored for anything else other than a conditional update/insert.

0x20: With_default_timestamp. If set, <timestamp> should be present. <timestamp> is a [long] representing the default timestamp for the query in microseconds (negative values are forbidden). This will replace the server side assigned timestamp as default timestamp. Note that a timestamp in the query itself will still override this timestamp. This is entirely optional.

0x40: With_names_for_values. This only makes sense if the 0x01 flag is set and is ignored otherwise. If present, the values from the 0x01 flag will be preceded by a name (see above). Note that this is only useful for QUERY requests where named bind markers are used; for EXECUTE statements, since the names for the expected values was returned during preparation, a client can always provide values in the right order without any names and using this flag, while supported, is almost surely inefficient.

Note that the consistency is ignored by some queries (USE, CREATE, ALTER, TRUNCATE, ...).

The server will respond to a QUERY message with a RESULT message, the content of which depends on the query.

4.1.5. PREPARE

Prepare a query for later execution (through EXECUTE). The body consists of the CQL query to prepare as a [long string].

The server will respond with a RESULT message with a `prepared` kind (0x0004,

see Section 4.2.5).

4.1.6. EXECUTE

Executes a prepared query. The body of the message must be:

<id><query_parameters>

where <id> is the prepared query ID. It's the [short bytes] returned as a response to a PREPARE message. As for <query_parameters>, it has the exact same definition as in QUERY (see Section 4.1.4).

The response from the server will be a RESULT message.

4.1.7. BATCH

Allows executing a list of queries (prepared or not) as a batch (note that only DML statements are accepted in a batch). The body of the message must be:

<type><n><query_1>...<query_n><consistency><flags>[<serial_consistency>][<timestamp>]

where:

- <type> is a [byte] indicating the type of batch to use:
 - If <type> == 0, the batch will be "logged". This is equivalent to a normal CQL3 batch statement.
 - If <type> == 1, the batch will be "unlogged".
 - If <type> == 2, the batch will be a "counter" batch (and non-counter statements will be rejected).
- <flags> is a [byte] whose bits define the options for this query and in particular influence what the remainder of the message contains. It is similar to the <flags> from QUERY and EXECUTE methods, except that the 4 rightmost bits must always be 0 as their corresponding options do not make sense for Batch. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:
 - 0x10: With serial consistency. If set, <serial_consistency> should be present. <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present, it defaults to SERIAL. This option will be ignored for anything else other than a conditional update/insert.
 - 0x20: With default timestamp. If set, <timestamp> should be present. <timestamp> is a [long] representing the default timestamp for the query in microseconds. This will replace the server side assigned timestamp as default timestamp. Note that a timestamp in the query itself will still override this timestamp. This is entirely optional.
 - 0x40: With names for values. If set, then all values for all <query_i> must be preceded by a [string] <name_i> that have the same meaning as in QUERY requests [IMPORTANT NOTE: this feature does not work and should not be used. It is specified in a way that makes it impossible for the server

to implement. This will be fixed in a future version of the native protocol. See <https://issues.apache.org/jira/browse/CASSANDRA-10246> for more details].

- <n> is a [short] indicating the number of following queries.
- <query_1>...<query_n> are the queries to execute. A <query_i> must be of the form:
 <kind><string_or_id><n>[<name_1><value_1>...[<name_n><value_n>
where:
 - <kind> is a [byte] indicating whether the following query is a prepared one or not. <kind> value must be either 0 or 1.
 - <string_or_id> depends on the value of <kind>. If <kind> == 0, it should be a [long string] query string (as in QUERY, the query string might contain bind markers). Otherwise (that is, if <kind> == 1), it should be a [short bytes] representing a prepared query ID.
 - <n> is a [short] indicating the number (possibly 0) of following values.
 - <name_i> is the optional name of the following <value_i>. It must be present if and only if the 0x40 flag is provided for the batch.
 - <value_i> is the [value] to use for bound variable i (of bound variable <name_i> if the 0x40 flag is used).
- <consistency> is the [consistency] level for the operation.
- <serial_consistency> is only present if the 0x10 flag is set. In that case, <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present will default to SERIAL. This option will be ignored for anything else other than a conditional update/insert.

The server will respond with a RESULT message.

4.1.8. REGISTER

Register this connection to receive some types of events. The body of the message is a [string list] representing the event types to register for. See section 4.2.6 for the list of valid event types.

The response to a REGISTER message will be a READY message.

Please note that if a client driver maintains multiple connections to a Cassandra node and/or connections to multiple nodes, it is advised to dedicate a handful of connections to receive events, but to *not* register for events on all connections, as this would only result in receiving multiple times the same event messages, wasting bandwidth.

4.2. Responses

This section describes the content of the frame body for the different responses. Please note that to make room for future evolution, clients should

support extra informations (that they should simply discard) to the one described in this document at the end of the frame body.

4.2.1. ERROR

Indicates an error processing a request. The body of the message will be an error code ([int]) followed by a [string] error message. Then, depending on the exception, more content may follow. The error codes are defined in Section 9, along with their additional content if any.

4.2.2. READY

Indicates that the server is ready to process queries. This message will be sent by the server either after a STARTUP message if no authentication is required (if authentication is required, the server indicates readiness by sending a AUTH_RESPONSE message).

The body of a READY message is empty.

4.2.3. AUTHENTICATE

Indicates that the server requires authentication, and which authentication mechanism to use.

The authentication is SASL based and thus consists of a number of server challenges (AUTH_CHALLENGE, Section 4.2.7) followed by client responses (AUTH_RESPONSE, Section 4.1.2). The initial exchange is however bootstrapped by an initial client response. The details of that exchange (including how many challenge-response pairs are required) are specific to the authenticator in use. The exchange ends when the server sends an AUTH_SUCCESS message or an ERROR message.

This message will be sent following a STARTUP message if authentication is required and must be answered by a AUTH_RESPONSE message from the client.

The body consists of a single [string] indicating the full class name of the IAuthenticator in use.

4.2.4. SUPPORTED

Indicates which startup options are supported by the server. This message comes as a response to an OPTIONS message.

The body of a SUPPORTED message is a [string multimap]. This multimap gives for each of the supported STARTUP options, the list of supported values.

4.2.5. RESULT

The result to a query (QUERY, PREPARE, EXECUTE or BATCH messages).

The first element of the body of a RESULT message is an [int] representing the `kind` of result. The rest of the body depends on the kind. The kind can be one of:

- 0x0001 Void: for results carrying no information.
- 0x0002 Rows: for results to select queries, returning a set of rows.
- 0x0003 Set_keyspace: the result to a `use` query.
- 0x0004 Prepared: result to a PREPARE message.
- 0x0005 Schema_change: the result to a schema altering query.

The body for each kind (after the [int] kind) is defined below.

4.2.5.1. Void

The rest of the body for a Void result is empty. It indicates that a query was successful without providing more information.

4.2.5.2. Rows

Indicates a set of rows. The rest of the body of a Rows result is:

<metadata><rows_count><rows_content>

where:

- <metadata> is composed of:

<flags><columns_count>[<paging_state>][<global_table_spec>?<col_spec_1>...<col_spec_n>]

where:

- <flags> is an [int]. The bits of <flags> provides information on the formatting of the remaining information. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:

- 0x0001 Global_tables_spec: if set, only one table spec (keyspace and table name) is provided as <global_table_spec>. If not set, <global_table_spec> is not present.
- 0x0002 Has_more_pages: indicates whether this is not the last page of results and more should be retrieved. If set, the <paging_state> will be present. The <paging_state> is a [bytes] value that should be used in QUERY/EXECUTE to continue paging and retrieve the remainder of the result for this query (See Section 8 for more details).
- 0x0004 No_metadata: if set, the <metadata> is only composed of these <flags>, the <column_count> and optionally the <paging_state> (depending on the Has_more_pages flag) but

no other information (so no <global_table_spec> nor <col_spec_i>).

This will only ever be the case if this was requested

during the query (see QUERY and RESULT messages).

- <columns_count> is an [int] representing the number of columns selected by the query that produced this result. It defines the number of <col_spec_i> elements in and the number of elements for each row in <rows_content>.
- <global_table_spec> is present if the Global_tables_spec is set in <flags>. It is composed of two [string] representing the (unique) keyspace name and table name the columns belong to.
- <col_spec_i> specifies the columns returned in the query. There are <column_count> such column specifications that are composed of:

(<ksname><tablename>)?<name><type>

The initial <ksname> and <tablename> are two [string] and are only present if the Global_tables_spec flag is not set. The <column_name> is a [string] and <type> is an [option] that corresponds to the description (what this description is depends a bit on the context: in results to selects, this will be either the user chosen alias or the selection used (often a column name, but it can be a function call too). In results to a PREPARE, this will be either the name of the corresponding bind variable or the column name for the variable if it is "anonymous") and type of the corresponding result. The option for <type> is either a native type (see below), in which case the option has no value, or a 'custom' type, in which case the value is a [string] representing the fully qualified class name of the type represented. Valid option ids are:

- 0x0000 Custom: the value is a [string], see above.
- 0x0001 Ascii
- 0x0002 Bigint
- 0x0003 Blob
- 0x0004 Boolean
- 0x0005 Counter
- 0x0006 Decimal
- 0x0007 Double
- 0x0008 Float
- 0x0009 Int
- 0x000B Timestamp
- 0x000C Uuid
- 0x000D Varchar
- 0x000E Varint
- 0x000F Timeuuid
- 0x0010 Inet
- 0x0011 Date
- 0x0012 Time
- 0x0013 Smallint
- 0x0014 Tinyint
- 0x0020 List: the value is an [option], representing the type of the elements of the list.
- 0x0021 Map: the value is two [option], representing the types of the

keys and values of the map

0x0022 Set: the value is an [option], representing the type of the elements of the set

0x0030 UDT: the value is <ks><udt_name><n><name_1><type_1>...<name_n><type_n> where:

- <ks> is a [string] representing the keyspace name this UDT is part of.
- <udt_name> is a [string] representing the UDT name.
- <n> is a [short] representing the number of fields of the UDT, and thus the number of <name_i><type_i> pairs following
- <name_i> is a [string] representing the name of the i_th field of the UDT.
- <type_i> is an [option] representing the type of the i_th field of the UDT.

0x0031 Tuple: the value is <n><type_1>...<type_n> where <n> is a [short] representing the number of values in the type, and <type_i> are [option] representing the type of the i_th component of the tuple

- <rows_count> is an [int] representing the number of rows present in this result. Those rows are serialized in the <rows_content> part.
- <rows_content> is composed of <row_1>...<row_m> where m is <rows_count>. Each <row_i> is composed of <value_1>...<value_n> where n is <columns_count> and where <value_j> is a [bytes] representing the value returned for the jth column of the ith row. In other words, <rows_content> is composed of (<rows_count> * <columns_count>) [bytes].

4.2.5.3. Set_keyspace

The result to a `use` query. The body (after the kind [int]) is a single [string] indicating the name of the keyspace that has been set.

4.2.5.4. Prepared

The result to a PREPARE message. The body of a Prepared result is:

<id><metadata><result_metadata>

where:

- <id> is [short bytes] representing the prepared query ID.
- <metadata> is composed of:

<flags><columns_count><pk_count>[<pk_index_1>...<pk_index_n>][<global_table_spec>?<col_spec_1>...<col_spec_n>]

where:

- <flags> is an [int]. The bits of <flags> provides information on the formatting of the remaining information. A flag is set if the bit corresponding to its `mask` is set. Supported masks and their flags

are:

0x0001 Global_tables_spec: if set, only one table spec (keyspace and table name) is provided as <global_table_spec>. If not set, <global_table_spec> is not present.

- <columns_count> is an [int] representing the number of bind markers in the prepared statement. It defines the number of <col_spec_i> elements.

- <pk_count> is an [int] representing the number of <pk_index_i> elements to follow. If this value is zero, at least one of the partition key columns in the table that the statement acts on did not have a corresponding bind marker (or the bind marker was wrapped in a function call).

- <pk_index_i> is a short that represents the index of the bind marker that corresponds to the partition key column in position i.

For example, a <pk_index> sequence of [2, 0, 1] indicates that the table has three partition key columns; the full partition key can be constructed by creating a composite of the values for the bind markers at index 2, at index 0, and at index 1.

This allows implementations with token-aware routing to correctly construct the partition key without needing to inspect table metadata.

- <global_table_spec> is present if the Global_tables_spec is set in <flags>. If present, it is composed of two [string]s. The first [string] is the name of the keyspace that the statement acts on. The second [string] is the name of the table that the columns represented by the bind markers belong to.

- <col_spec_i> specifies the bind markers in the prepared statement. There are <column_count> such column specifications, each with the following format:

(<kname><tablename>)?<name><type>

The initial <kname> and <tablename> are two [string] that are only present if the Global_tables_spec flag is not set. The <name> field is a [string] that holds the name of the bind marker (if named), or the name of the column, field, or expression that the bind marker corresponds to (if the bind marker is "anonymous"). The <type> field is an [option] that represents the expected type of values for the bind marker. See the Rows documentation (section 4.2.5.2) for full details on the <type> field.

- <result_metadata> is defined exactly the same as <metadata> in the Rows documentation (section 4.2.5.2). This describes the metadata for the result set that will be returned when this prepared statement is executed. Note that <result_metadata> may be empty (have the No_metadata flag and 0 columns, See section 4.2.5.2) and will be for any query that is not a Select. In fact, there is never a guarantee that this will be non-empty, so implementations should protect themselves accordingly. This result metadata is an optimization that allows implementations to later execute the prepared statement without requesting the metadata (see the Skip_metadata

flag in EXECUTE). Clients can safely discard this metadata if they do not want to take advantage of that optimization.

Note that the prepared query ID returned is global to the node on which the query has been prepared. It can be used on any connection to that node until the node is restarted (after which the query must be reprepared).

4.2.5.5. Schema_change

The result to a schema altering query (creation/update/drop of a keyspace/table/index). The body (after the kind [int]) is the same as the body for a "SCHEMA_CHANGE" event, so 3 strings:

<change_type><target><options>

Please refer to section 4.2.6 below for the meaning of those fields.

Note that a query to create or drop an index is considered to be a change to the table the index is on.

4.2.6. EVENT

An event pushed by the server. A client will only receive events for the types it has REGISTERed to. The body of an EVENT message will start with a [string] representing the event type. The rest of the message depends on the event type. The valid event types are:

- "TOPOLOGY_CHANGE": events related to change in the cluster topology. Currently, events are sent when new nodes are added to the cluster, and when nodes are removed. The body of the message (after the event type) consists of a [string] and an [inet], corresponding respectively to the type of change ("NEW_NODE" or "REMOVED_NODE") followed by the address of the new/removed node.
- "STATUS_CHANGE": events related to change of node status. Currently, up/down events are sent. The body of the message (after the event type) consists of a [string] and an [inet], corresponding respectively to the type of status change ("UP" or "DOWN") followed by the address of the concerned node.
- "SCHEMA_CHANGE": events related to schema change. After the event type, the rest of the message will be <change_type><target><options> where:
 - <change_type> is a [string] representing the type of changed involved. It will be one of "CREATED", "UPDATED" or "DROPPED".
 - <target> is a [string] that can be one of "KEYSPACE", "TABLE", "TYPE", "FUNCTION" or "AGGREGATE" and describes what has been modified ("TYPE" stands for modifications related to user types, "FUNCTION" for modifications related to user defined functions, "AGGREGATE" for modifications related to user defined aggregates).
 - <options> depends on the preceding <target>:
 - If <target> is "KEYSPACE", then <options> will be a single [string] representing the keyspace changed.

- If <target> is "TABLE" or "TYPE", then
 - <options> will be 2 [string]: the first one will be the keyspace containing the affected object, and the second one will be the name of said affected object (either the table, user type, function, or aggregate name).
- If <target> is "FUNCTION" or "AGGREGATE", multiple arguments follow:
 - [string] keyspace containing the user defined function / aggregate
 - [string] the function/aggregate name
 - [string list] one string for each argument type (as CQL type)

All EVENT messages have a streamId of -1 (Section 2.3).

Please note that "NEW_NODE" and "UP" events are sent based on internal Gossip communication and as such may be sent a short delay before the binary protocol server on the newly up node is fully started. Clients are thus advised to wait a short time before trying to connect to the node (1 second should be enough), otherwise they may experience a connection refusal at first.

4.2.7. AUTH_CHALLENGE

A server authentication challenge (see AUTH_RESPONSE (Section 4.1.2) for more details).

The body of this message is a single [bytes] token. The details of what this token contains (and when it can be null/empty, if ever) depends on the actual authenticator used.

Clients are expected to answer the server challenge with an AUTH_RESPONSE message.

4.2.8. AUTH_SUCCESS

Indicates the success of the authentication phase. See Section 4.2.3 for more details.

The body of this message is a single [bytes] token holding final information from the server that the client may require to finish the authentication process. What that token contains and whether it can be null depends on the actual authenticator used.

5. Compression

Frame compression is supported by the protocol, but then only the frame body is compressed (the frame header should never be compressed).

Before being used, client and server must agree on a compression algorithm to

use, which is done in the STARTUP message. As a consequence, a STARTUP message must never be compressed. However, once the STARTUP frame has been received by the server, messages can be compressed (including the response to the STARTUP request). Frames do not have to be compressed, however, even if compression has been agreed upon (a server may only compress frames above a certain size at its discretion). A frame body should be compressed if and only if the compressed flag (see Section 2.2) is set.

As of version 2 of the protocol, the following compressions are available:

- lz4 (<https://code.google.com/p/lz4/>). In that, note that the first four bytes of the body will be the uncompressed length (followed by the compressed bytes).
- snappy (<https://code.google.com/p/snappy/>). This compression might not be available as it depends on a native lib (server-side) that might not be available on some installations.

6. Data Type Serialization Formats

This sections describes the serialization formats for all CQL data types supported by Cassandra through the native protocol. These serialization formats should be used by client drivers to encode values for EXECUTE messages. Cassandra will use these formats when returning values in RESULT messages.

All values are represented as [bytes] in EXECUTE and RESULT messages. The [bytes] format includes an int prefix denoting the length of the value. For that reason, the serialization formats described here will not include a length component.

For legacy compatibility reasons, note that most non-string types support "empty" values (i.e. a value with zero length). An empty value is distinct from NULL, which is encoded with a negative length.

As with the rest of the native protocol, all encodings are big-endian.

6.1. ascii

A sequence of bytes in the ASCII range [0, 127]. Bytes with values outside of this range will result in a validation error.

6.2. bigint

An eight-byte two's complement integer.

6.3. blob

Any sequence of bytes.

6.4 boolean

A single byte. A value of 0 denotes "false"; any other value denotes "true". (However, it is recommended that a value of 1 be used to represent "true".)

6.5 date

An unsigned integer representing days with epoch centered at 2^{31} . (unix epoch January 1st, 1970).

A few examples:

0: -5877641-06-23

2^{31} : 1970-1-1

2^{32} : 5881580-07-11

6.6 decimal

The decimal format represents an arbitrary-precision number. It contains an [int] "scale" component followed by a varint encoding (see section 6.17) of the unscaled value. The encoded value represents " $\langle \text{unscaled} \rangle E \langle -\text{scale} \rangle$ ". In other words, " $\langle \text{unscaled} \rangle * 10^{(-1 * \langle \text{scale} \rangle)}$ ".

6.7 double

An 8 byte floating point number in the IEEE 754 binary64 format.

6.8 float

A 4 byte floating point number in the IEEE 754 binary32 format.

6.9 inet

A 4 byte or 16 byte sequence denoting an IPv4 or IPv6 address, respectively.

6.10 int

A 4 byte two's complement integer.

6.11 list

A [int] n indicating the number of elements in the list, followed by n elements. Each element is [bytes] representing the serialized value.

6.12 map

A [int] n indicating the number of key/value pairs in the map, followed by n entries. Each entry is composed of two [bytes] representing the key and value.

6.13 set

A [int] n indicating the number of elements in the set, followed by n elements. Each element is [bytes] representing the serialized value.

6.14 smallint

A 2 byte two's complement integer.

6.15 text

A sequence of bytes conforming to the UTF-8 specifications.

6.16 time

An 8 byte two's complement long representing nanoseconds since midnight. Valid values are in the range 0 to 8639999999999

6.17 timestamp

An 8 byte two's complement integer representing a millisecond-precision offset from the unix epoch (00:00:00, January 1st, 1970). Negative values represent a negative offset from the epoch.

6.18 timeuuid

A 16 byte sequence representing a version 1 UUID as defined by RFC 4122.

6.19 tinyint

A 1 byte two's complement integer.

6.20 tuple

A sequence of [bytes] values representing the items in a tuple. The encoding of each element depends on the data type for that position in the tuple.

Null values may be represented by using length -1 for the [bytes] representation of an element.

6.21 uuid

A 16 byte sequence representing any valid UUID as defined by RFC 4122.

6.22 varchar

An alias of the "text" type.

6.23 varint

A variable-length two's complement encoding of a signed integer.

The following examples may help implementors of this spec:

Value	Encoding
0	0x00
1	0x01
127	0x7F
128	0x0080
129	0x0081
-1	0xFF
-128	0x80
-129	0xFF7F

Note that positive numbers must use a most-significant byte with a value less than 0x80, because a most-significant bit of 1 indicates a negative value. Implementors should pad positive values that have a MSB \geq 0x80 with a leading 0x00 byte.

7. User Defined Types

This section describes the serialization format for User defined types (UDT), as described in section 4.2.5.2.

A UDT value is composed of successive [bytes] values, one for each field of the UDT value (in the order defined by the type). A UDT value will generally have one value for each field of the type it represents, but it is allowed to have less values than the type has fields.

8. Result paging

The protocol allows for paging the result of queries. For that, the QUERY and EXECUTE messages have a `<result_page_size>` value that indicate the desired page size in CQL3 rows.

If a positive value is provided for `<result_page_size>`, the result set of the RESULT message returned for the query will contain at most the `<result_page_size>` first rows of the query result. If that first page of results contains the full result set for the query, the RESULT message (of kind `Rows`) will have the `Has_more_pages` flag **not** set. However, if some results are not part of the first response, the `Has_more_pages` flag will be set and the result will contain a `<paging_state>` value. In that case, the `<paging_state>` value should be used in a QUERY or EXECUTE message (that has the **same** query as

the original one or the behavior is undefined) to retrieve the next page of results.

Only CQL3 queries that return a result set (RESULT message with a Rows `kind`) support paging. For other type of queries, the `<result_page_size>` value is ignored.

Note to client implementors:

- While `<result_page_size>` can be as low as 1, it will likely be detrimental to performance to pick a value too low. A value below 100 is probably too low for most use cases.
- Clients should not rely on the actual size of the result set returned to decide if there are more results to fetch or not. Instead, they should always check the `Has_more_pages` flag (unless they did not enable paging for the query obviously). Clients should also not assert that no result will have more than `<result_page_size>` results. While the current implementation always respects the exact value of `<result_page_size>`, we reserve the right to return slightly smaller or bigger pages in the future for performance reasons.
- The `<paging_state>` is specific to a protocol version and drivers should not send a `<paging_state>` returned by a node using the protocol v3 to query a node using the protocol v4 for instance.

9. Error codes

Let us recall that an ERROR message is composed of `<code><message>[...]` (see 4.2.1 for details). The supported error codes, as well as any additional information the message may contain after the `<message>` are described below:

0x0000 Server error: something unexpected happened. This indicates a server-side bug.

0x000A Protocol error: some client message triggered a protocol violation (for instance a QUERY message is sent before a STARTUP one has been sent)

0x0100 Authentication error: authentication was required and failed. The possible reason for failing depends on the authenticator in use, which may or may not include more detail in the accompanying error message.

0x1000 Unavailable exception. The rest of the ERROR message body will be `<cl><required><alive>`

where:

`<cl>` is the [consistency] level of the query that triggered the exception.

`<required>` is an [int] representing the number of nodes that should be alive to respect `<cl>`

`<alive>` is an [int] representing the number of replicas that were known to be alive when the request had been processed (since an unavailable exception has been triggered, there will be `<alive> < <required>`)

0x1001 Overloaded: the request cannot be processed because the coordinator node is overloaded

0x1002 Is_bootstrapping: the request was a read request but the coordinator node is bootstrapping

0x1003 Truncate_error: error during a truncation error.

0x1100 Write_timeout: Timeout exception during a write request. The rest of the ERROR message body will be

```
<cl><received><blockfor><writeType>
```

where:

<cl> is the [consistency] level of the query having triggered the exception.

<received> is an [int] representing the number of nodes having acknowledged the request.

<blockfor> is an [int] representing the number of replicas whose acknowledgement is required to achieve <cl>.

<writeType> is a [string] that describe the type of the write that timed out. The value of that string can be one of:

- "SIMPLE": the write was a non-batched non-counter write.
- "BATCH": the write was a (logged) batch write. If this type is received, it means the batch log has been successfully written (otherwise a "BATCH_LOG" type would have been sent instead).
- "UNLOGGED_BATCH": the write was an unlogged batch. No batch log write has been attempted.
- "COUNTER": the write was a counter write (batched or not).
- "BATCH_LOG": the timeout occurred during the write to the batch log when a (logged) batch write was requested.

0x1200 Read_timeout: Timeout exception during a read request. The rest of the ERROR message body will be

```
<cl><received><blockfor><data_present>
```

where:

<cl> is the [consistency] level of the query having triggered the exception.

<received> is an [int] representing the number of nodes having answered the request.

<blockfor> is an [int] representing the number of replicas whose response is required to achieve <cl>. Please note that it is possible to have <received> >= <blockfor> if <data_present> is false. Also in the (unlikely) case where <cl> is achieved but the coordinator node times out while waiting for read-repair acknowledgement.

<data_present> is a single byte. If its value is 0, it means the replica that was asked for data has not responded. Otherwise, the value is != 0.

0x1300 Read_failure: A non-timeout exception during a read request. The rest of the ERROR message body will be

<cl><received><blockfor><numfailures><data_present>

where:

<cl> is the [consistency] level of the query having triggered the exception.

<received> is an [int] representing the number of nodes having answered the request.

<blockfor> is an [int] representing the number of replicas whose acknowledgement is required to achieve <cl>.

<numfailures> is an [int] representing the number of nodes that experience a failure while executing the request.

<data_present> is a single byte. If its value is 0, it means the replica that was asked for data had not responded. Otherwise, the value is != 0.

0x1400 Function_failure: A (user defined) function failed during execution.

The rest of the ERROR message body will be

<keyspace><function><arg_types>

where:

<keyspace> is the keyspace [string] of the failed function

<function> is the name [string] of the failed function

<arg_types> [string list] one string for each argument type (as CQL type) of the failed function

0x1500 Write_failure: A non-timeout exception during a write request. The rest of the ERROR message body will be

<cl><received><blockfor><numfailures><write_type>

where:

<cl> is the [consistency] level of the query having triggered the exception.

<received> is an [int] representing the number of nodes having answered the request.

<blockfor> is an [int] representing the number of replicas whose acknowledgement is required to achieve <cl>.

<numfailures> is an [int] representing the number of nodes that experience a failure while executing the request.

<writeType> is a [string] that describes the type of the write that failed. The value of that string can be one of:

- "SIMPLE": the write was a non-batched non-counter write.
- "BATCH": the write was a (logged) batch write. If this type is received, it means the batch log has been successfully written (otherwise a "BATCH_LOG" type would have been sent instead).
- "UNLOGGED_BATCH": the write was an unlogged batch. No batch log write has been attempted.
- "COUNTER": the write was a counter write (batched or not).
- "BATCH_LOG": the failure occurred during the

write to the batch log when a (logged) batch
write was requested.

- 0x2000 Syntax_error: The submitted query has a syntax error.
- 0x2100 Unauthorized: The logged user doesn't have the right to perform the query.
- 0x2200 Invalid: The query is syntactically correct but invalid.
- 0x2300 Config_error: The query is invalid because of some configuration issue
- 0x2400 Already_exists: The query attempted to create a keyspace or a table that was already existing. The rest of the ERROR message body will be <ks><table> where:
 - <ks> is a [string] representing either the keyspace that already exists, or the keyspace in which the table that already exists is.
 - <table> is a [string] representing the name of the table that already exists. If the query was attempting to create a keyspace, <table> will be present but will be the empty string.
- 0x2500 Unprepared: Can be thrown while a prepared statement tries to be executed if the provided prepared statement ID is not known by this host. The rest of the ERROR message body will be [short bytes] representing the unknown ID.

10. Changes from v3

- * The format of "SCHEMA_CHANGE" events (Section 4.2.6) (and implicitly "Schema_change" results (Section 4.2.5.5)) has been modified, and now includes changes related to user defined functions and user defined aggregates.
- * Read_failure error code was added.
- * Function_failure error code was added.
- * Add custom payload to frames for custom QueryHandler implementations (ignored by Cassandra's standard QueryHandler)
- * Add warnings to frames for responses for which the server generated a warning during processing, which the client needs to address.
- * Add the date and time data types
- * Add the tinyint and smallint data types
- * The <paging_state> returned in the v4 protocol is not compatible with the v3 protocol. In other words, a <paging_state> returned by a node using protocol v4 should not be used to query a node using protocol v3 (and vice-versa).

Found in path(s):

* /opt/cola/permits/1337324070_1654191441.387334/0/native-protocol-1-5-1-1-jar/native_protocol_v4.spec

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

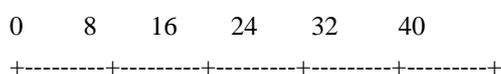
DSE BINARY PROTOCOL v1

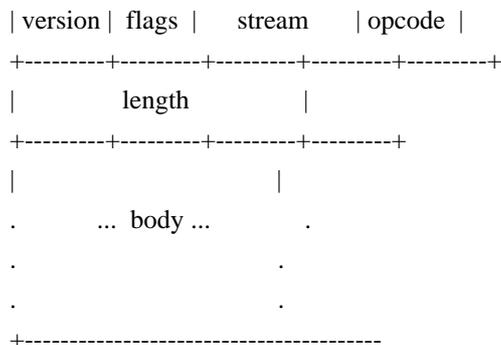
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1. Overview

The CQL binary protocol is a frame based protocol. Frames are defined as:





The protocol is big-endian (network byte order).

Each frame contains a fixed size header (9 bytes) followed by a variable size body. The header is described in Section 2. The content of the body depends on the header opcode value (the body can in particular be empty for some opcode values). The list of allowed opcodes is defined in Section 2.4 and the details of each corresponding message are described Section 4.

The protocol distinguishes two types of frames: requests and responses. Requests are those frames sent by the client to the server. Responses are those frames sent by the server to the client. Note, however, that the protocol supports server pushes (events) so a response does not necessarily come right after a client request.

Note to client implementors: client libraries should always assume that the body of a given frame may contain more data than what is described in this document. It will however always be safe to ignore the remainder of the frame body in such cases. The reason is that this may enable extending the protocol with optional features without needing to change the protocol version.

2. Frame header

2.1. version

The version is a single byte that indicates both the direction of the message (request or response) and the version of the protocol in use. The most significant bit of version is used to define the direction of the message: 0 indicates a request, 1 indicates a response. This can be useful for protocol analyzers to distinguish the nature of the packet from the direction in which it is moving.

The next most significant bit must be set to one to indicate that this is a dse private version and not a public open source version.

The rest of that byte is the dse protocol version (1 for the protocol defined in this document). In other words, for this version of the protocol, version will be one of:

0x41 (0100 0001) Request frame for this dse protocol version
0xC1 (1100 0001) Response frame for this dse protocol version

Please note that while every message ships with the version, only one version of messages is accepted on a given connection. In other words, the first message exchanged (STARTUP) sets the version for the connection for the lifetime of this connection. The single exception to this behavior is when a startup message is sent with a version that is higher than the current server version. In this case, the server will respond with its current version.

This document describes version 1 of the dse protocol. For the changes made since version 5 of the public protocol, see Section 10.

2.2. flags

Flags applying to this frame. The flags have the following meaning (described by the mask that allows selecting them):

- 0x01: Compression flag. If set, the frame body is compressed. The actual compression to use should have been set up beforehand through the Startup message (which thus cannot be compressed; Section 4.1.1).
- 0x02: Tracing flag. For a request frame, this indicates the client requires tracing of the request. Note that only QUERY, PREPARE and EXECUTE queries support tracing. Other requests will simply ignore the tracing flag if set. If a request supports tracing and the tracing flag is set, the response to this request will have the tracing flag set and contain tracing information.
If a response frame has the tracing flag set, its body contains a tracing ID. The tracing ID is a [uuid] and is the first thing in the frame body. The rest of the body will then be the usual body corresponding to the response opcode.
- 0x04: Custom payload flag. For a request or response frame, this indicates that a generic key-value custom payload for a custom QueryHandler implementation is present in the frame. Such a custom payload is simply ignored by the default QueryHandler implementation.
Currently, only QUERY, PREPARE, EXECUTE and BATCH requests support payload.
Type of custom payload is [bytes map] (see below).
- 0x08: Warning flag. The response contains warnings which were generated by the server to go along with this response.
If a response frame has the warning flag set, its body will contain the text of the warnings. The warnings are a [string list] and will be the first value in the frame body if the tracing flag is not set, or directly after the tracing ID if it is.
- 0x10: Use beta flag. Indicates that the client opts in to use protocol version that is currently in beta. Server will respond with ERROR if protocol version is marked as beta on server and client does not provide this flag.

The rest of flags is currently unused and ignored.

2.3. stream

A frame has a stream id (a [short] value). When sending request messages, this stream id must be set by the client to a non-negative value (negative stream id are reserved for streams initiated by the server; currently all EVENT messages (section 4.2.6) have a streamId of -1). If a client sends a request message with the stream id X, it is guaranteed that the stream id of the response to that message will be X.

This helps to enable the asynchronous nature of the protocol. If a client sends multiple messages simultaneously (without waiting for responses), there is no guarantee on the order of the responses. For instance, if the client writes REQ_1, REQ_2, REQ_3 on the wire (in that order), the server might respond to REQ_3 (or REQ_2) first. Assigning different stream ids to these 3 requests allows the client to distinguish to which request a received answer responds to. As there can only be 32768 different simultaneous streams, it is up to the client to reuse stream id.

Note that clients are free to use the protocol synchronously (i.e. wait for the response to REQ_N before sending REQ_{N+1}). In that case, the stream id can be safely set to 0. Clients should also feel free to use only a subset of the 32768 maximum possible stream ids if it is simpler for its implementation.

2.4. opcode

An integer byte that distinguishes the actual message:

0x00	ERROR
0x01	STARTUP
0x02	READY
0x03	AUTHENTICATE
0x05	OPTIONS
0x06	SUPPORTED
0x07	QUERY
0x08	RESULT
0x09	PREPARE
0x0A	EXECUTE
0x0B	REGISTER
0x0C	EVENT
0x0D	BATCH
0x0E	AUTH_CHALLENGE
0x0F	AUTH_RESPONSE
0x10	AUTH_SUCCESS
0xFF	CANCEL

Messages are described in Section 4.

(Note that there is no 0x04 message in this version of the protocol)

2.5. length

A 4 byte integer representing the length of the body of the frame (note: currently a frame is limited to 256MB in length).

3. Notations

To describe the layout of the frame body for the messages in Section 4, we define the following:

[int] A 4 bytes integer

[long] A 8 bytes integer

[byte] A 1 byte unsigned integer

[short] A 2 bytes unsigned integer

[string] A [short] n, followed by n bytes representing an UTF-8 string.

[long string] An [int] n, followed by n bytes representing an UTF-8 string.

[uuid] A 16 bytes long uuid.

[string list] A [short] n, followed by n [string].

[bytes] A [int] n, followed by n bytes if $n \geq 0$. If $n < 0$, no byte should follow and the value represented is ``null``.

[value] A [int] n, followed by n bytes if $n \geq 0$.
If $n == -1$ no byte should follow and the value represented is ``null``.
If $n == -2$ no byte should follow and the value represented is ``not set`` not resulting in any change to the existing value.
 $n < -2$ is an invalid value and results in an error.

[short bytes] A [short] n, followed by n bytes if $n \geq 0$.

[unsigned vint] An unsigned variable length integer. A vint is encoded with the most significant byte (MSB) first. The most significant byte will contains the information about how many extra bytes need to be read as well as the most significant bits of the integer. The number of extra bytes to read is encoded as 1 bits on the left side. For example, if we need to read 2 more bytes the first byte will start with 110 (e.g. 256 000 will be encoded on 3 bytes as [110]00011 11101000 00000000) If the encoded integer is 8 bytes long the vint will be encoded on 9 bytes and the first byte will be: 11111111

[vint] A signed variable length integer. This is encoded using zig-zag encoding and then sent like an [unsigned vint]. Zig-zag encoding converts numbers as follows:
 $0 = 0, -1 = 1, 1 = 2, -2 = 3, 2 = 4, -3 = 5, 3 = 6$ and so forth.
The purpose is to send small negative values as small unsigned values, so that we save bytes on the wire.

To encode a value n use $(n \gg 31) \wedge (n \ll 1)$ for 32 bit values, and $(n \gg 63) \wedge (n \ll 1)$ for 64 bit values where \wedge is the xor operation, \ll is the left shift operation and \gg is

the arithmetic right shift operation (highest-order bit is replicated).
Decode with "(n >> 1) ^ -(n & 1)".

[option] A pair of <id><value> where <id> is a [short] representing the option id and <value> depends on that option (and can be of size 0). The supported id (and the corresponding <value>) will be described when this is used.

[option list] A [short] n, followed by n [option].

[inet] An address (ip and port) to a node. It consists of one [byte] n, that represents the address size, followed by n [byte] representing the IP address (in practice n can only be either 4 (IPv4) or 16 (IPv6)), following by one [int] representing the port.

[inetaddr] An IP address (without a port) to a node. It consists of one [byte] n, that represents the address size, followed by n [byte] representing the IP address.

[consistency] A consistency level specification. This is a [short] representing a consistency level with the following correspondance:

0x0000	ANY
0x0001	ONE
0x0002	TWO
0x0003	THREE
0x0004	QUORUM
0x0005	ALL
0x0006	LOCAL_QUORUM
0x0007	EACH_QUORUM
0x0008	SERIAL
0x0009	LOCAL_SERIAL
0x000A	LOCAL_ONE

[string map] A [short] n, followed by n pair <k><v> where <k> and <v> are [string].

[string multimap] A [short] n, followed by n pair <k><v> where <k> is a [string] and <v> is a [string list].

[bytes map] A [short] n, followed by n pair <k><v> where <k> is a [string] and <v> is a [bytes].

4. Messages

4.1. Requests

Note that outside of their normal responses (described below), all requests can get an ERROR message (Section 4.2.1) as response.

4.1.1. STARTUP

Initialize the connection. The server will respond by either a READY message (in which case the connection is ready for queries) or an AUTHENTICATE message (in which case credentials will need to be provided using AUTH_RESPONSE).

This must be the first message of the connection, except for OPTIONS that can be sent before to find out the options supported by the server. Once the connection has been initialized, a client should not send any more STARTUP messages.

The body is a [string map] of options. Possible options are:

- "CQL_VERSION": the version of CQL to use. This option is mandatory and currently the only version supported is "3.0.0". Note that this is different from the protocol version.
- "COMPRESSION": the compression algorithm to use for frames (See section 5). This is optional; if not specified no compression will be used.

4.1.2. AUTH_RESPONSE

Answers a server authentication challenge.

Authentication in the protocol is SASL based. The server sends authentication challenges (a bytes token) to which the client answers with this message. Those exchanges continue until the server accepts the authentication by sending a AUTH_SUCCESS message after a client AUTH_RESPONSE. Note that the exchange begins with the client sending an initial AUTH_RESPONSE in response to a server AUTHENTICATE request.

The body of this message is a single [bytes] token. The details of what this token contains (and when it can be null/empty, if ever) depends on the actual authenticator used.

The response to a AUTH_RESPONSE is either a follow-up AUTH_CHALLENGE message, an AUTH_SUCCESS message or an ERROR message.

4.1.3. OPTIONS

Asks the server to return which STARTUP options are supported. The body of an OPTIONS message should be empty and the server will respond with a SUPPORTED message.

4.1.4. QUERY

Performs a CQL query. The body of the message must be:

<query><query_parameters>

where <query> is a [long string] representing the query and

<query_parameters> must be
<consistency><flags>[<n>[name_1]<value_1>...[name_n]<value_n>][<result_page_size>][<paging_state>]
[<serial_consistency>][<timestamp>][<continuous_paging_options>]

where:

- <consistency> is the [consistency] level for the operation.
- <flags> is a [int] whose bits define the options for this query and in particular influence what the remainder of the message contains. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:

0x00000001: Values. If set, a [short] <n> followed by <n> [value] values are provided. Those values are used for bound variables in the query. Optionally, if the 0x40 flag is present, each value will be preceded by a [string] name, representing the name of the marker the value must be bound to.

0x00000002: Skip_metadata. If set, the Result Set returned as a response to the query (if any) will have the NO_METADATA flag (see Section 4.2.5.2).

0x00000004: Page_size. If set, <result_page_size> is a positive [int] controlling the desired page size of the result in CQL3 rows or in bytes, if Page_size_bytes is set.

See the section on paging (Section 8) for more details.

0x00000008: With_paging_state. If set, <paging_state> should be present. <paging_state> is a [bytes] value that should have been returned in a result set (Section 4.2.5.2). The query will be executed but starting from a given paging state. An error will be returned if the paging_state is present but no page_size has been specified. The paging state can also be used to continue paging on a different node than the one where it started (See Section 8 for more details).

0x00000010: With_serial_consistency. If set, <serial_consistency> should be present. <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present, it defaults to SERIAL. This option will be ignored for anything else other than a conditional update/insert.

0x00000020: With_default_timestamp. If set, <timestamp> should be present. <timestamp> is a [long] representing the default timestamp for the query in microseconds (negative values are forbidden). This will replace the server side assigned timestamp as default timestamp. Note that a timestamp in the query itself will still override this timestamp. This is entirely optional.

0x00000040: With_names_for_values. This only makes sense if the 0x01 flag is set and is ignored otherwise. If present, the values from the 0x01 flag will be preceded by a name (see above). Note that this is only useful for QUERY requests where named bind markers are used; for EXECUTE statements, since the names for the expected values was returned during preparation, a client can always provide values in the right order without any names and using this flag, while supported, is almost surely inefficient.

0x40000000: `Page_size_bytes`. If set, `<result_page_size>` is expressed in bytes. The server will try to return a number of CQL rows whose total size is as close as possible to the requested page size, without splitting any CQL row however. This functionality is currently only supported with continuous paging, setting this flag without setting the continuous paging flag, will result in an error.

0x80000000: With continuous paging. If set, `<continuous_paging_options>` should be present.

This structure contains the following:

- `<max_num_pages>`, an [int] indicating the maximum number of pages that the server will send to the client in total, set this to zero to indicate no limit.
- `<pages_per_second>`, an [int] indicating the maximum number of pages per second, set this to zero to indicate no limit.

When continuous paging is enabled, the query results will be pushed to the client asynchronously and according to the paging options in the request message, without the client having to request each single page. Each response message will have the same stream id as the initial request.

Continuous paging can be interrupted by the client at any time via a CANCEL request, see section 4.1.9.

Note that the consistency is ignored by some queries (USE, CREATE, ALTER, TRUNCATE, ...).

The server will respond to a QUERY message with a RESULT message, the content of which depends on the query.

4.1.5. PREPARE

Prepare a query for later execution (through EXECUTE). The body consists of the CQL query to prepare as a [long string].

The server will respond with a RESULT message with a ``prepared`` kind (0x0004, see Section 4.2.5).

4.1.6. EXECUTE

Executes a prepared query. The body of the message must be:

`<id><query_parameters>`

where `<id>` is the prepared query ID. It's the [short bytes] returned as a response to a PREPARE message. As for `<query_parameters>`, it has the exact same definition as in QUERY (see Section 4.1.4).

The response from the server will be a RESULT message.

4.1.7. BATCH

Allows executing a list of queries (prepared or not) as a batch (note that only DML statements are accepted in a batch). The body of the message must be:

<type><n><query_1>...<query_n><consistency><flags>[<serial_consistency>][<timestamp>]

where:

- <type> is a [byte] indicating the type of batch to use:
 - If <type> == 0, the batch will be "logged". This is equivalent to a normal CQL3 batch statement.
 - If <type> == 1, the batch will be "unlogged".
 - If <type> == 2, the batch will be a "counter" batch (and non-counter statements will be rejected).
- <flags> is a [int] whose bits define the options for this query and in particular influence what the remainder of the message contains. It is similar to the <flags> from QUERY and EXECUTE methods, except that the 4 rightmost bits must always be 0 as their corresponding options do not make sense for Batch. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:
 - 0x10: With serial consistency. If set, <serial_consistency> should be present. <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present, it defaults to SERIAL. This option will be ignored for anything else other than a conditional update/insert.
 - 0x20: With default timestamp. If set, <timestamp> should be present. <timestamp> is a [long] representing the default timestamp for the query in microseconds. This will replace the server side assigned timestamp as default timestamp. Note that a timestamp in the query itself will still override this timestamp. This is entirely optional.
 - 0x40: With names for values. If set, then all values for all <query_i> must be preceded by a [string] <name_i> that have the same meaning as in QUERY requests [IMPORTANT NOTE: this feature does not work and should not be used. It is specified in a way that makes it impossible for the server to implement. This will be fixed in a future version of the native protocol. See <https://issues.apache.org/jira/browse/CASSANDRA-10246> for more details].

- <n> is a [short] indicating the number of following queries.
- <query_1>...<query_n> are the queries to execute. A <query_i> must be of the form:

<kind><string_or_id><n>[<name_1><value_1>...<name_n><value_n>

where:

- <kind> is a [byte] indicating whether the following query is a prepared one or not. <kind> value must be either 0 or 1.
- <string_or_id> depends on the value of <kind>. If <kind> == 0, it should be a [long string] query string (as in QUERY, the query string might contain bind markers). Otherwise (that is, if <kind> == 1), it should be a [short bytes] representing a prepared query ID.
- <n> is a [short] indicating the number (possibly 0) of following values.
- <name_i> is the optional name of the following <value_i>. It must be present if and only if the 0x40 flag is provided for the batch.
- <value_i> is the [value] to use for bound variable i (of bound variable <name_i> if the 0x40 flag is used).

- <consistency> is the [consistency] level for the operation.
- <serial_consistency> is only present if the 0x10 flag is set. In that case, <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present will default to SERIAL. This option will be ignored for anything else other than a conditional update/insert.

The server will respond with a RESULT message.

4.1.8. REGISTER

Register this connection to receive some types of events. The body of the message is a [string list] representing the event types to register for. See section 4.2.6 for the list of valid event types.

The response to a REGISTER message will be a READY message.

Please note that if a client driver maintains multiple connections to a Cassandra node and/or connections to multiple nodes, it is advised to dedicate a handful of connections to receive events, but to **not** register for events on all connections, as this would only result in receiving multiple times the same event messages, wasting bandwidth.

4.1.9. CANCEL

Request to cancel an asynchronous operation. The body of the message is:

- an [int] identifying the operation type:
 - 0x00000001 for "continuous paging", see section 4.1.4
- an [int] equal to the stream id of the initial request message.

The server will reply with a RESULT of type ROWS (section 4.2.5.2), containing a single row with a single boolean value, which is set to:

- true if the operation was cancelled,
- false if the operation was not found.

If an operation is found but cannot be cancelled, an error is returned instead.

4.2. Responses

This section describes the content of the frame body for the different responses. Please note that to make room for future evolution, clients should support extra informations (that they should simply discard) to the one described in this document at the end of the frame body.

4.2.1. ERROR

Indicates an error processing a request. The body of the message will be an

error code ([int]) followed by a [string] error message. Then, depending on the exception, more content may follow. The error codes are defined in Section 9, along with their additional content if any.

4.2.2. READY

Indicates that the server is ready to process queries. This message will be sent by the server either after a STARTUP message if no authentication is required (if authentication is required, the server indicates readiness by sending a AUTH_RESPONSE message).

The body of a READY message is empty.

4.2.3. AUTHENTICATE

Indicates that the server requires authentication, and which authentication mechanism to use.

The authentication is SASL based and thus consists of a number of server challenges (AUTH_CHALLENGE, Section 4.2.7) followed by client responses (AUTH_RESPONSE, Section 4.1.2). The initial exchange is however bootstrapped by an initial client response. The details of that exchange (including how many challenge-response pairs are required) are specific to the authenticator in use. The exchange ends when the server sends an AUTH_SUCCESS message or an ERROR message.

This message will be sent following a STARTUP message if authentication is required and must be answered by a AUTH_RESPONSE message from the client.

The body consists of a single [string] indicating the full class name of the IAuthenticator in use.

4.2.4. SUPPORTED

Indicates which startup options are supported by the server. This message comes as a response to an OPTIONS message.

The body of a SUPPORTED message is a [string multimap]. This multimap gives for each of the supported STARTUP options, the list of supported values. It also includes:

- "PROTOCOL_VERSIONS": the list of native protocol versions that are supported, encoded as the version number followed by a slash and the version description. For example: 3/v3, 4/v4, 5/v5-beta. If a version is in beta, it will have the word "beta" in its description.

4.2.5. RESULT

The result to a query (QUERY, PREPARE, EXECUTE or BATCH messages).

The first element of the body of a RESULT message is an [int] representing the `kind` of result. The rest of the body depends on the kind. The kind can be one of:

- 0x0001 Void: for results carrying no information.
- 0x0002 Rows: for results to select queries, returning a set of rows.
- 0x0003 Set_keyspace: the result to a `use` query.
- 0x0004 Prepared: result to a PREPARE message.
- 0x0005 Schema_change: the result to a schema altering query.

The body for each kind (after the [int] kind) is defined below.

4.2.5.1. Void

The rest of the body for a Void result is empty. It indicates that a query was successful without providing more information.

4.2.5.2. Rows

Indicates a set of rows. The rest of the body of a Rows result is:

<metadata><rows_count><rows_content>

where:

- <metadata> is composed of:

<flags><columns_count>[<paging_state>][<continuous_page_no>][<global_table_spec>?<col_spec_1>...<col_spec_n>]

where:

- <flags> is an [int]. The bits of <flags> provides information on the formatting of the remaining information. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:

0x00000001 Global_tables_spec: if set, only one table spec (keyspace and table name) is provided as <global_table_spec>. If not set, <global_table_spec> is not present.

0x00000002 Has_more_pages: indicates whether this is not the last page of results and more should be retrieved. If set, the <paging_state> will be present. The <paging_state> is a [bytes] value that should be used in QUERY/EXECUTE to continue paging and retrieve the remainder of the result for this query (See Section 8 for more details).

0x00000004 No_metadata: if set, the <metadata> is only composed of these <flags>, the <column_count> and optionally the <paging_state> and <continuous_page_no> (depending on the

corresponding flags) but no other information (so no <global_table_spec> nor <col_spec_i>).

This will only ever be the case if this was requested during the query (see QUERY and RESULT messages).

0x40000000 continuous paging: if set, this page is part of a continuous paging session, as requested by the client. <continuous_page_no> will be present, this is an [int] that identifies the sequential number of this page in the session, and the last_continuous_page flag below will be set for the final page.

0x80000000 Last_continuous_page: indicates that this is the last continuous page that will be sent in the continuous paging session. This flag can only be set when the continuous paging flag is also set. Note that this may not necessarily be the last page of the query results, for this it is necessary to look at Has_more_pages (this could happen if the client only requested the first N pages in the continuous paging session, or if it sent a CANCEL message).

- <columns_count> is an [int] representing the number of columns selected by the query that produced this result. It defines the number of <col_spec_i> elements in and the number of elements for each row in <rows_content>.
- <global_table_spec> is present if the Global_tables_spec is set in <flags>. It is composed of two [string] representing the (unique) keyspace name and table name the columns belong to.
- <col_spec_i> specifies the columns returned in the query. There are <column_count> such column specifications that are composed of:
(<ksname><tablename>)?<name><type>

The initial <ksname> and <tablename> are two [string] and are only present if the Global_tables_spec flag is not set. The <column_name> is a [string] and <type> is an [option] that corresponds to the description (what this description is depends a bit on the context: in results to selects, this will be either the user chosen alias or the selection used (often a column name, but it can be a function call too). In results to a PREPARE, this will be either the name of the corresponding bind variable or the column name for the variable if it is "anonymous") and type of the corresponding result. The option for <type> is either a native type (see below), in which case the option has no value, or a 'custom' type, in which case the value is a [string] representing the fully qualified class name of the type represented. Valid option ids are:

- 0x0000 Custom: the value is a [string], see above.
- 0x0001 Ascii
- 0x0002 Bigint
- 0x0003 Blob
- 0x0004 Boolean
- 0x0005 Counter
- 0x0006 Decimal
- 0x0007 Double
- 0x0008 Float
- 0x0009 Int

- 0x000B Timestamp
- 0x000C Uuid
- 0x000D Varchar
- 0x000E Varint
- 0x000F Timeuuid
- 0x0010 Inet
- 0x0011 Date
- 0x0012 Time
- 0x0013 Smallint
- 0x0014 Tinyint
- 0x0015 Duration
- 0x0020 List: the value is an [option], representing the type of the elements of the list.
- 0x0021 Map: the value is two [option], representing the types of the keys and values of the map
- 0x0022 Set: the value is an [option], representing the type of the elements of the set
- 0x0030 UDT: the value is <ks><udt_name><n><name_1><type_1>...<name_n><type_n> where:
 - <ks> is a [string] representing the keyspace name this UDT is part of.
 - <udt_name> is a [string] representing the UDT name.
 - <n> is a [short] representing the number of fields of the UDT, and thus the number of <name_i><type_i> pairs following
 - <name_i> is a [string] representing the name of the i_th field of the UDT.
 - <type_i> is an [option] representing the type of the i_th field of the UDT.
- 0x0031 Tuple: the value is <n><type_1>...<type_n> where <n> is a [short] representing the number of values in the type, and <type_i> are [option] representing the type of the i_th component of the tuple

- <rows_count> is an [int] representing the number of rows present in this result. Those rows are serialized in the <rows_content> part.
- <rows_content> is composed of <row_1>...<row_m> where m is <rows_count>. Each <row_i> is composed of <value_1>...<value_n> where n is <columns_count> and where <value_j> is a [bytes] representing the value returned for the jth column of the ith row. In other words, <rows_content> is composed of (<rows_count> * <columns_count>) [bytes].

4.2.5.3. Set_keyspace

The result to a `use` query. The body (after the kind [int]) is a single [string] indicating the name of the keyspace that has been set.

4.2.5.4. Prepared

The result to a PREPARE message. The body of a Prepared result is:

<id><metadata><result_metadata>

where:

- <id> is [short bytes] representing the prepared query ID.
- <metadata> is composed of:

<flags><columns_count><pk_count>[<pk_index_1>...<pk_index_n>][<global_table_spec>?<col_spec_1>...<col_spec_n>]

where:

- <flags> is an [int]. The bits of <flags> provides information on the formatting of the remaining information. A flag is set if the bit corresponding to its `mask` is set. Supported masks and their flags are:

0x0001 Global_tables_spec: if set, only one table spec (keyspace and table name) is provided as <global_table_spec>. If not set, <global_table_spec> is not present.

- <columns_count> is an [int] representing the number of bind markers in the prepared statement. It defines the number of <col_spec_i> elements.

- <pk_count> is an [int] representing the number of <pk_index_i> elements to follow. If this value is zero, at least one of the partition key columns in the table that the statement acts on did not have a corresponding bind marker (or the bind marker was wrapped in a function call).

- <pk_index_i> is a short that represents the index of the bind marker that corresponds to the partition key column in position i.

For example, a <pk_index> sequence of [2, 0, 1] indicates that the table has three partition key columns; the full partition key can be constructed by creating a composite of the values for the bind markers at index 2, at index 0, and at index 1.

This allows implementations with token-aware routing to correctly construct the partition key without needing to inspect table metadata.

- <global_table_spec> is present if the Global_tables_spec is set in <flags>. If present, it is composed of two [string]s. The first [string] is the name of the keyspace that the statement acts on. The second [string] is the name of the table that the columns represented by the bind markers belong to.

- <col_spec_i> specifies the bind markers in the prepared statement. There are <columns_count> such column specifications, each with the following format:

(<kname><tablename>)?<name><type>

The initial <kname> and <tablename> are two [string] that are only present if the Global_tables_spec flag is not set. The <name> field is a [string] that holds the name of the bind marker (if named), or the name of the column, field, or expression that the bind marker

corresponds to (if the bind marker is "anonymous"). The <type> field is an [option] that represents the expected type of values for the bind marker. See the Rows documentation (section 4.2.5.2) for full details on the <type> field.

- <result_metadata> is defined exactly the same as <metadata> in the Rows documentation (section 4.2.5.2). This describes the metadata for the result set that will be returned when this prepared statement is executed. Note that <result_metadata> may be empty (have the No_metadata flag and 0 columns, See section 4.2.5.2) and will be for any query that is not a Select. In fact, there is never a guarantee that this will be non-empty, so implementations should protect themselves accordingly. This result metadata is an optimization that allows implementations to later execute the prepared statement without requesting the metadata (see the Skip_metadata flag in EXECUTE). Clients can safely discard this metadata if they do not want to take advantage of that optimization.

Note that the prepared query ID returned is global to the node on which the query has been prepared. It can be used on any connection to that node until the node is restarted (after which the query must be reprepared).

4.2.5.5. Schema_change

The result to a schema altering query (creation/update/drop of a keyspace/table/index). The body (after the kind [int]) is the same as the body for a "SCHEMA_CHANGE" event, so 3 strings:

<change_type><target><options>

Please refer to section 4.2.6 below for the meaning of those fields.

Note that a query to create or drop an index is considered to be a change to the table the index is on.

4.2.6. EVENT

An event pushed by the server. A client will only receive events for the types it has REGISTERed to. The body of an EVENT message will start with a [string] representing the event type. The rest of the message depends on the event type. The valid event types are:

- "TOPOLOGY_CHANGE": events related to change in the cluster topology. Currently, events are sent when new nodes are added to the cluster, and when nodes are removed. The body of the message (after the event type) consists of a [string] and an [inet], corresponding respectively to the type of change ("NEW_NODE" or "REMOVED_NODE") followed by the address of the new/removed node.
- "STATUS_CHANGE": events related to change of node status. Currently, up/down events are sent. The body of the message (after the event type) consists of a [string] and an [inet], corresponding respectively to the

type of status change ("UP" or "DOWN") followed by the address of the concerned node.

- "SCHEMA_CHANGE": events related to schema change. After the event type, the rest of the message will be <change_type><target><options> where:
 - <change_type> is a [string] representing the type of changed involved. It will be one of "CREATED", "UPDATED" or "DROPPED".
 - <target> is a [string] that can be one of "KEYSPACE", "TABLE", "TYPE", "FUNCTION" or "AGGREGATE" and describes what has been modified ("TYPE" stands for modifications related to user types, "FUNCTION" for modifications related to user defined functions, "AGGREGATE" for modifications related to user defined aggregates).
 - <options> depends on the preceding <target>:
 - If <target> is "KEYSPACE", then <options> will be a single [string] representing the keyspace changed.
 - If <target> is "TABLE" or "TYPE", then <options> will be 2 [string]: the first one will be the keyspace containing the affected object, and the second one will be the name of said affected object (either the table, user type, function, or aggregate name).
 - If <target> is "FUNCTION" or "AGGREGATE", multiple arguments follow:
 - [string] keyspace containing the user defined function / aggregate
 - [string] the function/aggregate name
 - [string list] one string for each argument type (as CQL type)

All EVENT messages have a streamId of -1 (Section 2.3).

Please note that "NEW_NODE" and "UP" events are sent based on internal Gossip communication and as such may be sent a short delay before the binary protocol server on the newly up node is fully started. Clients are thus advised to wait a short time before trying to connect to the node (1 second should be enough), otherwise they may experience a connection refusal at first.

4.2.7. AUTH_CHALLENGE

A server authentication challenge (see AUTH_RESPONSE (Section 4.1.2) for more details).

The body of this message is a single [bytes] token. The details of what this token contains (and when it can be null/empty, if ever) depends on the actual authenticator used.

Clients are expected to answer the server challenge with an AUTH_RESPONSE message.

4.2.8. AUTH_SUCCESS

Indicates the success of the authentication phase. See Section 4.2.3 for more

details.

The body of this message is a single [bytes] token holding final information from the server that the client may require to finish the authentication process. What that token contains and whether it can be null depends on the actual authenticator used.

5. Compression

Frame compression is supported by the protocol, but then only the frame body is compressed (the frame header should never be compressed).

Before being used, client and server must agree on a compression algorithm to use, which is done in the STARTUP message. As a consequence, a STARTUP message must never be compressed. However, once the STARTUP frame has been received by the server, messages can be compressed (including the response to the STARTUP request). Frames do not have to be compressed, however, even if compression has been agreed upon (a server may only compress frames above a certain size at its discretion). A frame body should be compressed if and only if the compressed flag (see Section 2.2) is set.

As of version 2 of the protocol, the following compressions are available:

- lz4 (<https://code.google.com/p/lz4/>). In that, note that the first four bytes of the body will be the uncompressed length (followed by the compressed bytes).
- snappy (<https://code.google.com/p/snappy/>). This compression might not be available as it depends on a native lib (server-side) that might not be available on some installations.

6. Data Type Serialization Formats

This sections describes the serialization formats for all CQL data types supported by Cassandra through the native protocol. These serialization formats should be used by client drivers to encode values for EXECUTE messages. Cassandra will use these formats when returning values in RESULT messages.

All values are represented as [bytes] in EXECUTE and RESULT messages. The [bytes] format includes an int prefix denoting the length of the value. For that reason, the serialization formats described here will not include a length component.

For legacy compatibility reasons, note that most non-string types support "empty" values (i.e. a value with zero length). An empty value is distinct from NULL, which is encoded with a negative length.

As with the rest of the native protocol, all encodings are big-endian.

6.1. ascii

A sequence of bytes in the ASCII range [0, 127]. Bytes with values outside of this range will result in a validation error.

6.2 bigint

An eight-byte two's complement integer.

6.3 blob

Any sequence of bytes.

6.4 boolean

A single byte. A value of 0 denotes "false"; any other value denotes "true". (However, it is recommended that a value of 1 be used to represent "true".)

6.5 date

An unsigned integer representing days with epoch centered at 2^{31} . (unix epoch January 1st, 1970).

A few examples:

0: -5877641-06-23

2^{31} : 1970-1-1

2^{32} : 5881580-07-11

6.6 decimal

The decimal format represents an arbitrary-precision number. It contains an [int] "scale" component followed by a varint encoding (see section 6.17) of the unscaled value. The encoded value represents " $\langle \text{unscaled} \rangle E \langle -\text{scale} \rangle$ ". In other words, " $\langle \text{unscaled} \rangle * 10^{(-1 * \langle \text{scale} \rangle)}$ ".

6.7 double

An 8 byte floating point number in the IEEE 754 binary64 format.

6.8 duration

A duration is composed of 3 signed variable length integers ([vint]s).

The first [vint] represents a number of months, the second [vint] represents a number of days, and the last [vint] represents a number of nanoseconds.

The number of months and days must be valid 32 bits integers whereas the number of nanoseconds must be a valid 64 bits integer.

A duration can either be positive or negative. If a duration is positive all the integers must be positive or zero. If a duration is

negative all the numbers must be negative or zero.

6.9 float

A 4 byte floating point number in the IEEE 754 binary32 format.

6.10 inet

A 4 byte or 16 byte sequence denoting an IPv4 or IPv6 address, respectively.

6.11 int

A 4 byte two's complement integer.

6.12 list

A [int] n indicating the number of elements in the list, followed by n elements. Each element is [bytes] representing the serialized value.

6.13 map

A [int] n indicating the number of key/value pairs in the map, followed by n entries. Each entry is composed of two [bytes] representing the key and value.

6.14 set

A [int] n indicating the number of elements in the set, followed by n elements. Each element is [bytes] representing the serialized value.

6.15 smallint

A 2 byte two's complement integer.

6.16 text

A sequence of bytes conforming to the UTF-8 specifications.

6.17 time

An 8 byte two's complement long representing nanoseconds since midnight. Valid values are in the range 0 to 8639999999999

6.18 timestamp

An 8 byte two's complement integer representing a millisecond-precision offset from the unix epoch (00:00:00, January 1st, 1970). Negative values represent a negative offset from the epoch.

6.19 timeuuid

A 16 byte sequence representing a version 1 UUID as defined by RFC 4122.

6.20 tinyint

A 1 byte two's complement integer.

6.21 tuple

A sequence of [bytes] values representing the items in a tuple. The encoding of each element depends on the data type for that position in the tuple.

Null values may be represented by using length -1 for the [bytes] representation of an element.

6.22 uuid

A 16 byte sequence representing any valid UUID as defined by RFC 4122.

6.23 varchar

An alias of the "text" type.

6.24 varint

A variable-length two's complement encoding of a signed integer.

The following examples may help implementors of this spec:

Value	Encoding
0	0x00
1	0x01
127	0x7F
128	0x0080
129	0x0081
-1	0xFF
-128	0x80
-129	0xFF7F

Note that positive numbers must use a most-significant byte with a value less than 0x80, because a most-significant bit of 1 indicates a negative value. Implementors should pad positive values that have a MSB \geq 0x80 with a leading 0x00 byte.

7. User Defined Types

This section describes the serialization format for User defined types (UDT), as described in section 4.2.5.2.

A UDT value is composed of successive [bytes] values, one for each field of the UDT value (in the order defined by the type). A UDT value will generally have one value for each field of the type it represents, but it is allowed to have less values than the type has fields.

8. Result paging

The protocol allows for paging the result of queries. For that, the QUERY and EXECUTE messages have a <result_page_size> value that indicate the desired page size in CQL3 rows.

If a positive value is provided for <result_page_size>, the result set of the RESULT message returned for the query will contain at most the <result_page_size> first rows of the query result. If that first page of results contains the full result set for the query, the RESULT message (of kind `Rows`) will have the Has_more_pages flag *not* set. However, if some results are not part of the first response, the Has_more_pages flag will be set and the result will contain a <paging_state> value. In that case, the <paging_state> value should be used in a QUERY or EXECUTE message (that has the *same* query as the original one or the behavior is undefined) to retrieve the next page of results.

Only CQL3 queries that return a result set (RESULT message with a Rows `kind`) support paging. For other type of queries, the <result_page_size> value is ignored.

Note to client implementors:

- While <result_page_size> can be as low as 1, it will likely be detrimental to performance to pick a value too low. A value below 100 is probably too low for most use cases.
- Clients should not rely on the actual size of the result set returned to decide if there are more results to fetch or not. Instead, they should always check the Has_more_pages flag (unless they did not enable paging for the query obviously). Clients should also not assert that no result will have more than <result_page_size> results. While the current implementation always respects the exact value of <result_page_size>, we reserve the right to return slightly smaller or bigger pages in the future for performance reasons.
- The <paging_state> is specific to a protocol version and drivers should not send a <paging_state> returned by a node using the protocol v3 to query a node using the protocol v4 for instance.

9. Error codes

Let us recall that an ERROR message is composed of `<code><message>[...]` (see 4.2.1 for details). The supported error codes, as well as any additional information the message may contain after the `<message>` are described below:

0x0000 Server error: something unexpected happened. This indicates a server-side bug.

0x000A Protocol error: some client message triggered a protocol violation (for instance a QUERY message is sent before a STARTUP one has been sent)

0x0100 Authentication error: authentication was required and failed. The possible reason for failing depends on the authenticator in use, which may or may not include more detail in the accompanying error message.

0x1000 Unavailable exception. The rest of the ERROR message body will be `<cl><required><alive>`

where:

`<cl>` is the [consistency] level of the query that triggered the exception.

`<required>` is an [int] representing the number of nodes that should be alive to respect `<cl>`

`<alive>` is an [int] representing the number of replicas that were known to be alive when the request had been processed (since an unavailable exception has been triggered, there will be `<alive> < <required>`)

0x1001 Overloaded: the request cannot be processed because the coordinator node is overloaded

0x1002 Is_bootstrapping: the request was a read request but the coordinator node is bootstrapping

0x1003 Truncate_error: error during a truncation error.

0x1100 Write_timeout: Timeout exception during a write request. The rest of the ERROR message body will be `<cl><received><blockfor><writeType>`

where:

`<cl>` is the [consistency] level of the query having triggered the exception.

`<received>` is an [int] representing the number of nodes having acknowledged the request.

`<blockfor>` is an [int] representing the number of replicas whose acknowledgement is required to achieve `<cl>`.

`<writeType>` is a [string] that describe the type of the write that timed out. The value of that string can be one of:

- "SIMPLE": the write was a non-batched non-counter write.

- "BATCH": the write was a (logged) batch write.

If this type is received, it means the batch log has been successfully written (otherwise a "BATCH_LOG" type would have been sent instead).

- "UNLOGGED_BATCH": the write was an unlogged batch. No batch log write has been attempted.
- "COUNTER": the write was a counter write (batched or not).
- "BATCH_LOG": the timeout occurred during the write to the batch log when a (logged) batch write was requested.

0x1200 Read_timeout: Timeout exception during a read request. The rest of the ERROR message body will be

<cl><received><blockfor><data_present>

where:

<cl> is the [consistency] level of the query having triggered the exception.

<received> is an [int] representing the number of nodes having answered the request.

<blockfor> is an [int] representing the number of replicas whose response is required to achieve <cl>. Please note that it is possible to have <received> >= <blockfor> if <data_present> is false. Also in the (unlikely) case where <cl> is achieved but the coordinator node times out while waiting for read-repair acknowledgement.

<data_present> is a single byte. If its value is 0, it means the replica that was asked for data has not responded. Otherwise, the value is != 0.

0x1300 Read_failure: A non-timeout exception during a read request. The rest of the ERROR message body will be

<cl><received><blockfor><reasonmap><data_present>

where:

<cl> is the [consistency] level of the query having triggered the exception.

<received> is an [int] representing the number of nodes having answered the request.

<blockfor> is an [int] representing the number of replicas whose acknowledgement is required to achieve <cl>.

<reasonmap> is a map of endpoint to failure reason codes. This maps the endpoints of the replica nodes that failed when executing the request to a code representing the reason for the failure. The map is encoded starting with an [int] n followed by n pairs of <endpoint><failurecode> where <endpoint> is an [inetaddr] and <failurecode> is a [short] that has the following meaning:

0x0000 Unknown reason

0x0001 Too many tombstones read (as controlled by the yamll tombstone_failure_threshold option)

0x0002 The query uses an index but that index is not available (built) on the queried <endpoint>.

0x0003 The query writes on some CDC enabled tables, but the CDC space is full (CDC data isn't consumed fast enough). Note

that this can only happen in Write_failure in practice, but the reasons are shared between both exception.

0x0004 Some failures (one or more) were reported to the replica "leading" a counter write. The actual error didn't necessarily occur on the node that sent this failure, it is simply the node reporting it due to how counter writes work; the initial reason for the failure should have been logged on the actual replica on which the problem occurred, which may or may not be the same node.

Any other value for <failurecode> must be considered as an Unknown reason (but drivers should not fail) as new <failurecode> may be added without a bump of the protocol version.

<data_present> is a single byte. If its value is 0, it means the replica that was asked for data had not responded. Otherwise, the value is != 0.

0x1400 Function_failure: A (user defined) function failed during execution.

The rest of the ERROR message body will be

<keyspace><function><arg_types>

where:

<keyspace> is the keyspace [string] of the failed function

<function> is the name [string] of the failed function

<arg_types> [string list] one string for each argument type (as CQL type) of the failed function

0x1500 Write_failure: A non-timeout exception during a write request. The rest of the ERROR message body will be

<cl><received><blockfor><reasonmap><write_type>

where:

<cl> is the [consistency] level of the query having triggered the exception.

<received> is an [int] representing the number of nodes having answered the request.

<blockfor> is an [int] representing the number of replicas whose acknowledgement is required to achieve <cl>.

<reasonmap> is a map of endpoint to failure reason codes. This maps the endpoints of the replica nodes that failed when executing the request to a code representing the reason for the failure. The map is encoded starting with an [int] n followed by n pairs of <endpoint><failurecode> where <endpoint> is an [inetaddr] and <failurecode> is a [short] whose meaning is the same than in Read_failure (see above, though note that some reason only apply to writes and others only to reads).

<writeType> is a [string] that describes the type of the write that failed. The value of that string can be one of:

- "SIMPLE": the write was a non-batched non-counter write.

- "BATCH": the write was a (logged) batch write.

If this type is received, it means the batch log

- has been successfully written (otherwise a "BATCH_LOG" type would have been sent instead).
- "UNLOGGED_BATCH": the write was an unlogged batch. No batch log write has been attempted.
- "COUNTER": the write was a counter write (batched or not).
- "BATCH_LOG": the failure occurred during the write to the batch log when a (logged) batch write was requested.

- 0x2000 Syntax_error: The submitted query has a syntax error.
- 0x2100 Unauthorized: The logged user doesn't have the right to perform the query.
- 0x2200 Invalid: The query is syntactically correct but invalid.
- 0x2300 Config_error: The query is invalid because of some configuration issue
- 0x2400 Already_exists: The query attempted to create a keyspace or a table that was already existing. The rest of the ERROR message body will be <ks><table> where:
- <ks> is a [string] representing either the keyspace that already exists, or the keyspace in which the table that already exists is.
 - <table> is a [string] representing the name of the table that already exists. If the query was attempting to create a keyspace, <table> will be present but will be the empty string.
- 0x2500 Unprepared: Can be thrown while a prepared statement tries to be executed if the provided prepared statement ID is not known by this host. The rest of the ERROR message body will be [short bytes] representing the unknown ID.
- 0x8000 Client_write_failure: an error occurred when sending asynchronous results to the client, for example if the client is unable to keep up with the rate during a continuous paging session.

10. Changes from CQL binary protocol version 5

- * Second most significant bit in the frame version byte is set to one to indicate a dse protocol message (section 2.1)
- * Continuous paging:
 - * Added options to QUERY message (section 4.1.4)
 - * Added response parameters to ROWS response (section 4.2.5.2)
- * Added CANCEL message (section 4.1.9)
- * Does `_not_` have keypace field in QUERY, PREPARE, and BATCH messages (Sections 4.1.4, 4.1.5, and 4.1.7 of native-protocol-v5).
- * Does `_not_` have [int] flags field in PREPARE message (Section 4.1.5 of native-protocol-v5).

Found in path(s):

* /opt/cola/permits/1337324070_1654191441.387334/0/native-protocol-1-5-1-1-jar/dse_protocol_v1.spec

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

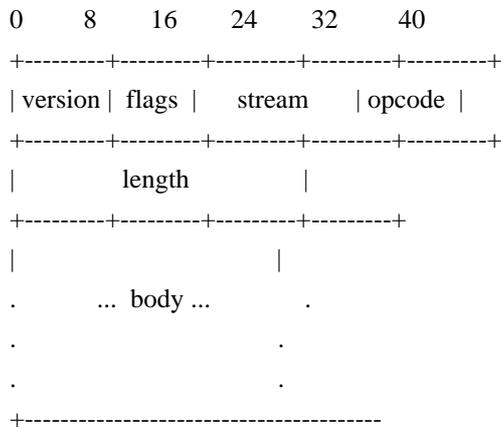
CQL BINARY PROTOCOL v5

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1. Overview

The CQL binary protocol is a frame based protocol. Frames are defined as:



The protocol is big-endian (network byte order).

Each frame contains a fixed size header (9 bytes) followed by a variable size body. The header is described in Section 2. The content of the body depends on the header opcode value (the body can in particular be empty for some opcode values). The list of allowed opcodes is defined in Section 2.4 and the details of each corresponding message are described Section 4.

The protocol distinguishes two types of frames: requests and responses. Requests are those frames sent by the client to the server. Responses are those frames sent by the server to the client. Note, however, that the protocol supports server pushes (events) so a response does not necessarily come right after a client request.

Note to client implementors: client libraries should always assume that the body of a given frame may contain more data than what is described in this document. It will however always be safe to ignore the remainder of the frame body in such cases. The reason is that this may enable extending the protocol with optional features without needing to change the protocol version.

2. Frame header

2.1. version

The version is a single byte that indicates both the direction of the message (request or response) and the version of the protocol in use. The most significant bit of version is used to define the direction of the message: 0 indicates a request, 1 indicates a response. This can be useful for protocol analyzers to distinguish the nature of the packet from the direction in which

it is moving. The rest of that byte is the protocol version (5 for the protocol defined in this document). In other words, for this version of the protocol, version will be one of:

- 0x04 Request frame for this protocol version
- 0x84 Response frame for this protocol version

Please note that while every message ships with the version, only one version of messages is accepted on a given connection. In other words, the first message exchanged (STARTUP) sets the version for the connection for the lifetime of this connection. The single exception to this behavior is when a startup message is sent with a version that is higher than the current server version. In this case, the server will respond with its current version.

This document describes version 5 of the protocol. For the changes made since version 4, see Section 10.

2.2. flags

Flags applying to this frame. The flags have the following meaning (described by the mask that allows selecting them):

- 0x01: Compression flag. If set, the frame body is compressed. The actual compression to use should have been set up beforehand through the Startup message (which thus cannot be compressed; Section 4.1.1).
- 0x02: Tracing flag. For a request frame, this indicates the client requires tracing of the request. Note that only QUERY, PREPARE and EXECUTE queries support tracing. Other requests will simply ignore the tracing flag if set. If a request supports tracing and the tracing flag is set, the response to this request will have the tracing flag set and contain tracing information.
If a response frame has the tracing flag set, its body contains a tracing ID. The tracing ID is a [uuid] and is the first thing in the frame body. The rest of the body will then be the usual body corresponding to the response opcode.
- 0x04: Custom payload flag. For a request or response frame, this indicates that a generic key-value custom payload for a custom QueryHandler implementation is present in the frame. Such a custom payload is simply ignored by the default QueryHandler implementation.
Currently, only QUERY, PREPARE, EXECUTE and BATCH requests support payload.
Type of custom payload is [bytes map] (see below).
- 0x08: Warning flag. The response contains warnings which were generated by the server to go along with this response.
If a response frame has the warning flag set, its body will contain the text of the warnings. The warnings are a [string list] and will be the first value in the frame body if the tracing flag is not set, or directly after the tracing ID if it is.
- 0x10: Use beta flag. Indicates that the client opts in to use protocol version

that is currently in beta. Server will respond with ERROR if protocol version is marked as beta on server and client does not provide this flag.

The rest of flags is currently unused and ignored.

2.3. stream

A frame has a stream id (a [short] value). When sending request messages, this stream id must be set by the client to a non-negative value (negative stream id are reserved for streams initiated by the server; currently all EVENT messages (section 4.2.6) have a streamId of -1). If a client sends a request message with the stream id X, it is guaranteed that the stream id of the response to that message will be X.

This helps to enable the asynchronous nature of the protocol. If a client sends multiple messages simultaneously (without waiting for responses), there is no guarantee on the order of the responses. For instance, if the client writes REQ_1, REQ_2, REQ_3 on the wire (in that order), the server might respond to REQ_3 (or REQ_2) first. Assigning different stream ids to these 3 requests allows the client to distinguish to which request a received answer responds to. As there can only be 32768 different simultaneous streams, it is up to the client to reuse stream id.

Note that clients are free to use the protocol synchronously (i.e. wait for the response to REQ_N before sending REQ_{N+1}). In that case, the stream id can be safely set to 0. Clients should also feel free to use only a subset of the 32768 maximum possible stream ids if it is simpler for its implementation.

2.4. opcode

An integer byte that distinguishes the actual message:

0x00	ERROR
0x01	STARTUP
0x02	READY
0x03	AUTHENTICATE
0x05	OPTIONS
0x06	SUPPORTED
0x07	QUERY
0x08	RESULT
0x09	PREPARE
0x0A	EXECUTE
0x0B	REGISTER
0x0C	EVENT
0x0D	BATCH
0x0E	AUTH_CHALLENGE
0x0F	AUTH_RESPONSE
0x10	AUTH_SUCCESS

Messages are described in Section 4.

(Note that there is no 0x04 message in this version of the protocol)

2.5. length

A 4 byte integer representing the length of the body of the frame (note: currently a frame is limited to 256MB in length).

3. Notations

To describe the layout of the frame body for the messages in Section 4, we define the following:

- [int] A 4 bytes integer
- [long] A 8 bytes integer
- [byte] A 1 byte unsigned integer
- [short] A 2 bytes unsigned integer
- [string] A [short] n, followed by n bytes representing an UTF-8 string.
- [long string] An [int] n, followed by n bytes representing an UTF-8 string.
- [uuid] A 16 bytes long uuid.
- [string list] A [short] n, followed by n [string].
- [bytes] A [int] n, followed by n bytes if $n \geq 0$. If $n < 0$, no byte should follow and the value represented is `null`.
- [value] A [int] n, followed by n bytes if $n \geq 0$.
If $n == -1$ no byte should follow and the value represented is `null`.
If $n == -2$ no byte should follow and the value represented is `not set` not resulting in any change to the existing value.
 $n < -2$ is an invalid value and results in an error.
- [short bytes] A [short] n, followed by n bytes if $n \geq 0$.

- [unsigned vint] An unsigned variable length integer. A vint is encoded with the most significant byte (MSB) first. The most significant byte will contains the information about how many extra bytes need to be read as well as the most significant bits of the integer. The number of extra bytes to read is encoded as 1 bits on the left side. For example, if we need to read 2 more bytes the first byte will start with 110 (e.g. 256 000 will be encoded on 3 bytes as [110]00011 11101000 00000000) If the encoded integer is 8 bytes long the vint will be encoded on 9 bytes and the first byte will be: 11111111

- [vint] A signed variable length integer. This is encoded using zig-zag encoding and then sent like an [unsigned vint]. Zig-zag encoding converts numbers as follows:
 $0 = 0, -1 = 1, 1 = 2, -2 = 3, 2 = 4, -3 = 5, 3 = 6$ and so forth.
The purpose is to send small negative values as small unsigned values, so that we save bytes on the wire.

To encode a value n use $(n \gg 31) \wedge (n \ll 1)$ for 32 bit values, and $(n \gg 63) \wedge (n \ll 1)$ for 64 bit values where \wedge is the xor operation, \ll is the left shift operation and \gg is the arithmetic right shift operation (highest-order bit is replicated). Decode with $(n \gg 1) \wedge \neg(n \& 1)$.

- [option] A pair of $\langle id \rangle \langle value \rangle$ where $\langle id \rangle$ is a [short] representing the option id and $\langle value \rangle$ depends on that option (and can be of size 0). The supported id (and the corresponding $\langle value \rangle$) will be described when this is used.
- [option list] A [short] n , followed by n [option].
- [inet] An address (ip and port) to a node. It consists of one [byte] n , that represents the address size, followed by n [byte] representing the IP address (in practice n can only be either 4 (IPv4) or 16 (IPv6)), following by one [int] representing the port.
- [inetaddr] An IP address (without a port) to a node. It consists of one [byte] n , that represents the address size, followed by n [byte] representing the IP address.
- [consistency] A consistency level specification. This is a [short] representing a consistency level with the following correspondance:
- 0x0000 ANY
 - 0x0001 ONE
 - 0x0002 TWO
 - 0x0003 THREE
 - 0x0004 QUORUM
 - 0x0005 ALL
 - 0x0006 LOCAL_QUORUM
 - 0x0007 EACH_QUORUM
 - 0x0008 SERIAL
 - 0x0009 LOCAL_SERIAL
 - 0x000A LOCAL_ONE
- [string map] A [short] n , followed by n pair $\langle k \rangle \langle v \rangle$ where $\langle k \rangle$ and $\langle v \rangle$ are [string].
- [string multimap] A [short] n , followed by n pair $\langle k \rangle \langle v \rangle$ where $\langle k \rangle$ is a [string] and $\langle v \rangle$ is a [string list].
- [bytes map] A [short] n , followed by n pair $\langle k \rangle \langle v \rangle$ where $\langle k \rangle$ is a [string] and $\langle v \rangle$ is a [bytes].

4. Messages

4.1. Requests

Note that outside of their normal responses (described below), all requests can get an ERROR message (Section 4.2.1) as response.

4.1.1. STARTUP

Initialize the connection. The server will respond by either a `READY` message (in which case the connection is ready for queries) or an `AUTHENTICATE` message (in which case credentials will need to be provided using `AUTH_RESPONSE`).

This must be the first message of the connection, except for `OPTIONS` that can be sent before to find out the options supported by the server. Once the connection has been initialized, a client should not send any more `STARTUP` messages.

The body is a [string map] of options. Possible options are:

- "`CQL_VERSION`": the version of CQL to use. This option is mandatory and currently the only version supported is "3.0.0". Note that this is different from the protocol version.
- "`COMPRESSION`": the compression algorithm to use for frames (See section 5). This is optional; if not specified no compression will be used.

4.1.2. AUTH_RESPONSE

Answers a server authentication challenge.

Authentication in the protocol is SASL based. The server sends authentication challenges (a bytes token) to which the client answers with this message. Those exchanges continue until the server accepts the authentication by sending a `AUTH_SUCCESS` message after a client `AUTH_RESPONSE`. Note that the exchange begins with the client sending an initial `AUTH_RESPONSE` in response to a server `AUTHENTICATE` request.

The body of this message is a single [bytes] token. The details of what this token contains (and when it can be null/empty, if ever) depends on the actual authenticator used.

The response to a `AUTH_RESPONSE` is either a follow-up `AUTH_CHALLENGE` message, an `AUTH_SUCCESS` message or an `ERROR` message.

4.1.3. OPTIONS

Asks the server to return which `STARTUP` options are supported. The body of an `OPTIONS` message should be empty and the server will respond with a `SUPPORTED` message.

4.1.4. QUERY

Performs a CQL query. The body of the message must be:

<query><query_parameters>
where <query> is a [long string] representing the query and
<query_parameters> must be
<consistency><flags>[<n>[name_1]<value_1>...[name_n]<value_n>][<result_page_size>][<paging_state>][<serial_consistency>][<timestamp>][<keyspace>]

where:

- <consistency> is the [consistency] level for the operation.
- <flags> is a [int] whose bits define the options for this query and in particular influence what the remainder of the message contains. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:

0x01: Values. If set, a [short] <n> followed by <n> [value] values are provided. Those values are used for bound variables in the query. Optionally, if the 0x40 flag is present, each value will be preceded by a [string] name, representing the name of the marker the value must be bound to.

0x02: Skip_metadata. If set, the Result Set returned as a response to the query (if any) will have the NO_METADATA flag (see Section 4.2.5.2).

0x04: Page_size. If set, <result_page_size> is an [int] controlling the desired page size of the result (in CQL3 rows). See the section on paging (Section 8) for more details.

0x08: With_paging_state. If set, <paging_state> should be present. <paging_state> is a [bytes] value that should have been returned in a result set (Section 4.2.5.2). The query will be executed but starting from a given paging state. This is also to continue paging on a different node than the one where it started (See Section 8 for more details).

0x10: With serial consistency. If set, <serial_consistency> should be present. <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present, it defaults to SERIAL. This option will be ignored for anything else other than a conditional update/insert.

0x20: With default timestamp. If set, <timestamp> should be present. <timestamp> is a [long] representing the default timestamp for the query in microseconds (negative values are forbidden). This will replace the server side assigned timestamp as default timestamp. Note that a timestamp in the query itself will still override this timestamp. This is entirely optional.

0x40: With names for values. This only makes sense if the 0x01 flag is set and is ignored otherwise. If present, the values from the 0x01 flag will be preceded by a name (see above). Note that this is only useful for QUERY requests where named bind markers are used; for EXECUTE statements, since the names for the expected values was returned during preparation, a client can always provide values in the right order without any names and using this flag, while supported, is almost surely inefficient.

0x80: With keyspace. If set, <keyspace> must be present. <keyspace> is a

[string] indicating the keyspace that the query should be executed in.
It supercedes the keyspace that the connection is bound to, if any.

Note that the consistency is ignored by some queries (USE, CREATE, ALTER, TRUNCATE, ...).

The server will respond to a QUERY message with a RESULT message, the content of which depends on the query.

4.1.5. PREPARE

Prepare a query for later execution (through EXECUTE). The body of the message must be:

<query><flags>[<keyspace>]

where:

- <query> is a [long string] representing the CQL query.
- <flags> is a [int] whose bits define the options for this statement and in particular influence what the remainder of the message contains.

A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:

- 0x01: With keyspace. If set, <keyspace> must be present. <keyspace> is a [string] indicating the keyspace that the query should be executed in. It supercedes the keyspace that the connection is bound to, if any.

The server will respond with a RESULT message with a `prepared` kind (0x0004, see Section 4.2.5).

4.1.6. EXECUTE

Executes a prepared query. The body of the message must be:

<id><result_metadata_id><query_parameters>

where

- <id> is the prepared query ID. It's the [short bytes] returned as a response to a PREPARE message. As for <query_parameters>, it has the exact same definition as in QUERY (see Section 4.1.4).
- <result_metadata_id> is the ID of the resultset metadata that was sent along with response to PREPARE message. If a RESULT/Rows message reports changed resultset metadata with the Metadata_changed flag, the reported new resultset metadata must be used in subsequent executions.

4.1.7. BATCH

Allows executing a list of queries (prepared or not) as a batch (note that only DML statements are accepted in a batch). The body of the message must be:

<type><n><query_1>...<query_n><consistency><flags>[<serial_consistency>][<timestamp>][<keyspace>]

where:

- <type> is a [byte] indicating the type of batch to use:
 - If <type> == 0, the batch will be "logged". This is equivalent to a normal CQL3 batch statement.
 - If <type> == 1, the batch will be "unlogged".
 - If <type> == 2, the batch will be a "counter" batch (and non-counter statements will be rejected).
- <flags> is a [int] whose bits define the options for this query and in particular influence what the remainder of the message contains. It is similar to the <flags> from QUERY and EXECUTE methods, except that the 4 rightmost bits must always be 0 as their corresponding options do not make sense for Batch. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:

0x10: With serial consistency. If set, <serial_consistency> should be present. <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present, it defaults to SERIAL. This option will be ignored for anything else other than a conditional update/insert.

0x20: With default timestamp. If set, <timestamp> should be present. <timestamp> is a [long] representing the default timestamp for the query in microseconds. This will replace the server side assigned timestamp as default timestamp. Note that a timestamp in the query itself will still override this timestamp. This is entirely optional.

0x40: With names for values. If set, then all values for all <query_i> must be preceded by a [string] <name_i> that have the same meaning as in QUERY requests [IMPORTANT NOTE: this feature does not work and should not be used. It is specified in a way that makes it impossible for the server to implement. This will be fixed in a future version of the native protocol. See <https://issues.apache.org/jira/browse/CASSANDRA-10246> for more details].

0x80: With keyspace. If set, <keyspace> must be present. <keyspace> is a [string] indicating the keyspace that the query should be executed in. It supercedes the keyspace that the connection is bound to, if any.

- <n> is a [short] indicating the number of following queries.
- <query_1>...<query_n> are the queries to execute. A <query_i> must be of the form:

<kind><string_or_id><n><name_1><value_1>...<name_n><value_n>

where:

- <kind> is a [byte] indicating whether the following query is a prepared one or not. <kind> value must be either 0 or 1.
- <string_or_id> depends on the value of <kind>. If <kind> == 0, it should be a [long string] query string (as in QUERY, the query string might contain bind markers). Otherwise (that is, if <kind> == 1), it should be a [short bytes] representing a prepared query ID.
- <n> is a [short] indicating the number (possibly 0) of following values.
- <name_i> is the optional name of the following <value_i>. It must be present if and only if the 0x40 flag is provided for the batch.

- <value_i> is the [value] to use for bound variable i (of bound variable <name_i> if the 0x40 flag is used).
- <consistency> is the [consistency] level for the operation.
- <serial_consistency> is only present if the 0x10 flag is set. In that case, <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present will default to SERIAL. This option will be ignored for anything else other than a conditional update/insert.

The server will respond with a RESULT message.

4.1.8. REGISTER

Register this connection to receive some types of events. The body of the message is a [string list] representing the event types to register for. See section 4.2.6 for the list of valid event types.

The response to a REGISTER message will be a READY message.

Please note that if a client driver maintains multiple connections to a Cassandra node and/or connections to multiple nodes, it is advised to dedicate a handful of connections to receive events, but to **not** register for events on all connections, as this would only result in receiving multiple times the same event messages, wasting bandwidth.

4.2. Responses

This section describes the content of the frame body for the different responses. Please note that to make room for future evolution, clients should support extra informations (that they should simply discard) to the one described in this document at the end of the frame body.

4.2.1. ERROR

Indicates an error processing a request. The body of the message will be an error code ([int]) followed by a [string] error message. Then, depending on the exception, more content may follow. The error codes are defined in Section 9, along with their additional content if any.

4.2.2. READY

Indicates that the server is ready to process queries. This message will be sent by the server either after a STARTUP message if no authentication is required (if authentication is required, the server indicates readiness by sending a AUTH_RESPONSE message).

The body of a READY message is empty.

4.2.3. AUTHENTICATE

Indicates that the server requires authentication, and which authentication mechanism to use.

The authentication is SASL based and thus consists of a number of server challenges (AUTH_CHALLENGE, Section 4.2.7) followed by client responses (AUTH_RESPONSE, Section 4.1.2). The initial exchange is however bootstrapped by an initial client response. The details of that exchange (including how many challenge-response pairs are required) are specific to the authenticator in use. The exchange ends when the server sends an AUTH_SUCCESS message or an ERROR message.

This message will be sent following a STARTUP message if authentication is required and must be answered by a AUTH_RESPONSE message from the client.

The body consists of a single [string] indicating the full class name of the IAuthenticator in use.

4.2.4. SUPPORTED

Indicates which startup options are supported by the server. This message comes as a response to an OPTIONS message.

The body of a SUPPORTED message is a [string multimap]. This multimap gives for each of the supported STARTUP options, the list of supported values. It also includes:

- "PROTOCOL_VERSIONS": the list of native protocol versions that are supported, encoded as the version number followed by a slash and the version description. For example: 3/v3, 4/v4, 5/v5-beta. If a version is in beta, it will have the word "beta" in its description.

4.2.5. RESULT

The result to a query (QUERY, PREPARE, EXECUTE or BATCH messages).

The first element of the body of a RESULT message is an [int] representing the `kind` of result. The rest of the body depends on the kind. The kind can be one of:

- 0x0001 Void: for results carrying no information.
- 0x0002 Rows: for results to select queries, returning a set of rows.
- 0x0003 Set_keyspace: the result to a `use` query.

0x0004 Prepared: result to a PREPARE message.

0x0005 Schema_change: the result to a schema altering query.

The body for each kind (after the [int] kind) is defined below.

4.2.5.1. Void

The rest of the body for a Void result is empty. It indicates that a query was successful without providing more information.

4.2.5.2. Rows

Indicates a set of rows. The rest of the body of a Rows result is:

<metadata><rows_count><rows_content>

where:

- <metadata> is composed of:

<flags><columns_count>[<paging_state>][<new_metadata_id>][<global_table_spec>?<col_spec_1>...<col_spec_n>]

where:

- <flags> is an [int]. The bits of <flags> provides information on the formatting of the remaining information. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:

0x0001 Global_tables_spec: if set, only one table spec (keyspace and table name) is provided as <global_table_spec>. If not set, <global_table_spec> is not present.

0x0002 Has_more_pages: indicates whether this is not the last page of results and more should be retrieved. If set, the <paging_state> will be present. The <paging_state> is a [bytes] value that should be used in QUERY/EXECUTE to continue paging and retrieve the remainder of the result for this query (See Section 8 for more details).

0x0004 No_metadata: if set, the <metadata> is only composed of these <flags>, the <column_count> and optionally the <paging_state> (depending on the Has_more_pages flag) but no other information (so no <global_table_spec> nor <col_spec_i>). This will only ever be the case if this was requested during the query (see QUERY and RESULT messages).

0x0008 Metadata_changed: if set, the No_metadata flag has to be unset and <new_metadata_id> has to be supplied. This flag is to be used to avoid a roundtrip in case of metadata changes for queries that requested metadata to be skipped.

- <columns_count> is an [int] representing the number of columns selected by the query that produced this result. It defines the number of <col_spec_i> elements in and the number of elements for each row in <rows_content>.

- <new_metadata_id> is [short bytes] representing the new, changed resultset

metadata. The new metadata ID must also be used in subsequent executions of the corresponding prepared statement, if any.

- <global_table_spec> is present if the Global_tables_spec is set in <flags>. It is composed of two [string] representing the (unique) keyspace name and table name the columns belong to.
- <col_spec_i> specifies the columns returned in the query. There are <column_count> such column specifications that are composed of:
(<ksname><tablename>)?<name><type>

The initial <ksname> and <tablename> are two [string] and are only present if the Global_tables_spec flag is not set. The <column_name> is a [string] and <type> is an [option] that corresponds to the description (what this description is depends a bit on the context: in results to selects, this will be either the user chosen alias or the selection used (often a column name, but it can be a function call too). In results to a PREPARE, this will be either the name of the corresponding bind variable or the column name for the variable if it is "anonymous") and type of the corresponding result. The option for <type> is either a native type (see below), in which case the option has no value, or a 'custom' type, in which case the value is a [string] representing the fully qualified class name of the type represented. Valid option ids are:

- 0x0000 Custom: the value is a [string], see above.
- 0x0001 Ascii
- 0x0002 Bigint
- 0x0003 Blob
- 0x0004 Boolean
- 0x0005 Counter
- 0x0006 Decimal
- 0x0007 Double
- 0x0008 Float
- 0x0009 Int
- 0x000B Timestamp
- 0x000C Uuid
- 0x000D Varchar
- 0x000E Varint
- 0x000F Timeuuid
- 0x0010 Inet
- 0x0011 Date
- 0x0012 Time
- 0x0013 Smallint
- 0x0014 Tinyint
- 0x0015 Duration
- 0x0020 List: the value is an [option], representing the type of the elements of the list.
- 0x0021 Map: the value is two [option], representing the types of the keys and values of the map
- 0x0022 Set: the value is an [option], representing the type of the elements of the set

0x0030 UDT: the value is <ks><udt_name><n><name_1><type_1>...<name_n><type_n>

where:

- <ks> is a [string] representing the keyspace name this UDT is part of.
- <udt_name> is a [string] representing the UDT name.
- <n> is a [short] representing the number of fields of the UDT, and thus the number of <name_i><type_i> pairs following
- <name_i> is a [string] representing the name of the i_th field of the UDT.
- <type_i> is an [option] representing the type of the i_th field of the UDT.

0x0031 Tuple: the value is <n><type_1>...<type_n> where <n> is a [short] representing the number of values in the type, and <type_i> are [option] representing the type of the i_th component of the tuple

- <rows_count> is an [int] representing the number of rows present in this result. Those rows are serialized in the <rows_content> part.
- <rows_content> is composed of <row_1>...<row_m> where m is <rows_count>. Each <row_i> is composed of <value_1>...<value_n> where n is <columns_count> and where <value_j> is a [bytes] representing the value returned for the jth column of the ith row. In other words, <rows_content> is composed of (<rows_count> * <columns_count>) [bytes].

4.2.5.3. Set_keyspace

The result to a `use` query. The body (after the kind [int]) is a single [string] indicating the name of the keyspace that has been set.

4.2.5.4. Prepared

The result to a PREPARE message. The body of a Prepared result is:

<id><result_metadata_id><metadata><result_metadata>

where:

- <id> is [short bytes] representing the prepared query ID.
- <result_metadata_id> is [short bytes] representing the resultset metadata ID.
- <metadata> is composed of:

<flags><columns_count><pk_count>[<pk_index_1>...<pk_index_n>][<global_table_spec>?<col_spec_1>...<col_spec_n>]

where:

- <flags> is an [int]. The bits of <flags> provides information on the formatting of the remaining information. A flag is set if the bit corresponding to its `mask` is set. Supported masks and their flags are:

0x0001 Global_tables_spec: if set, only one table spec (keyspace

and table name) is provided as <global_table_spec>. If not set, <global_table_spec> is not present.

- <columns_count> is an [int] representing the number of bind markers in the prepared statement. It defines the number of <col_spec_i> elements.

- <pk_count> is an [int] representing the number of <pk_index_i> elements to follow. If this value is zero, at least one of the partition key columns in the table that the statement acts on did not have a corresponding bind marker (or the bind marker was wrapped in a function call).

- <pk_index_i> is a short that represents the index of the bind marker that corresponds to the partition key column in position i.

For example, a <pk_index> sequence of [2, 0, 1] indicates that the table has three partition key columns; the full partition key can be constructed by creating a composite of the values for the bind markers at index 2, at index 0, and at index 1.

This allows implementations with token-aware routing to correctly construct the partition key without needing to inspect table metadata.

- <global_table_spec> is present if the Global_tables_spec is set in <flags>. If present, it is composed of two [string]s. The first [string] is the name of the keyspace that the statement acts on. The second [string] is the name of the table that the columns represented by the bind markers belong to.

- <col_spec_i> specifies the bind markers in the prepared statement. There are <column_count> such column specifications, each with the following format:

(<kname><tablename>)?<name><type>

The initial <kname> and <tablename> are two [string] that are only present if the Global_tables_spec flag is not set. The <name> field is a [string] that holds the name of the bind marker (if named), or the name of the column, field, or expression that the bind marker corresponds to (if the bind marker is "anonymous"). The <type> field is an [option] that represents the expected type of values for the bind marker. See the Rows documentation (section 4.2.5.2) for full details on the <type> field.

- <result_metadata> is defined exactly the same as <metadata> in the Rows documentation (section 4.2.5.2). This describes the metadata for the result set that will be returned when this prepared statement is executed. Note that <result_metadata> may be empty (have the No_metadata flag and 0 columns, See section 4.2.5.2) and will be for any query that is not a Select. In fact, there is never a guarantee that this will be non-empty, so implementations should protect themselves accordingly. This result metadata is an optimization that allows implementations to later execute the prepared statement without requesting the metadata (see the Skip_metadata flag in EXECUTE). Clients can safely discard this metadata if they do not want to take advantage of that optimization.

Note that the prepared query ID returned is global to the node on which the query has been prepared. It can be used on any connection to that node until the node is restarted (after which the query must be reprepared).

4.2.5.5. Schema_change

The result to a schema altering query (creation/update/drop of a keyspace/table/index). The body (after the kind [int]) is the same as the body for a "SCHEMA_CHANGE" event, so 3 strings:

<change_type><target><options>

Please refer to section 4.2.6 below for the meaning of those fields.

Note that a query to create or drop an index is considered to be a change to the table the index is on.

4.2.6. EVENT

An event pushed by the server. A client will only receive events for the types it has REGISTERed to. The body of an EVENT message will start with a [string] representing the event type. The rest of the message depends on the event type. The valid event types are:

- "TOPOLOGY_CHANGE": events related to change in the cluster topology. Currently, events are sent when new nodes are added to the cluster, and when nodes are removed. The body of the message (after the event type) consists of a [string] and an [inet], corresponding respectively to the type of change ("NEW_NODE" or "REMOVED_NODE") followed by the address of the new/removed node.
- "STATUS_CHANGE": events related to change of node status. Currently, up/down events are sent. The body of the message (after the event type) consists of a [string] and an [inet], corresponding respectively to the type of status change ("UP" or "DOWN") followed by the address of the concerned node.
- "SCHEMA_CHANGE": events related to schema change. After the event type, the rest of the message will be <change_type><target><options> where:
 - <change_type> is a [string] representing the type of changed involved. It will be one of "CREATED", "UPDATED" or "DROPPED".
 - <target> is a [string] that can be one of "KEYSPACE", "TABLE", "TYPE", "FUNCTION" or "AGGREGATE" and describes what has been modified ("TYPE" stands for modifications related to user types, "FUNCTION" for modifications related to user defined functions, "AGGREGATE" for modifications related to user defined aggregates).
 - <options> depends on the preceding <target>:
 - If <target> is "KEYSPACE", then <options> will be a single [string] representing the keyspace changed.
 - If <target> is "TABLE" or "TYPE", then <options> will be 2 [string]: the first one will be the keyspace

containing the affected object, and the second one will be the name of said affected object (either the table, user type, function, or aggregate name).

- If <target> is "FUNCTION" or "AGGREGATE", multiple arguments follow:
 - [string] keyspace containing the user defined function / aggregate
 - [string] the function/aggregate name
 - [string list] one string for each argument type (as CQL type)

All EVENT messages have a streamId of -1 (Section 2.3).

Please note that "NEW_NODE" and "UP" events are sent based on internal Gossip communication and as such may be sent a short delay before the binary protocol server on the newly up node is fully started. Clients are thus advised to wait a short time before trying to connect to the node (1 second should be enough), otherwise they may experience a connection refusal at first.

4.2.7. AUTH_CHALLENGE

A server authentication challenge (see AUTH_RESPONSE (Section 4.1.2) for more details).

The body of this message is a single [bytes] token. The details of what this token contains (and when it can be null/empty, if ever) depends on the actual authenticator used.

Clients are expected to answer the server challenge with an AUTH_RESPONSE message.

4.2.8. AUTH_SUCCESS

Indicates the success of the authentication phase. See Section 4.2.3 for more details.

The body of this message is a single [bytes] token holding final information from the server that the client may require to finish the authentication process. What that token contains and whether it can be null depends on the actual authenticator used.

5. Compression

Frame compression is supported by the protocol, but then only the frame body is compressed (the frame header should never be compressed).

Before being used, client and server must agree on a compression algorithm to use, which is done in the STARTUP message. As a consequence, a STARTUP message must never be compressed. However, once the STARTUP frame has been received

by the server, messages can be compressed (including the response to the STARTUP request). Frames do not have to be compressed, however, even if compression has been agreed upon (a server may only compress frames above a certain size at its discretion). A frame body should be compressed if and only if the compressed flag (see Section 2.2) is set.

As of version 2 of the protocol, the following compressions are available:

- lz4 (<https://code.google.com/p/lz4/>). In that, note that the first four bytes of the body will be the uncompressed length (followed by the compressed bytes).
- snappy (<https://code.google.com/p/snappy/>). This compression might not be available as it depends on a native lib (server-side) that might not be available on some installations.

6. Data Type Serialization Formats

This section describes the serialization formats for all CQL data types supported by Cassandra through the native protocol. These serialization formats should be used by client drivers to encode values for EXECUTE messages. Cassandra will use these formats when returning values in RESULT messages.

All values are represented as [bytes] in EXECUTE and RESULT messages. The [bytes] format includes an int prefix denoting the length of the value. For that reason, the serialization formats described here will not include a length component.

For legacy compatibility reasons, note that most non-string types support "empty" values (i.e. a value with zero length). An empty value is distinct from NULL, which is encoded with a negative length.

As with the rest of the native protocol, all encodings are big-endian.

6.1. ascii

A sequence of bytes in the ASCII range [0, 127]. Bytes with values outside of this range will result in a validation error.

6.2. bigint

An eight-byte two's complement integer.

6.3. blob

Any sequence of bytes.

6.4. boolean

A single byte. A value of 0 denotes "false"; any other value denotes "true". (However, it is recommended that a value of 1 be used to represent "true".)

6.5 date

An unsigned integer representing days with epoch centered at 2^{31} . (unix epoch January 1st, 1970).

A few examples:

0: -5877641-06-23

2^{31} : 1970-1-1

2^{32} : 5881580-07-11

6.6 decimal

The decimal format represents an arbitrary-precision number. It contains an [int] "scale" component followed by a varint encoding (see section 6.17) of the unscaled value. The encoded value represents "`<unscaled>E<-scale>`". In other words, "`<unscaled> * 10 ^ (-1 * <scale>)`".

6.7 double

An 8 byte floating point number in the IEEE 754 binary64 format.

6.8 duration

A duration is composed of 3 signed variable length integers ([vint]s).

The first [vint] represents a number of months, the second [vint] represents a number of days, and the last [vint] represents a number of nanoseconds.

The number of months and days must be valid 32 bits integers whereas the number of nanoseconds must be a valid 64 bits integer.

A duration can either be positive or negative. If a duration is positive all the integers must be positive or zero. If a duration is negative all the numbers must be negative or zero.

6.9 float

A 4 byte floating point number in the IEEE 754 binary32 format.

6.10 inet

A 4 byte or 16 byte sequence denoting an IPv4 or IPv6 address, respectively.

6.11 int

A 4 byte two's complement integer.

6.12 list

A [int] n indicating the number of elements in the list, followed by n elements. Each element is [bytes] representing the serialized value.

6.13 map

A [int] n indicating the number of key/value pairs in the map, followed by n entries. Each entry is composed of two [bytes] representing the key and value.

6.14 set

A [int] n indicating the number of elements in the set, followed by n elements. Each element is [bytes] representing the serialized value.

6.15 smallint

A 2 byte two's complement integer.

6.16 text

A sequence of bytes conforming to the UTF-8 specifications.

6.17 time

An 8 byte two's complement long representing nanoseconds since midnight. Valid values are in the range 0 to 8639999999999

6.18 timestamp

An 8 byte two's complement integer representing a millisecond-precision offset from the unix epoch (00:00:00, January 1st, 1970). Negative values represent a negative offset from the epoch.

6.19 timeuuid

A 16 byte sequence representing a version 1 UUID as defined by RFC 4122.

6.20 tinyint

A 1 byte two's complement integer.

6.21 tuple

A sequence of [bytes] values representing the items in a tuple. The encoding of each element depends on the data type for that position in the tuple.

Null values may be represented by using length -1 for the [bytes] representation of an element.

6.22 uuid

A 16 byte sequence representing any valid UUID as defined by RFC 4122.

6.23 varchar

An alias of the "text" type.

6.24 varint

A variable-length two's complement encoding of a signed integer.

The following examples may help implementors of this spec:

Value | Encoding

Value	Encoding
0	0x00
1	0x01
127	0x7F
128	0x0080
129	0x0081
-1	0xFF
-128	0x80
-129	0xFF7F

Note that positive numbers must use a most-significant byte with a value less than 0x80, because a most-significant bit of 1 indicates a negative value. Implementors should pad positive values that have a MSB \geq 0x80 with a leading 0x00 byte.

7. User Defined Types

This section describes the serialization format for User defined types (UDT), as described in section 4.2.5.2.

A UDT value is composed of successive [bytes] values, one for each field of the UDT value (in the order defined by the type). A UDT value will generally have one value for each field of the type it represents, but it is allowed to have less values than the type has fields.

8. Result paging

The protocol allows for paging the result of queries. For that, the QUERY and EXECUTE messages have a <result_page_size> value that indicate the desired page size in CQL3 rows.

If a positive value is provided for `<result_page_size>`, the result set of the RESULT message returned for the query will contain at most the `<result_page_size>` first rows of the query result. If that first page of results contains the full result set for the query, the RESULT message (of kind `Rows``) will have the `Has_more_pages` flag `*not*` set. However, if some results are not part of the first response, the `Has_more_pages` flag will be set and the result will contain a `<paging_state>` value. In that case, the `<paging_state>` value should be used in a QUERY or EXECUTE message (that has the `*same*` query as the original one or the behavior is undefined) to retrieve the next page of results.

Only CQL3 queries that return a result set (RESULT message with a `Rows`` kind) support paging. For other type of queries, the `<result_page_size>` value is ignored.

Note to client implementors:

- While `<result_page_size>` can be as low as 1, it will likely be detrimental to performance to pick a value too low. A value below 100 is probably too low for most use cases.
- Clients should not rely on the actual size of the result set returned to decide if there are more results to fetch or not. Instead, they should always check the `Has_more_pages` flag (unless they did not enable paging for the query obviously). Clients should also not assert that no result will have more than `<result_page_size>` results. While the current implementation always respects the exact value of `<result_page_size>`, we reserve the right to return slightly smaller or bigger pages in the future for performance reasons.
- The `<paging_state>` is specific to a protocol version and drivers should not send a `<paging_state>` returned by a node using the protocol v3 to query a node using the protocol v4 for instance.

9. Error codes

Let us recall that an ERROR message is composed of `<code><message>[...]` (see 4.2.1 for details). The supported error codes, as well as any additional information the message may contain after the `<message>` are described below:

- 0x0000 Server error: something unexpected happened. This indicates a server-side bug.
- 0x000A Protocol error: some client message triggered a protocol violation (for instance a QUERY message is sent before a STARTUP one has been sent)
- 0x0100 Authentication error: authentication was required and failed. The possible reason for failing depends on the authenticator in use, which may or may not include more detail in the accompanying error message.
- 0x1000 Unavailable exception. The rest of the ERROR message body will be `<cl><required><alive>`

where:

- <cl> is the [consistency] level of the query that triggered the exception.
- <required> is an [int] representing the number of nodes that should be alive to respect <cl>
- <alive> is an [int] representing the number of replicas that were known to be alive when the request had been processed (since an unavailable exception has been triggered, there will be <alive> < <required>)

- 0x1001 Overloaded: the request cannot be processed because the coordinator node is overloaded
- 0x1002 Is_bootstrapping: the request was a read request but the coordinator node is bootstrapping
- 0x1003 Truncate_error: error during a truncation error.
- 0x1100 Write_timeout: Timeout exception during a write request. The rest of the ERROR message body will be
<cl><received><blockfor><writeType>

where:

- <cl> is the [consistency] level of the query having triggered the exception.
- <received> is an [int] representing the number of nodes having acknowledged the request.
- <blockfor> is an [int] representing the number of replicas whose acknowledgement is required to achieve <cl>.
- <writeType> is a [string] that describe the type of the write that timed out. The value of that string can be one of:

- "SIMPLE": the write was a non-batched non-counter write.
- "BATCH": the write was a (logged) batch write. If this type is received, it means the batch log has been successfully written (otherwise a "BATCH_LOG" type would have been sent instead).
- "UNLOGGED_BATCH": the write was an unlogged batch. No batch log write has been attempted.
- "COUNTER": the write was a counter write (batched or not).
- "BATCH_LOG": the timeout occurred during the write to the batch log when a (logged) batch write was requested.

- 0x1200 Read_timeout: Timeout exception during a read request. The rest of the ERROR message body will be
<cl><received><blockfor><data_present>

where:

- <cl> is the [consistency] level of the query having triggered the exception.
- <received> is an [int] representing the number of nodes having answered the request.

<blockfor> is an [int] representing the number of replicas whose response is required to achieve <cl>. Please note that it is possible to have <received> >= <blockfor> if <data_present> is false. Also in the (unlikely) case where <cl> is achieved but the coordinator node times out while waiting for read-repair acknowledgement.

<data_present> is a single byte. If its value is 0, it means the replica that was asked for data has not responded. Otherwise, the value is != 0.

0x1300 Read_failure: A non-timeout exception during a read request. The rest of the ERROR message body will be

<cl><received><blockfor><reasonmap><data_present>

where:

<cl> is the [consistency] level of the query having triggered the exception.

<received> is an [int] representing the number of nodes having answered the request.

<blockfor> is an [int] representing the number of replicas whose acknowledgement is required to achieve <cl>.

<reasonmap> is a map of endpoint to failure reason codes. This maps the endpoints of the replica nodes that failed when executing the request to a code representing the reason for the failure. The map is encoded starting with an [int] n followed by n pairs of <endpoint><failurecode> where <endpoint> is an [inetaddr] and <failurecode> is a [short].

<data_present> is a single byte. If its value is 0, it means the replica that was asked for data had not responded. Otherwise, the value is != 0.

0x1400 Function_failure: A (user defined) function failed during execution.

The rest of the ERROR message body will be

<keyspace><function><arg_types>

where:

<keyspace> is the keyspace [string] of the failed function

<function> is the name [string] of the failed function

<arg_types> [string list] one string for each argument type (as CQL type) of the failed function

0x1500 Write_failure: A non-timeout exception during a write request. The rest

of the ERROR message body will be

<cl><received><blockfor><reasonmap><write_type>

where:

<cl> is the [consistency] level of the query having triggered the exception.

<received> is an [int] representing the number of nodes having answered the request.

<blockfor> is an [int] representing the number of replicas whose acknowledgement is required to achieve <cl>.

<reasonmap> is a map of endpoint to failure reason codes. This maps the endpoints of the replica nodes that failed when executing the request to a code representing the reason

for the failure. The map is encoded starting with an [int] n followed by n pairs of <endpoint><failurecode> where <endpoint> is an [inetaddr] and <failurecode> is a [short]. <writeType> is a [string] that describes the type of the write that failed. The value of that string can be one of:

- "SIMPLE": the write was a non-batched non-counter write.
- "BATCH": the write was a (logged) batch write. If this type is received, it means the batch log has been successfully written (otherwise a "BATCH_LOG" type would have been sent instead).
- "UNLOGGED_BATCH": the write was an unlogged batch. No batch log write has been attempted.
- "COUNTER": the write was a counter write (batched or not).
- "BATCH_LOG": the failure occurred during the write to the batch log when a (logged) batch write was requested.

- 0x2000 Syntax_error: The submitted query has a syntax error.
- 0x2100 Unauthorized: The logged user doesn't have the right to perform the query.
- 0x2200 Invalid: The query is syntactically correct but invalid.
- 0x2300 Config_error: The query is invalid because of some configuration issue
- 0x2400 Already_exists: The query attempted to create a keyspaces or a table that was already existing. The rest of the ERROR message body will be <ks><table> where:
- <ks> is a [string] representing either the keyspaces that already exists, or the keyspaces in which the table that already exists is.
 - <table> is a [string] representing the name of the table that already exists. If the query was attempting to create a keyspaces, <table> will be present but will be the empty string.
- 0x2500 Unprepared: Can be thrown while a prepared statement tries to be executed if the provided prepared statement ID is not known by this host. The rest of the ERROR message body will be [short bytes] representing the unknown ID.

10. Changes from v4

- * Beta protocol flag for v5 native protocol is added (Section 2.2)
- * <numfailures> in Read_failure and Write_failure error message bodies (Section 9) has been replaced with <reasonmap>. The <reasonmap> maps node IP addresses to a failure reason code which indicates why the request failed on that node.
- * Enlarged flag's bitmaps for QUERY, EXECUTE and BATCH messages from [byte] to [int] (Sections 4.1.4, 4.1.6 and 4.1.7).

- * Add the duration data type
- * Added keyspaces field in QUERY, PREPARE, and BATCH messages (Sections 4.1.4, 4.1.5, and 4.1.7).
- * Added [int] flags field in PREPARE message (Section 4.1.5).

Found in path(s):

* /opt/cola/permits/1337324070_1654191441.387334/0/native-protocol-1-5-1-1-jar/native_protocol_v5.spec

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

CQL BINARY PROTOCOL v3

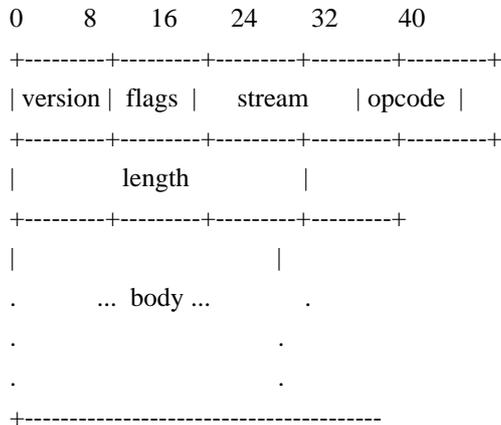
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1. Overview

The CQL binary protocol is a frame based protocol. Frames are defined as:



The protocol is big-endian (network byte order).

Each frame contains a fixed size header (9 bytes) followed by a variable size body. The header is described in Section 2. The content of the body depends on the header opcode value (the body can in particular be empty for some opcode values). The list of allowed opcode is defined Section 2.3 and the details of each corresponding message is described Section 4.

The protocol distinguishes 2 types of frames: requests and responses. Requests are those frame sent by the clients to the server, response are the ones sent by the server. Note however that the protocol supports server pushes (events) so responses does not necessarily come right after a client request.

Note to client implementors: clients library should always assume that the body of a given frame may contain more data than what is described in this document. It will however always be safe to ignore the remaining of the frame body in such cases. The reason is that this may allow to sometimes extend the protocol with optional features without needing to change the protocol version.

2. Frame header

2.1. version

The version is a single byte that indicate both the direction of the message

(request or response) and the version of the protocol in use. The up-most bit of version is used to define the direction of the message: 0 indicates a request, 1 indicates a responses. This can be useful for protocol analyzers to distinguish the nature of the packet from the direction which it is moving. The rest of that byte is the protocol version (3 for the protocol defined in this document). In other words, for this version of the protocol, version will have one of:

- 0x03 Request frame for this protocol version
- 0x83 Response frame for this protocol version

Please note that the while every message ship with the version, only one version of messages is accepted on a given connection. In other words, the first message exchanged (STARTUP) sets the version for the connection for the lifetime of this connection.

This document describe the version 3 of the protocol. For the changes made since version 2, see Section 10.

2.2. flags

Flags applying to this frame. The flags have the following meaning (described by the mask that allow to select them):

- 0x01: Compression flag. If set, the frame body is compressed. The actual compression to use should have been set up beforehand through the Startup message (which thus cannot be compressed; Section 4.1.1).
- 0x02: Tracing flag. For a request frame, this indicate the client requires tracing of the request. Note that not all requests support tracing. Currently, only QUERY, PREPARE and EXECUTE queries support tracing. Other requests will simply ignore the tracing flag if set. If a request support tracing and the tracing flag was set, the response to this request will have the tracing flag set and contain tracing information.
If a response frame has the tracing flag set, its body contains a tracing ID. The tracing ID is a [uuid] and is the first thing in the frame body. The rest of the body will then be the usual body corresponding to the response opcode.

The rest of the flags is currently unused and ignored.

2.3. stream

A frame has a stream id (a [short] value). When sending request messages, this stream id must be set by the client to a non-negative value (negative stream id are reserved for streams initiated by the server; currently all EVENT messages (section 4.2.6) have a streamId of -1). If a client sends a request message with the stream id X, it is guaranteed that the stream id of the response to that message will be X.

This allow to deal with the asynchronous nature of the protocol. If a client sends multiple messages simultaneously (without waiting for responses), there is no guarantee on the order of the responses. For instance, if the client writes REQ_1, REQ_2, REQ_3 on the wire (in that order), the server might respond to REQ_3 (or REQ_2) first. Assigning different stream id to these 3 requests allows the client to distinguish to which request an received answer respond to. As there can only be 32768 different simultaneous streams, it is up to the client to reuse stream id.

Note that clients are free to use the protocol synchronously (i.e. wait for the response to REQ_N before sending REQ_N+1). In that case, the stream id can be safely set to 0. Clients should also feel free to use only a subset of the 32768 maximum possible stream ids if it is simpler for those implementation.

2.4. opcode

An integer byte that distinguish the actual message:

0x00	ERROR
0x01	STARTUP
0x02	READY
0x03	AUTHENTICATE
0x05	OPTIONS
0x06	SUPPORTED
0x07	QUERY
0x08	RESULT
0x09	PREPARE
0x0A	EXECUTE
0x0B	REGISTER
0x0C	EVENT
0x0D	BATCH
0x0E	AUTH_CHALLENGE
0x0F	AUTH_RESPONSE
0x10	AUTH_SUCCESS

Messages are described in Section 4.

(Note that there is no 0x04 message in this version of the protocol)

2.5. length

A 4 byte integer representing the length of the body of the frame (note: currently a frame is limited to 256MB in length).

3. Notations

To describe the layout of the frame body for the messages in Section 4, we define the following:

- [int] A 4 bytes signed integer
- [long] A 8 bytes signed integer
- [short] A 2 bytes unsigned integer
- [string] A [short] n, followed by n bytes representing an UTF-8 string.
- [long string] An [int] n, followed by n bytes representing an UTF-8 string.
- [uuid] A 16 bytes long uuid.
- [string list] A [short] n, followed by n [string].
- [bytes] A [int] n, followed by n bytes if n >= 0. If n < 0, no byte should follow and the value represented is `null`.
- [short bytes] A [short] n, followed by n bytes if n >= 0.

- [option] A pair of <id><value> where <id> is a [short] representing the option id and <value> depends on that option (and can be of size 0). The supported id (and the corresponding <value>) will be described when this is used.
- [option list] A [short] n, followed by n [option].
- [inet] An address (ip and port) to a node. It consists of one [byte] n, that represents the address size, followed by n [byte] representing the IP address (in practice n can only be either 4 (IPv4) or 16 (IPv6)), following by one [int] representing the port.
- [consistency] A consistency level specification. This is a [short] representing a consistency level with the following correspondance:
 - 0x0000 ANY
 - 0x0001 ONE
 - 0x0002 TWO
 - 0x0003 THREE
 - 0x0004 QUORUM
 - 0x0005 ALL
 - 0x0006 LOCAL_QUORUM
 - 0x0007 EACH_QUORUM
 - 0x0008 SERIAL
 - 0x0009 LOCAL_SERIAL
 - 0x000A LOCAL_ONE

- [string map] A [short] n, followed by n pair <k><v> where <k> and <v> are [string].
- [string multimap] A [short] n, followed by n pair <k><v> where <k> is a [string] and <v> is a [string list].

4. Messages

4.1. Requests

Note that outside of their normal responses (described below), all requests can get an ERROR message (Section 4.2.1) as response.

4.1.1. STARTUP

Initialize the connection. The server will respond by either a READY message (in which case the connection is ready for queries) or an AUTHENTICATE message (in which case credentials will need to be provided using AUTH_RESPONSE).

This must be the first message of the connection, except for OPTIONS that can be sent before to find out the options supported by the server. Once the connection has been initialized, a client should not send any more STARTUP message.

The body is a [string map] of options. Possible options are:

- "CQL_VERSION": the version of CQL to use. This option is mandatory and currently, the only version supported is "3.0.0". Note that this is different from the protocol version.
- "COMPRESSION": the compression algorithm to use for frames (See section 5). This is optional, if not specified no compression will be used.

4.1.2. AUTH_RESPONSE

Answers a server authentication challenge.

Authentication in the protocol is SASL based. The server sends authentication challenges (a bytes token) to which the client answer with this message. Those exchanges continue until the server accepts the authentication by sending a AUTH_SUCCESS message after a client AUTH_RESPONSE. It is however that client that initiate the exchange by sending an initial AUTH_RESPONSE in response to a server AUTHENTICATE request.

The body of this message is a single [bytes] token. The details of what this token contains (and when it can be null/empty, if ever) depends on the actual authenticator used.

The response to a AUTH_RESPONSE is either a follow-up AUTH_CHALLENGE message, an AUTH_SUCCESS message or an ERROR message.

4.1.3. OPTIONS

Asks the server to return what STARTUP options are supported. The body of an OPTIONS message should be empty and the server will respond with a SUPPORTED

message.

4.1.4. QUERY

Performs a CQL query. The body of the message must be:

<query><query_parameters>

where <query> is a [long string] representing the query and

<query_parameters> must be

<consistency><flags>[<n>[name_1]<value_1>...[name_n]<value_n>][<result_page_size>][<paging_state>][<serial_consistency>][<timestamp>]

where:

- <consistency> is the [consistency] level for the operation.
- <flags> is a [byte] whose bits define the options for this query and in particular influence what the remainder of the message contains. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given there mask:

0x01: Values. In that case, a [short] <n> followed by <n> [bytes] values are provided. Those value are used for bound variables in the query. Optionally, if the 0x40 flag is present, each value will be preceded by a [string] name, representing the name of the marker the value must be binded to. This is optional, and if not present, values will be binded by position.

0x02: Skip_metadata. If present, the Result Set returned as a response to that query (if any) will have the NO_METADATA flag (see Section 4.2.5.2).

0x04: Page_size. In that case, <result_page_size> is an [int] controlling the desired page size of the result (in CQL3 rows). See the section on paging (Section 8) for more details.

0x08: With_paging_state. If present, <paging_state> should be present. <paging_state> is a [bytes] value that should have been returned in a result set (Section 4.2.5.2). If provided, the query will be executed but starting from a given paging state. This also to continue paging on a different node from the one it has been started (See Section 8 for more details).

0x10: With serial consistency. If present, <serial_consistency> should be present. <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present, it defaults to SERIAL. This option will be ignored for anything else that a conditional update/insert.

0x20: With default timestamp. If present, <timestamp> should be present. <timestamp> is a [long] representing the default timestamp for the query in microseconds (negative values are discouraged but supported for backward compatibility reasons except for the smallest negative value (-2^63) that is forbidden). If provided, this will replace the server side assigned timestamp as default timestamp. Note that a timestamp in the query itself will still override

this timestamp. This is entirely optional.

0x40: With names for values. This only makes sense if the 0x01 flag is set and is ignored otherwise. If present, the values from the 0x01 flag will be preceded by a name (see above). Note that this is only useful for QUERY requests where named bind markers are used; for EXECUTE statements, since the names for the expected values was returned during preparation, a client can always provide values in the right order without any names and using this flag, while supported, is almost surely inefficient.

Note that the consistency is ignored by some queries (USE, CREATE, ALTER, TRUNCATE, ...).

The server will respond to a QUERY message with a RESULT message, the content of which depends on the query.

4.1.5. PREPARE

Prepare a query for later execution (through EXECUTE). The body consists of the CQL query to prepare as a [long string].

The server will respond with a RESULT message with a `prepared` kind (0x0004, see Section 4.2.5).

4.1.6. EXECUTE

Executes a prepared query. The body of the message must be:

<id><query_parameters>

where <id> is the prepared query ID. It's the [short bytes] returned as a response to a PREPARE message. As for <query_parameters>, it has the exact same definition than in QUERY (see Section 4.1.4).

The response from the server will be a RESULT message.

4.1.7. BATCH

Allows executing a list of queries (prepared or not) as a batch (note that only DML statements are accepted in a batch). The body of the message must be:

<type><n><query_1>...<query_n><consistency><flags>[<serial_consistency>][<timestamp>]

where:

- <type> is a [byte] indicating the type of batch to use:
 - If <type> == 0, the batch will be "logged". This is equivalent to a normal CQL3 batch statement.
 - If <type> == 1, the batch will be "unlogged".
 - If <type> == 2, the batch will be a "counter" batch (and non-counter

statements will be rejected).

- <flags> is a [byte] whose bits define the options for this query and in particular influence the remainder of the message contains. It is similar to the <flags> from QUERY and EXECUTE methods, except that the 4 rightmost bits must always be 0 as their corresponding option do not make sense for Batch. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given there mask:

0x10: With serial consistency. If present, <serial_consistency> should be present. <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present, it defaults to SERIAL. This option will be ignored for anything else that a conditional update/insert.

0x20: With default timestamp. If present, <timestamp> should be present. <timestamp> is a [long] representing the default timestamp for the query in microseconds. If provided, this will replace the server side assigned timestamp as default timestamp. Note that a timestamp in the query itself will still override this timestamp. This is entirely optional.

0x40: With names for values. If set, then all values for all <query_i> must be preceded by a [string] <name_i> that have the same meaning as in QUERY requests [IMPORTANT NOTE: this feature does not work and should not be used. It is specified in a way that makes it impossible for the server to implement. This will be fixed in a future version of the native protocol. See <https://issues.apache.org/jira/browse/CASSANDRA-10246> for more details].

- <n> is a [short] indicating the number of following queries.

- <query_1>...<query_n> are the queries to execute. A <query_i> must be of the form:

<kind><string_or_id><n>[<name_1><value_1>...<name_n><value_n>

where:

- <kind> is a [byte] indicating whether the following query is a prepared one or not. <kind> value must be either 0 or 1.

- <string_or_id> depends on the value of <kind>. If <kind> == 0, it should be a [long string] query string (as in QUERY, the query string might contain bind markers). Otherwise (that is, if <kind> == 1), it should be a [short bytes] representing a prepared query ID.

- <n> is a [short] indicating the number (possibly 0) of following values.

- <name_i> is the optional name of the following <value_i>. It must be present if and only if the 0x40 flag is provided for the batch.

- <value_i> is the [bytes] to use for bound variable i (of bound variable <name_i> if the 0x40 flag is used).

- <consistency> is the [consistency] level for the operation.

- <serial_consistency> is only present if the 0x10 flag is set. In that case, <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present will defaults to SERIAL. This option will be ignored for anything else that a conditional update/insert.

The server will respond with a RESULT message.

4.1.8. REGISTER

Register this connection to receive some type of events. The body of the message is a [string list] representing the event types to register to. See section 4.2.6 for the list of valid event types.

The response to a REGISTER message will be a READY message.

Please note that if a client driver maintains multiple connections to a Cassandra node and/or connections to multiple nodes, it is advised to dedicate a handful of connections to receive events, but to **not** register for events on all connections, as this would only result in receiving multiple times the same event messages, wasting bandwidth.

4.2. Responses

This section describes the content of the frame body for the different responses. Please note that to make room for future evolution, clients should support extra informations (that they should simply discard) to the one described in this document at the end of the frame body.

4.2.1. ERROR

Indicates an error processing a request. The body of the message will be an error code ([int]) followed by a [string] error message. Then, depending on the exception, more content may follow. The error codes are defined in Section 9, along with their additional content if any.

4.2.2. READY

Indicates that the server is ready to process queries. This message will be sent by the server either after a STARTUP message if no authentication is required, or after a successful CREDENTIALS message.

The body of a READY message is empty.

4.2.3. AUTHENTICATE

Indicates that the server require authentication, and which authentication mechanism to use.

The authentication is SASL based and thus consists on a number of server

challenges (AUTH_CHALLENGE, Section 4.2.7) followed by client responses (AUTH_RESPONSE, Section 4.1.2). The Initial exchange is however bootstrapped by an initial client response. The details of that exchange (including how much challenge-response pair are required) are specific to the authenticator in use. The exchange ends when the server sends an AUTH_SUCCESS message or an ERROR message.

This message will be sent following a STARTUP message if authentication is required and must be answered by a AUTH_RESPONSE message from the client.

The body consists of a single [string] indicating the full class name of the IAuthenticator in use.

4.2.4. SUPPORTED

Indicates which startup options are supported by the server. This message comes as a response to an OPTIONS message.

The body of a SUPPORTED message is a [string multimap]. This multimap gives for each of the supported STARTUP options, the list of supported values.

4.2.5. RESULT

The result to a query (QUERY, PREPARE, EXECUTE or BATCH messages).

The first element of the body of a RESULT message is an [int] representing the `kind` of result. The rest of the body depends on the kind. The kind can be one of:

- 0x0001 Void: for results carrying no information.
- 0x0002 Rows: for results to select queries, returning a set of rows.
- 0x0003 Set_keyspace: the result to a `use` query.
- 0x0004 Prepared: result to a PREPARE message.
- 0x0005 Schema_change: the result to a schema altering query.

The body for each kind (after the [int] kind) is defined below.

4.2.5.1. Void

The rest of the body for a Void result is empty. It indicates that a query was successful without providing more information.

4.2.5.2. Rows

Indicates a set of rows. The rest of body of a Rows result is:

<metadata><rows_count><rows_content>

where:

- <metadata> is composed of:

<flags><columns_count>[<paging_state>][<global_table_spec>?<col_spec_1>...<col_spec_n>]

where:

- <flags> is an [int]. The bits of <flags> provides information on the formatting of the remaining informations. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given there mask:

0x0001 Global_tables_spec: if set, only one table spec (keyspace and table name) is provided as <global_table_spec>. If not set, <global_table_spec> is not present.

0x0002 Has_more_pages: indicates whether this is not the last page of results and more should be retrieve. If set, the <paging_state> will be present. The <paging_state> is a [bytes] value that should be used in QUERY/EXECUTE to continue paging and retrieve the remained of the result for this query (See Section 8 for more details).

0x0004 No_metadata: if set, the <metadata> is only composed of these <flags>, the <column_count> and optionally the <paging_state> (depending on the Has_more_pages flage) but no other information (so no <global_table_spec> nor <col_spec_i>). This will only ever be the case if this was requested during the query (see QUERY and RESULT messages).

- <columns_count> is an [int] representing the number of columns selected by the query this result is of. It defines the number of <col_spec_i> elements in and the number of element for each row in <rows_content>.

- <global_table_spec> is present if the Global_tables_spec is set in <flags>. If present, it is composed of two [string] representing the (unique) keyspace name and table name the columns return are of.

- <col_spec_i> specifies the columns returned in the query. There is <column_count> such column specifications that are composed of:
(<ksname><tablename>)?<name><type>

The initial <ksname> and <tablename> are two [string] are only present if the Global_tables_spec flag is not set. The <column_name> is a [string] and <type> is an [option] that correspond to the description (what this description is depends a bit on the context: in results to selects, this will be either the user chosen alias or the selection used (often a colum name, but it can be a function call too). In results to a PREPARE, this will be either the name of the bind variable corresponding or the column name for the variable if it is "anonymous") and type of the corresponding result. The option for <type> is either a native type (see below), in which case the option has no value, or a 'custom' type, in which case the value is a [string] representing the full qualified class name of the type represented. Valid option ids are:

0x0000 Custom: the value is a [string], see above.

0x0001 Ascii

- 0x0002 Bigint
- 0x0003 Blob
- 0x0004 Boolean
- 0x0005 Counter
- 0x0006 Decimal
- 0x0007 Double
- 0x0008 Float
- 0x0009 Int
- 0x000B Timestamp
- 0x000C Uuid
- 0x000D Varchar
- 0x000E Varint
- 0x000F Timeuuid
- 0x0010 Inet
- 0x0020 List: the value is an [option], representing the type of the elements of the list.
- 0x0021 Map: the value is two [option], representing the types of the keys and values of the map
- 0x0022 Set: the value is an [option], representing the type of the elements of the set
- 0x0030 UDT: the value is <ks><udt_name><n><name_1><type_1>...<name_n><type_n> where:
 - <ks> is a [string] representing the keyspace name this UDT is part of.
 - <udt_name> is a [string] representing the UDT name.
 - <n> is a [short] representing the number of fields of the UDT, and thus the number of <name_i><type_i> pair following
 - <name_i> is a [string] representing the name of the i_th field of the UDT.
 - <type_i> is an [option] representing the type of the i_th field of the UDT.
- 0x0031 Tuple: the value is <n><type_1>...<type_n> where <n> is a [short] representing the number of value in the type, and <type_i> are [option] representing the type of the i_th component of the tuple

- <rows_count> is an [int] representing the number of rows present in this result. Those rows are serialized in the <rows_content> part.
- <rows_content> is composed of <row_1>...<row_m> where m is <rows_count>. Each <row_i> is composed of <value_1>...<value_n> where n is <columns_count> and where <value_j> is a [bytes] representing the value returned for the jth column of the ith row. In other words, <rows_content> is composed of (<rows_count> * <columns_count>) [bytes].

4.2.5.3. Set_keyspace

The result to a `use` query. The body (after the kind [int]) is a single [string] indicating the name of the keyspace that has been set.

4.2.5.4. Prepared

The result to a PREPARE message. The rest of the body of a Prepared result is:

<id><metadata><result_metadata>

where:

- <id> is [short bytes] representing the prepared query ID.
- <metadata> is defined exactly as for a Rows RESULT (See section 4.2.5.2; you can however assume that the Has_more_pages flag is always off) and is the specification for the variable bound in this prepare statement.
- <result_metadata> is defined exactly as <metadata> but correspond to the metadata for the resultSet that execute this query will yield. Note that <result_metadata> may be empty (have the No_metadata flag and 0 columns, See section 4.2.5.2) and will be for any query that is not a Select. There is in fact never a guarantee that this will non-empty so client should protect themselves accordingly. The presence of this information is an optimization that allows to later execute the statement that has been prepared without requesting the metadata (Skip_metadata flag in EXECUTE). Clients can safely discard this metadata if they do not want to take advantage of that optimization.

Note that prepared query ID return is global to the node on which the query has been prepared. It can be used on any connection to that node and this until the node is restarted (after which the query must be reprepared).

4.2.5.5. Schema_change

The result to a schema altering query (creation/update/drop of a keyspace/table/index). The body (after the kind [int]) is the same as the body for a "SCHEMA_CHANGE" event, so 3 strings:

<change_type><target><options>

Please refer to the section 4.2.6 below for the meaning of those fields.

Note that queries to create and drop an index are considered as change updating the table the index is on.

4.2.6. EVENT

And event pushed by the server. A client will only receive events for the type it has REGISTER to. The body of an EVENT message will start by a [string] representing the event type. The rest of the message depends on the event type. The valid event types are:

- "TOPOLOGY_CHANGE": events related to change in the cluster topology.

Currently, events are sent when new nodes are added to the cluster, and

when nodes are removed. The body of the message (after the event type) consists of a [string] and an [inet], corresponding respectively to the type of change ("NEW_NODE", "REMOVED_NODE", or "MOVED_NODE") followed by the address of the new/removed/moved node.

- "STATUS_CHANGE": events related to change of node status. Currently, up/down events are sent. The body of the message (after the event type) consists of a [string] and an [inet], corresponding respectively to the type of status change ("UP" or "DOWN") followed by the address of the concerned node.
- "SCHEMA_CHANGE": events related to schema change. After the event type, the rest of the message will be <change_type><target><options> where:
 - <change_type> is a [string] representing the type of changed involved. It will be one of "CREATED", "UPDATED" or "DROPPED".
 - <target> is a [string] that can be one of "KEYSPACE", "TABLE" or "TYPE" and describes what has been modified ("TYPE" stands for modifications related to user types).
 - <options> depends on the preceding <target>. If <target> is "KEYSPACE", then <options> will be a single [string] representing the keyspace changed. Otherwise, if <target> is "TABLE" or "TYPE", then <options> will be 2 [string]: the first one will be the keyspace containing the affected object, and the second one will be the name of said affected object (so either the table name or the user type name).

All EVENT message have a streamId of -1 (Section 2.3).

Please note that "NEW_NODE" and "UP" events are sent based on internal Gossip communication and as such may be sent a short delay before the binary protocol server on the newly up node is fully started. Clients are thus advise to wait a short time before trying to connect to the node (1 seconds should be enough), otherwise they may experience a connection refusal at first.

It is possible for the same event to be sent multiple times. Therefore, a client library should ignore the same event if it has already been notified of a change.

4.2.7. AUTH_CHALLENGE

A server authentication challenge (see AUTH_RESPONSE (Section 4.1.2) for more details).

The body of this message is a single [bytes] token. The details of what this token contains (and when it can be null/empty, if ever) depends on the actual authenticator used.

Clients are expected to answer the server challenge by an AUTH_RESPONSE message.

4.2.7. AUTH_SUCCESS

Indicate the success of the authentication phase. See Section 4.2.3 for more details.

The body of this message is a single [bytes] token holding final information from the server that the client may require to finish the authentication process. What that token contains and whether it can be null depends on the actual authenticator used.

5. Compression

Frame compression is supported by the protocol, but then only the frame body is compressed (the frame header should never be compressed).

Before being used, client and server must agree on a compression algorithm to use, which is done in the `STARTUP` message. As a consequence, a `STARTUP` message must never be compressed. However, once the `STARTUP` frame has been received by the server can be compressed (including the response to the `STARTUP` request). Frame do not have to be compressed however, even if compression has been agreed upon (a server may only compress frame above a certain size at its discretion). A frame body should be compressed if and only if the compressed flag (see Section 2.2) is set.

As of this version 2 of the protocol, the following compressions are available:

- lz4 (<https://code.google.com/p/lz4/>). In that, note that the 4 first bytes of the body will be the uncompressed length (followed by the compressed bytes).
- snappy (<https://code.google.com/p/snappy/>). This compression might not be available as it depends on a native lib (server-side) that might not be available on some installation.

6. Data Type Serialization Formats

This sections describes the serialization formats for all CQL data types supported by Cassandra through the native protocol. These serialization formats should be used by client drivers to encode values for `EXECUTE` messages. Cassandra will use these formats when returning values in `RESULT` messages.

All values are represented as [bytes] in `EXECUTE` and `RESULT` messages. The [bytes] format includes an int prefix denoting the length of the value. For that reason, the serialization formats described here will not include a length component.

For legacy compatibility reasons, note that most non-string types support "empty" values (i.e. a value with zero length). An empty value is distinct from NULL, which is encoded with a negative length.

As with the rest of the native protocol, all encodings are big-endian.

6.1. ascii

A sequence of bytes in the ASCII range [0, 127]. Bytes with values outside of this range will result in a validation error.

6.2 bigint

An eight-byte two's complement integer.

6.3 blob

Any sequence of bytes.

6.4 boolean

A single byte. A value of 0 denotes "false"; any other value denotes "true". (However, it is recommended that a value of 1 be used to represent "true".)

6.5 decimal

The decimal format represents an arbitrary-precision number. It contains an [int] "scale" component followed by a varint encoding (see section 6.17) of the unscaled value. The encoded value represents "<unscaled>E<-scale>". In other words, "<unscaled> * 10 ^ (-1 * <scale>)".

6.6 double

An eight-byte floating point number in the IEEE 754 binary64 format.

6.7 float

An four-byte floating point number in the IEEE 754 binary32 format.

6.8 inet

A 4 byte or 16 byte sequence denoting an IPv4 or IPv6 address, respectively.

6.9 int

A four-byte two's complement integer.

6.10 list

A [int] n indicating the number of elements in the list, followed by n elements. Each element is [bytes] representing the serialized value.

6.11 map

A [int] n indicating the number of key/value pairs in the map, followed by n entries. Each entry is composed of two [bytes] representing the key and value.

6.12 set

A [int] n indicating the number of elements in the set, followed by n elements. Each element is [bytes] representing the serialized value.

6.13 text

A sequence of bytes conforming to the UTF-8 specifications.

6.14 timestamp

An eight-byte two's complement integer representing a millisecond-precision offset from the unix epoch (00:00:00, January 1st, 1970). Negative values represent a negative offset from the epoch.

6.15 uuid

A 16 byte sequence representing any valid UUID as defined by RFC 4122.

6.16 varchar

An alias of the "text" type.

6.17 varint

A variable-length two's complement encoding of a signed integer.

The following examples may help implementors of this spec:

Value | Encoding

-----|-----

0 | 0x00

1 | 0x01

127 | 0x7F

128 | 0x0080

129 | 0x0081

-1 | 0xFF

-128 | 0x80

Note that positive numbers must use a most-significant byte with a value less than 0x80, because a most-significant bit of 1 indicates a negative value. Implementors should pad positive values that have a MSB \geq 0x80 with a leading 0x00 byte.

6.18 timeuuid

A 16 byte sequence representing a version 1 UUID as defined by RFC 4122.

6.19 tuple

A sequence of [bytes] values representing the items in a tuple. The encoding of each element depends on the data type for that position in the tuple. Null values may be represented by using length -1 for the [bytes] representation of an element.

Within a tuple, all data types should use the v3 protocol serialization format.

7. User Defined Types

This section describes the serialization format for User defined types (UDT), as described in section 4.2.5.2.

A UDT value is composed of successive [bytes] values, one for each field of the UDT value (in the order defined by the type). A UDT value will generally have one value for each field of the type it represents, but it is allowed to have less values than the type has fields.

Within a user-defined type value, all data types should use the v3 protocol serialization format.

8. Result paging

The protocol allows for paging the result of queries. For that, the QUERY and EXECUTE messages have a <result_page_size> value that indicate the desired page size in CQL3 rows.

If a positive value is provided for <result_page_size>, the result set of the RESULT message returned for the query will contain at most the <result_page_size> first rows of the query result. If that first page of result contains the full result set for the query, the RESULT message (of kind `Rows`) will have the Has_more_pages flag *not* set. However, if some results are not part of the first response, the Has_more_pages flag will be set and the result will contain a <paging_state> value. In that case, the <paging_state> value

should be used in a QUERY or EXECUTE message (that has the *same* query than the original one or the behavior is undefined) to retrieve the next page of results.

Only CQL3 queries that return a result set (RESULT message with a Rows `kind`) support paging. For other type of queries, the <result_page_size> value is ignored.

Note to client implementors:

- While <result_page_size> can be as low as 1, it will likely be detrimental to performance to pick a value too low. A value below 100 is probably too low for most use cases.
- Clients should not rely on the actual size of the result set returned to decide if there is more result to fetch or not. Instead, they should always check the Has_more_pages flag (unless they did not enable paging for the query obviously). Clients should also not assert that no result will have more than <result_page_size> results. While the current implementation always respect the exact value of <result_page_size>, we reserve ourselves the right to return slightly smaller or bigger pages in the future for performance reasons.

9. Error codes

The supported error codes are described below:

0x0000 Server error: something unexpected happened. This indicates a server-side bug.

0x000A Protocol error: some client message triggered a protocol violation (for instance a QUERY message is sent before a STARTUP one has been sent)

0x0100 Bad credentials: CREDENTIALS request failed because Cassandra did not accept the provided credentials.

0x1000 Unavailable exception. The rest of the ERROR message body will be <cl><required><alive>

where:

<cl> is the [consistency] level of the query having triggered the exception.

<required> is an [int] representing the number of node that should be alive to respect <cl>

<alive> is an [int] representing the number of replica that were known to be alive when the request has been processed (since an unavailable exception has been triggered, there will be <alive> <<required>)

0x1001 Overloaded: the request cannot be processed because the coordinator node is overloaded

0x1002 Is_bootstrapping: the request was a read request but the coordinator node is bootstrapping

0x1003 Truncate_error: error during a truncation error.

0x1100 Write_timeout: Timeout exception during a write request. The rest of the ERROR message body will be

<cl><received><blockfor><writeType>

where:

<cl> is the [consistency] level of the query having triggered the exception.

<received> is an [int] representing the number of nodes having acknowledged the request.

<blockfor> is an [int] representing the number of replica whose acknowledgement is required to achieve <cl>.

<writeType> is a [string] that describe the type of the write that timed out. The value of that string can be one of:

- "SIMPLE": the write was a non-batched non-counter write.
- "BATCH": the write was a (logged) batch write. If this type is received, it means the batch log has been successfully written (otherwise a "BATCH_LOG" type would have been send instead).
- "UNLOGGED_BATCH": the write was an unlogged batch. Not batch log write has been attempted.
- "COUNTER": the write was a counter write (batched or not).
- "BATCH_LOG": the timeout occurred during the write to the batch log when a (logged) batch write was requested.

0x1200 Read_timeout: Timeout exception during a read request. The rest of the ERROR message body will be

<cl><received><blockfor><data_present>

where:

<cl> is the [consistency] level of the query having triggered the exception.

<received> is an [int] representing the number of nodes having answered the request.

<blockfor> is an [int] representing the number of replica whose response is required to achieve <cl>. Please note that it is possible to have <received> >= <blockfor> if <data_present> is false. And also in the (unlikely) case were <cl> is achieved but the coordinator node timeout while waiting for read-repair acknowledgement.

<data_present> is a single byte. If its value is 0, it means the replica that was asked for data has not responded. Otherwise, the value is != 0.

0x2000 Syntax_error: The submitted query has a syntax error.

0x2100 Unauthorized: The logged user doesn't have the right to perform the query.

- 0x2200 Invalid: The query is syntactically correct but invalid.
- 0x2300 Config_error: The query is invalid because of some configuration issue
- 0x2400 Already_exists: The query attempted to create a keyspace or a table that was already existing. The rest of the ERROR message body will be <ks><table> where:
- <ks> is a [string] representing either the keyspace that already exists, or the keyspace in which the table that already exists is.
 - <table> is a [string] representing the name of the table that already exists. If the query was attempting to create a keyspace, <table> will be present but will be the empty string.
- 0x2500 Unprepared: Can be thrown while a prepared statement tries to be executed if the provide prepared statement ID is not known by this host. The rest of the ERROR message body will be [short bytes] representing the unknown ID.

10. Changes from v2

- * stream id is now 2 bytes long (a [short] value), so the header is now 1 byte longer (9 bytes total).
- * BATCH messages now have <flags> (like QUERY and EXECUTE) and a corresponding optional <serial_consistency> parameters (see Section 4.1.7).
- * User Defined Types and tuple types have to added to ResultSet metadata (see 4.2.5.2) and a new section on the serialization format of UDT and tuple values has been added to the documentation (Section 7).
- * The serialization format for collection has changed (both the collection size and the length of each argument is now 4 bytes long). See Section 6.
- * QUERY, EXECUTE and BATCH messages can now optionally provide the default timestamp for the query. As this feature is optionally enabled by clients, implementing it is at the discretion of the client.
- * QUERY and EXECUTE messages can now optionally provide the names for the values of the query. As this feature is optionally enabled by clients, implementing it is at the discretion of the client (Note that while the BATCH message has a flag for this, it actually doesn't work for BATCH, see Section 4.1.7 for details).
- * The format of "Schema_change" results (Section 4.2.5.5) and "SCHEMA_CHANGE" events (Section 4.2.6) has been modified, and now includes changes related to user types.

Found in path(s):

* /opt/cola/permits/1337324070_1654191441.387334/0/native-protocol-1-5-1-1-jar/native_protocol_v3.spec

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

DSE BINARY PROTOCOL v2

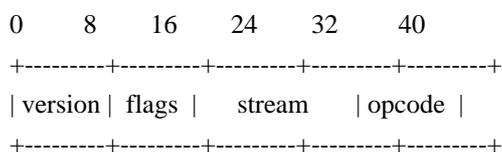
Table of Contents

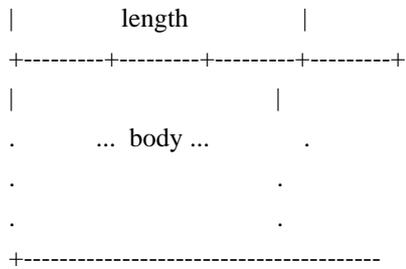
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1. Overview

The CQL binary protocol is a frame based protocol. Frames are defined as:





The protocol is big-endian (network byte order).

Each frame contains a fixed size header (9 bytes) followed by a variable size body. The header is described in Section 2. The content of the body depends on the header opcode value (the body can in particular be empty for some opcode values). The list of allowed opcodes is defined in Section 2.4 and the details of each corresponding message are described Section 4.

The protocol distinguishes two types of frames: requests and responses. Requests are those frames sent by the client to the server. Responses are those frames sent by the server to the client. Note, however, that the protocol supports server pushes (events) so a response does not necessarily come right after a client request.

Note to client implementors: client libraries should always assume that the body of a given frame may contain more data than what is described in this document. It will however always be safe to ignore the remainder of the frame body in such cases. The reason is that this may enable extending the protocol with optional features without needing to change the protocol version.

2. Frame header

2.1. version

The version is a single byte that indicates both the direction of the message (request or response) and the version of the protocol in use. The most significant bit of version is used to define the direction of the message: 0 indicates a request, 1 indicates a response. This can be useful for protocol analyzers to distinguish the nature of the packet from the direction in which it is moving.

The next most significant bit must be set to one to indicate that this is a dse private version and not a public open source version.

The rest of that byte is the dse protocol version (1 for the protocol defined in this document). In other words, for this version of the protocol, version will be one of:

- 0x41 (0100 0001) Request frame for this dse protocol version
- 0xC1 (1100 0001) Response frame for this dse protocol version

Please note that while every message ships with the version, only one version of messages is accepted on a given connection. In other words, the first message exchanged (STARTUP) sets the version for the connection for the lifetime of this connection. The single exception to this behavior is when a startup message is sent with a version that is higher than the current server version. In this case, the server will respond with its current version.

This document describes version 1 of the dse protocol. For the changes made since version 5 of the public protocol, see Section 10.

2.2. flags

Flags applying to this frame. The flags have the following meaning (described by the mask that allows selecting them):

- 0x01: Compression flag. If set, the frame body is compressed. The actual compression to use should have been set up beforehand through the Startup message (which thus cannot be compressed; Section 4.1.1).
- 0x02: Tracing flag. For a request frame, this indicates the client requires tracing of the request. Note that only QUERY, PREPARE and EXECUTE queries support tracing. Other requests will simply ignore the tracing flag if set. If a request supports tracing and the tracing flag is set, the response to this request will have the tracing flag set and contain tracing information.
If a response frame has the tracing flag set, its body contains a tracing ID. The tracing ID is a [uuid] and is the first thing in the frame body. The rest of the body will then be the usual body corresponding to the response opcode.
- 0x04: Custom payload flag. For a request or response frame, this indicates that a generic key-value custom payload for a custom QueryHandler implementation is present in the frame. Such a custom payload is simply ignored by the default QueryHandler implementation.
Currently, only QUERY, PREPARE, EXECUTE and BATCH requests support payload.
Type of custom payload is [bytes map] (see below).
- 0x08: Warning flag. The response contains warnings which were generated by the server to go along with this response.
If a response frame has the warning flag set, its body will contain the text of the warnings. The warnings are a [string list] and will be the first value in the frame body if the tracing flag is not set, or directly after the tracing ID if it is.
- 0x10: Use beta flag. Indicates that the client opts in to use protocol version that is currently in beta. Server will respond with ERROR if protocol version is marked as beta on server and client does not provide this flag.

The rest of flags is currently unused and ignored.

2.3. stream

A frame has a stream id (a [short] value). When sending request messages, this stream id must be set by the client to a non-negative value (negative stream id are reserved for streams initiated by the server; currently all EVENT messages (section 4.2.6) have a streamId of -1). If a client sends a request message with the stream id X, it is guaranteed that the stream id of the response to that message will be X.

This helps to enable the asynchronous nature of the protocol. If a client sends multiple messages simultaneously (without waiting for responses), there is no guarantee on the order of the responses. For instance, if the client writes REQ_1, REQ_2, REQ_3 on the wire (in that order), the server might respond to REQ_3 (or REQ_2) first. Assigning different stream ids to these 3 requests allows the client to distinguish to which request a received answer responds to. As there can only be 32768 different simultaneous streams, it is up to the client to reuse stream id.

Note that clients are free to use the protocol synchronously (i.e. wait for the response to REQ_N before sending REQ_N+1). In that case, the stream id can be safely set to 0. Clients should also feel free to use only a subset of the 32768 maximum possible stream ids if it is simpler for its implementation.

2.4. opcode

An integer byte that distinguishes the actual message:

0x00	ERROR
0x01	STARTUP
0x02	READY
0x03	AUTHENTICATE
0x05	OPTIONS
0x06	SUPPORTED
0x07	QUERY
0x08	RESULT
0x09	PREPARE
0x0A	EXECUTE
0x0B	REGISTER
0x0C	EVENT
0x0D	BATCH
0x0E	AUTH_CHALLENGE
0x0F	AUTH_RESPONSE
0x10	AUTH_SUCCESS
0xFF	REVISE_REQUEST

Messages are described in Section 4.

(Note that there is no 0x04 message in this version of the protocol)

2.5. length

A 4 byte integer representing the length of the body of the frame (note: currently a frame is limited to 256MB in length).

3. Notations

To describe the layout of the frame body for the messages in Section 4, we define the following:

- [int] A 4 bytes integer
- [long] A 8 bytes integer
- [byte] A 1 byte unsigned integer
- [short] A 2 bytes unsigned integer
- [string] A [short] n, followed by n bytes representing an UTF-8 string.
- [long string] An [int] n, followed by n bytes representing an UTF-8 string.
- [uuid] A 16 bytes long uuid.
- [string list] A [short] n, followed by n [string].
- [bytes] A [int] n, followed by n bytes if $n \geq 0$. If $n < 0$, no byte should follow and the value represented is ``null``.
- [value] A [int] n, followed by n bytes if $n \geq 0$.
If $n == -1$ no byte should follow and the value represented is ``null``.
If $n == -2$ no byte should follow and the value represented is ``not set`` not resulting in any change to the existing value.
 $n < -2$ is an invalid value and results in an error.
- [short bytes] A [short] n, followed by n bytes if $n \geq 0$.

- [unsigned vint] An unsigned variable length integer. A vint is encoded with the most significant byte (MSB) first. The most significant byte will contains the information about how many extra bytes need to be read as well as the most significant bits of the integer. The number of extra bytes to read is encoded as 1 bits on the left side. For example, if we need to read 2 more bytes the first byte will start with 110 (e.g. 256 000 will be encoded on 3 bytes as [110]00011 11101000 00000000) If the encoded integer is 8 bytes long the vint will be encoded on 9 bytes and the first byte will be: 11111111

- [vint] A signed variable length integer. This is encoded using zig-zag encoding and then sent like an [unsigned vint]. Zig-zag encoding converts numbers as follows:
 $0 = 0, -1 = 1, 1 = 2, -2 = 3, 2 = 4, -3 = 5, 3 = 6$ and so forth.
The purpose is to send small negative values as small unsigned values, so that we save bytes on the wire.

To encode a value n use $(n \gg 31) \wedge (n \ll 1)$ for 32 bit values, and $(n \gg 63) \wedge (n \ll 1)$ for 64 bit values where \wedge is the xor operation, \ll is the left shift operation and \gg is the arithmetic right shift operation (highest-order bit is replicated).
Decode with $(n \gg 1) \wedge -(n \& 1)$.

[option] A pair of <id><value> where <id> is a [short] representing the option id and <value> depends on that option (and can be of size 0). The supported id (and the corresponding <value>) will be described when this is used.

[option list] A [short] n, followed by n [option].

[inet] An address (ip and port) to a node. It consists of one [byte] n, that represents the address size, followed by n [byte] representing the IP address (in practice n can only be either 4 (IPv4) or 16 (IPv6)), following by one [int] representing the port.

[inetaddr] An IP address (without a port) to a node. It consists of one [byte] n, that represents the address size, followed by n [byte] representing the IP address.

[consistency] A consistency level specification. This is a [short] representing a consistency level with the following correspondance:

0x0000	ANY
0x0001	ONE
0x0002	TWO
0x0003	THREE
0x0004	QUORUM
0x0005	ALL
0x0006	LOCAL_QUORUM
0x0007	EACH_QUORUM
0x0008	SERIAL
0x0009	LOCAL_SERIAL
0x000A	LOCAL_ONE

[string map] A [short] n, followed by n pair <k><v> where <k> and <v> are [string].

[string multimap] A [short] n, followed by n pair <k><v> where <k> is a [string] and <v> is a [string list].

[bytes map] A [short] n, followed by n pair <k><v> where <k> is a [string] and <v> is a [bytes].

4. Messages

4.1. Requests

Note that outside of their normal responses (described below), all requests can get an ERROR message (Section 4.2.1) as response.

4.1.1. STARTUP

Initialize the connection. The server will respond by either a READY message (in which case the connection is ready for queries) or an AUTHENTICATE message

(in which case credentials will need to be provided using AUTH_RESPONSE).

This must be the first message of the connection, except for OPTIONS that can be sent before to find out the options supported by the server. Once the connection has been initialized, a client should not send any more STARTUP messages.

The body is a [string map] of options. Possible options are:

- "CQL_VERSION": the version of CQL to use. This option is mandatory and currently the only version supported is "3.0.0". Note that this is different from the protocol version.
- "COMPRESSION": the compression algorithm to use for frames (See section 5). This is optional; if not specified no compression will be used.
- "CLIENT_ID": string representation of the client instance. Recommended is a ID unique per runtime instance (e.g. DataStax Java Driver's Cluster instance), generated by the driver.
- "APPLICATION_NAME": optional, name of the application, should include the vendor name. For example "DataStax Studio"
- "APPLICATION_VERSION": optional, version of the application.
- "DRIVER_NAME": product name of the driver implementation. For example: 'DataStax Java Driver'.
- "DRIVER_VERSION": version of the driver implementation, typically a semantic version string.

Strictly speaking, the parameters "CLIENT_ID", "APPLICATION_NAME", "APPLICATION_VERSION", "APPLICATION_INSTANCE", "DRIVER_NAME" and "DRIVER_VERSION" are not restricted to this protocol version but can also be passed using older protocol versions. It depends on the DSE version whether and how this information is used or is accessible.

4.1.2. AUTH_RESPONSE

Answers a server authentication challenge.

Authentication in the protocol is SASL based. The server sends authentication challenges (a bytes token) to which the client answers with this message. Those exchanges continue until the server accepts the authentication by sending a AUTH_SUCCESS message after a client AUTH_RESPONSE. Note that the exchange begins with the client sending an initial AUTH_RESPONSE in response to a server AUTHENTICATE request.

The body of this message is a single [bytes] token. The details of what this token contains (and when it can be null/empty, if ever) depends on the actual authenticator used.

The response to a AUTH_RESPONSE is either a follow-up AUTH_CHALLENGE message, an AUTH_SUCCESS message or an ERROR message.

4.1.3. OPTIONS

Asks the server to return which STARTUP options are supported. The body of an OPTIONS message should be empty and the server will respond with a SUPPORTED message.

4.1.4. QUERY

Performs a CQL query. The body of the message must be:

<query><query_parameters>

where <query> is a [long string] representing the query and

<query_parameters> must be

<consistency><flags>[<n>[name_1]<value_1>...[name_n]<value_n>][<result_page_size>][<paging_state>]
[<serial_consistency>][<timestamp>][<keyspace>][<continuous_paging_options>]

where:

- <consistency> is the [consistency] level for the operation.
- <flags> is a [int] whose bits define the options for this query and in particular influence what the remainder of the message contains. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:

0x00000001: Values. If set, a [short] <n> followed by <n> [value] values are provided. Those values are used for bound variables in the query. Optionally, if the 0x40 flag is present, each value will be preceded by a [string] name, representing the name of the marker the value must be bound to.

0x00000002: Skip_metadata. If set, the Result Set returned as a response to the query (if any) will have the NO_METADATA flag (see Section 4.2.5.2).

0x00000004: Page_size. If set, <result_page_size> is a positive [int] controlling the desired page size of the result in CQL3 rows or in bytes, if Page_size_bytes is set.

See the section on paging (Section 8) for more details.

0x00000008: With_paging_state. If set, <paging_state> should be present. <paging_state> is a [bytes] value that should have been returned in a result set (Section 4.2.5.2). The query will be executed but starting from a given paging state. An error will be returned if the paging_state is present but no page_size has been specified. The paging state can also be used to continue paging on a different node than the one where it started (See Section 8 for more details).

0x00000010: With_serial_consistency. If set, <serial_consistency> should be present. <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present, it defaults to SERIAL. This option will be ignored for anything else other than a

conditional update/insert.

0x00000020: With default timestamp. If set, <timestamp> should be present.

<timestamp> is a [long] representing the default timestamp for the query in microseconds (negative values are forbidden). This will replace the server side assigned timestamp as default timestamp.

Note that a timestamp in the query itself will still override this timestamp. This is entirely optional.

0x00000040: With names for values. This only makes sense if the 0x01 flag is set and is ignored otherwise. If present, the values from the 0x01 flag will be preceded by a name (see above). Note that this is only useful for QUERY requests where named bind markers are used; for EXECUTE statements, since the names for the expected values was returned during preparation, a client can always provide values in the right order without any names and using this flag, while supported, is almost surely inefficient.

0x00000080: With keyspace. If set, <keyspace> must be present. <keyspace> is a [string] indicating the keyspace that the query should be executed in. It supercedes the keyspace that the connection is bound to, if any.

0x40000000: Page_size_bytes. If set, <result_page_size> is expressed in bytes. The server will try to return a number of CQL rows whose total size is as close as possible to the requested page size, without splitting any CQL row however. This functionality is currently only supported with continuous paging, setting this flag without setting the continuous paging flag, will result in an error.

0x80000000: With continuous paging. If set, <continuous_paging_options> should be present.

This structure contains the following:

- <max_num_pages>, an [int] indicating the maximum number of pages that the server will send to the client in total, set this to zero to indicate no limit.
- <pages_per_second>, an [int] indicating the maximum number of pages per second, set this to zero to indicate no limit.
- <next_pages>, an [int] indicating the number of pages that the client is ready to receive right now. The server will not send more pages than this number, until a REVISE_UPDATE is received with a revision of type backpressure, see section 4.1.9. Set this parameter to zero to indicate no limit. In this case the server will send as many pages as it is able to send, up to <max_num_pages> and at the rate specified by <pages_per_second>.

When continuous paging is enabled, the query results will be pushed to the client asynchronously and according to the paging options in the request message, without the client having to request each single page. Each response message will have the same stream id as the initial request.

Continuous paging can be interrupted by the client at any time via a REVISE_REQUEST with a revision of type cancel, see section 4.1.9.

Note that the consistency is ignored by some queries (USE, CREATE, ALTER, TRUNCATE, ...).

The server will respond to a QUERY message with a RESULT message, the content of which depends on the query.

4.1.5. PREPARE

Prepare a query for later execution (through EXECUTE). The body of the message must be:

<query><flags>[<keyspace>]

where:

- <query> is a [long string] representing the CQL query.
- <flags> is a [int] whose bits define the options for this statement and in particular influence what the remainder of the message contains.

A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:

- 0x01: With keyspace. If set, <keyspace> must be present. <keyspace> is a [string] indicating the keyspace that the query should be executed in. It supercedes the keyspace that the connection is bound to, if any.

The server will respond with a RESULT message with a `prepared` kind (0x0004, see Section 4.2.5).

4.1.6. EXECUTE

Executes a prepared query. The body of the message must be:

<id><result_metadata_id><query_parameters>

where

- <id> is the prepared query ID. It's the [short bytes] returned as a response to a PREPARE message. As for <query_parameters>, it has the exact same definition as in QUERY (see Section 4.1.4).
- <result_metadata_id> is the ID of the resultset metadata that was sent along with response to PREPARE message. If a RESULT/Rows message reports changed resultset metadata with the Metadata_changed flag, the reported new resultset metadata must be used in subsequent executions.

4.1.7. BATCH

Allows executing a list of queries (prepared or not) as a batch (note that only DML statements are accepted in a batch). The body of the message must be:

<type><n><query_1>...<query_n><consistency><flags>[<serial_consistency>][<timestamp>][<keyspace>]

where:

- <type> is a [byte] indicating the type of batch to use:
 - If <type> == 0, the batch will be "logged". This is equivalent to a normal CQL3 batch statement.
 - If <type> == 1, the batch will be "unlogged".
 - If <type> == 2, the batch will be a "counter" batch (and non-counter statements will be rejected).
- <flags> is a [int] whose bits define the options for this query and in particular influence what the remainder of the message contains. It is similar to the <flags> from QUERY and EXECUTE methods, except that the 4 rightmost bits must always be 0 as their corresponding options do not make sense for Batch. A flag is set if the bit corresponding to its `mask` is set. Supported

flags are, given their mask:

0x10: With serial consistency. If set, <serial_consistency> should be present. <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present, it defaults to SERIAL. This option will be ignored for anything else other than a conditional update/insert.

0x20: With default timestamp. If set, <timestamp> should be present. <timestamp> is a [long] representing the default timestamp for the query in microseconds. This will replace the server side assigned timestamp as default timestamp. Note that a timestamp in the query itself will still override this timestamp. This is entirely optional.

0x40: With names for values. If set, then all values for all <query_i> must be preceded by a [string] <name_i> that have the same meaning as in QUERY requests [IMPORTANT NOTE: this feature does not work and should not be used. It is specified in a way that makes it impossible for the server to implement. This will be fixed in a future version of the native protocol. See <https://issues.apache.org/jira/browse/CASSANDRA-10246> for more details].

0x80: With keyspace. If set, <keyspace> must be present. <keyspace> is a [string] indicating the keyspace that the query should be executed in. It supercedes the keyspace that the connection is bound to, if any.

- <n> is a [short] indicating the number of following queries.
- <query_1>...<query_n> are the queries to execute. A <query_i> must be of the form:
 <kind><string_or_id><n><name_1><value_1>...<name_n><value_n>
- where:
 - <kind> is a [byte] indicating whether the following query is a prepared one or not. <kind> value must be either 0 or 1.
 - <string_or_id> depends on the value of <kind>. If <kind> == 0, it should be a [long string] query string (as in QUERY, the query string might contain bind markers). Otherwise (that is, if <kind> == 1), it should be a [short bytes] representing a prepared query ID.
 - <n> is a [short] indicating the number (possibly 0) of following values.
 - <name_i> is the optional name of the following <value_i>. It must be present if and only if the 0x40 flag is provided for the batch.
 - <value_i> is the [value] to use for bound variable i (of bound variable <name_i> if the 0x40 flag is used).
- <consistency> is the [consistency] level for the operation.
- <serial_consistency> is only present if the 0x10 flag is set. In that case, <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present will defaults to SERIAL. This option will be ignored for anything else other than a conditional update/insert.

The server will respond with a RESULT message.

4.1.8. REGISTER

Register this connection to receive some types of events. The body of the message is a [string list] representing the event types to register for. See section 4.2.6 for the list of valid event types.

The response to a REGISTER message will be a READY message.

Please note that if a client driver maintains multiple connections to a Cassandra node and/or connections to multiple nodes, it is advised to dedicate a handful of connections to receive events, but to **not** register for events on all connections, as this would only result in receiving multiple times the same event messages, wasting bandwidth.

4.1.9. REVISE_REQUEST

Revise a previous request, typically a long running request such as continuous paging.

The body of the message is:

- an [int] identifying the revision type:
 - 0x00000001 to cancel a continuous paging session, see section 4.1.4
 - 0x00000002 to request more pages for a continuous paging session with next_pages > 0, see section 4.1.4
- an [int] equal to the stream id of the initial request message.
- Optional parameters specific to the revision type:
 - for revision type 2, then [next_pages] as described in section 4.1.4

The server will reply with a RESULT of type ROWS (section 4.2.5.2), containing a single row with a single boolean value, which is set to:

- true if the update succeeded,
- false if the initial request was not found or is no longer running.

If the initial request is found but the update cannot be carried out, then an error is returned instead.

4.2. Responses

This section describes the content of the frame body for the different responses. Please note that to make room for future evolution, clients should support extra informations (that they should simply discard) to the one described in this document at the end of the frame body.

4.2.1. ERROR

Indicates an error processing a request. The body of the message will be an error code ([int]) followed by a [string] error message. Then, depending on the exception, more content may follow. The error codes are defined in Section 9, along with their additional content if any.

4.2.2. READY

Indicates that the server is ready to process queries. This message will be sent by the server either after a `STARTUP` message if no authentication is required (if authentication is required, the server indicates readiness by sending a `AUTH_RESPONSE` message).

The body of a `READY` message is empty.

4.2.3. AUTHENTICATE

Indicates that the server requires authentication, and which authentication mechanism to use.

The authentication is SASL based and thus consists of a number of server challenges (`AUTH_CHALLENGE`, Section 4.2.7) followed by client responses (`AUTH_RESPONSE`, Section 4.1.2). The initial exchange is however bootstrapped by an initial client response. The details of that exchange (including how many challenge-response pairs are required) are specific to the authenticator in use. The exchange ends when the server sends an `AUTH_SUCCESS` message or an `ERROR` message.

This message will be sent following a `STARTUP` message if authentication is required and must be answered by a `AUTH_RESPONSE` message from the client.

The body consists of a single [string] indicating the full class name of the `IAAuthenticator` in use.

4.2.4. SUPPORTED

Indicates which startup options are supported by the server. This message comes as a response to an `OPTIONS` message.

The body of a `SUPPORTED` message is a [string multimap]. This multimap gives for each of the supported `STARTUP` options, the list of supported values. It also includes:

- "`PROTOCOL_VERSIONS`": the list of native protocol versions that are supported, encoded as the version number followed by a slash and the version description. For example: `3/v3`, `4/v4`, `5/v5-beta`. If a version is in beta, it will have the word "beta" in its description.

4.2.5. RESULT

The result to a query (`QUERY`, `PREPARE`, `EXECUTE` or `BATCH` messages).

The first element of the body of a RESULT message is an [int] representing the `kind` of result. The rest of the body depends on the kind. The kind can be one of:

- 0x0001 Void: for results carrying no information.
- 0x0002 Rows: for results to select queries, returning a set of rows.
- 0x0003 Set_keyspace: the result to a `use` query.
- 0x0004 Prepared: result to a PREPARE message.
- 0x0005 Schema_change: the result to a schema altering query.

The body for each kind (after the [int] kind) is defined below.

4.2.5.1. Void

The rest of the body for a Void result is empty. It indicates that a query was successful without providing more information.

4.2.5.2. Rows

Indicates a set of rows. The rest of the body of a Rows result is:

<metadata><rows_count><rows_content>

where:

- <metadata> is composed of:

<flags><columns_count>[<paging_state>][<new_metadata_id>][<continuous_page_no>][<global_table_spec>?<col_spec_1>...<col_spec_n>]

where:

- <flags> is an [int]. The bits of <flags> provides information on the formatting of the remaining information. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:

0x00000001 Global_tables_spec: if set, only one table spec (keyspace and table name) is provided as <global_table_spec>. If not set, <global_table_spec> is not present.

0x00000002 Has_more_pages: indicates whether this is not the last page of results and more should be retrieved. If set, the <paging_state> will be present. The <paging_state> is a [bytes] value that should be used in QUERY/EXECUTE to continue paging and retrieve the remainder of the result for this query (See Section 8 for more details).

0x00000004 No_metadata: if set, the <metadata> is only composed of these <flags>, the <column_count> and optionally the <paging_state> and <continuous_page_no> (depending on the corresponding flags) but no other information (so no <global_table_spec> nor <col_spec_i>).

This will only ever be the case if this was requested during the query (see QUERY and RESULT messages).

0x00000008 Metadata_changed: if set, the No_metadata flag has to be unset

and <new_metadata_id> has to be supplied. This flag is to be used to avoid a roundtrip in case of metadata changes for queries that requested metadata to be skipped.

0x40000000 continuous paging: if set, this page is part of a continuous paging session, as requested by the client. <continuous_page_no> will be present, this is an [int] that identifies the sequential number of this page in the session, and the last_continuous_page flag below will be set for the final page.

0x80000000 Last_continuous_page: indicates that this is the last continuous page that will be sent in the continuous paging session. This flag can only be set when the continuous paging flag is also set. Note that this may not necessarily be the last page of the query results, for this it is necessary to look at Has_more_pages (this could happen if the client only requested the first N pages in the continuous paging session, or if it sent a CANCEL message).

- <columns_count> is an [int] representing the number of columns selected by the query that produced this result. It defines the number of <col_spec_i> elements in and the number of elements for each row in <rows_content>.
- <new_metadata_id> is [short bytes] representing the new, changed resultset metadata. The new metadata ID must also be used in subsequent executions of the corresponding prepared statement, if any.
- <global_table_spec> is present if the Global_tables_spec is set in <flags>. It is composed of two [string] representing the (unique) keyspace name and table name the columns belong to.
- <col_spec_i> specifies the columns returned in the query. There are <column_count> such column specifications that are composed of:
(<ksname><tablename>)?<name><type>

The initial <ksname> and <tablename> are two [string] and are only present if the Global_tables_spec flag is not set. The <column_name> is a [string] and <type> is an [option] that corresponds to the description (what this description is depends a bit on the context: in results to selects, this will be either the user chosen alias or the selection used (often a column name, but it can be a function call too). In results to a PREPARE, this will be either the name of the corresponding bind variable or the column name for the variable if it is "anonymous") and type of the corresponding result. The option for <type> is either a native type (see below), in which case the option has no value, or a 'custom' type, in which case the value is a [string] representing the fully qualified class name of the type represented. Valid option ids are:

- 0x0000 Custom: the value is a [string], see above.
- 0x0001 Ascii
- 0x0002 Bigint
- 0x0003 Blob
- 0x0004 Boolean
- 0x0005 Counter
- 0x0006 Decimal
- 0x0007 Double

- 0x0008 Float
- 0x0009 Int
- 0x000B Timestamp
- 0x000C Uuid
- 0x000D Varchar
- 0x000E Varint
- 0x000F Timeuuid
- 0x0010 Inet
- 0x0011 Date
- 0x0012 Time
- 0x0013 Smallint
- 0x0014 Tinyint
- 0x0015 Duration
- 0x0020 List: the value is an [option], representing the type of the elements of the list.
- 0x0021 Map: the value is two [option], representing the types of the keys and values of the map
- 0x0022 Set: the value is an [option], representing the type of the elements of the set
- 0x0030 UDT: the value is <ks><udt_name><n><name_1><type_1>...<name_n><type_n> where:
 - <ks> is a [string] representing the keyspace name this UDT is part of.
 - <udt_name> is a [string] representing the UDT name.
 - <n> is a [short] representing the number of fields of the UDT, and thus the number of <name_i><type_i> pairs following
 - <name_i> is a [string] representing the name of the i_th field of the UDT.
 - <type_i> is an [option] representing the type of the i_th field of the UDT.
- 0x0031 Tuple: the value is <n><type_1>...<type_n> where <n> is a [short] representing the number of values in the type, and <type_i> are [option] representing the type of the i_th component of the tuple

- <rows_count> is an [int] representing the number of rows present in this result. Those rows are serialized in the <rows_content> part.
- <rows_content> is composed of <row_1>...<row_m> where m is <rows_count>. Each <row_i> is composed of <value_1>...<value_n> where n is <columns_count> and where <value_j> is a [bytes] representing the value returned for the jth column of the ith row. In other words, <rows_content> is composed of (<rows_count> * <columns_count>) [bytes].

4.2.5.3. Set_keyspace

The result to a `use` query. The body (after the kind [int]) is a single

[string] indicating the name of the keyspace that has been set.

4.2.5.4. Prepared

The result to a PREPARE message. The body of a Prepared result is:

<id><result_metadata_id><metadata><result_metadata>

where:

- <id> is [short bytes] representing the prepared query ID.
- <result_metadata_id> is [short bytes] representing the resultset metadata ID.
- <metadata> is composed of:

<flags><columns_count><pk_count>[<pk_index_1>...<pk_index_n>][<global_table_spec>?<col_spec_1>...<col_spec_n>]

where:

- <flags> is an [int]. The bits of <flags> provides information on the formatting of the remaining information. A flag is set if the bit corresponding to its `mask` is set. Supported masks and their flags are:
 - 0x0001 Global_tables_spec: if set, only one table spec (keyspace and table name) is provided as <global_table_spec>. If not set, <global_table_spec> is not present.
- <columns_count> is an [int] representing the number of bind markers in the prepared statement. It defines the number of <col_spec_i> elements.
- <pk_count> is an [int] representing the number of <pk_index_i> elements to follow. If this value is zero, at least one of the partition key columns in the table that the statement acts on did not have a corresponding bind marker (or the bind marker was wrapped in a function call).
- <pk_index_i> is a short that represents the index of the bind marker that corresponds to the partition key column in position i. For example, a <pk_index> sequence of [2, 0, 1] indicates that the table has three partition key columns; the full partition key can be constructed by creating a composite of the values for the bind markers at index 2, at index 0, and at index 1. This allows implementations with token-aware routing to correctly construct the partition key without needing to inspect table metadata.
- <global_table_spec> is present if the Global_tables_spec is set in <flags>. If present, it is composed of two [string]s. The first [string] is the name of the keyspace that the statement acts on. The second [string] is the name of the table that the columns represented by the bind markers belong to.
- <col_spec_i> specifies the bind markers in the prepared statement. There are <column_count> such column specifications, each with the following format:
 - (<ksname><tablename>)?<name><type>The initial <ksname> and <tablename> are two [string] that are only

present if the `Global_tables_spec` flag is not set. The `<name>` field is a [string] that holds the name of the bind marker (if named), or the name of the column, field, or expression that the bind marker corresponds to (if the bind marker is "anonymous"). The `<type>` field is an [option] that represents the expected type of values for the bind marker. See the Rows documentation (section 4.2.5.2) for full details on the `<type>` field.

- `<result_metadata>` is defined exactly the same as `<metadata>` in the Rows documentation (section 4.2.5.2). This describes the metadata for the result set that will be returned when this prepared statement is executed. Note that `<result_metadata>` may be empty (have the `No_metadata` flag and 0 columns, See section 4.2.5.2) and will be for any query that is not a Select. In fact, there is never a guarantee that this will be non-empty, so implementations should protect themselves accordingly. This result metadata is an optimization that allows implementations to later execute the prepared statement without requesting the metadata (see the `Skip_metadata` flag in EXECUTE). Clients can safely discard this metadata if they do not want to take advantage of that optimization.

Note that the prepared query ID returned is global to the node on which the query has been prepared. It can be used on any connection to that node until the node is restarted (after which the query must be reprepared).

4.2.5.5. Schema_change

The result to a schema altering query (creation/update/drop of a keyspace/table/index). The body (after the kind [int]) is the same as the body for a "SCHEMA_CHANGE" event, so 3 strings:

`<change_type><target><options>`

Please refer to section 4.2.6 below for the meaning of those fields.

Note that a query to create or drop an index is considered to be a change to the table the index is on.

4.2.6. EVENT

An event pushed by the server. A client will only receive events for the types it has REGISTERed to. The body of an EVENT message will start with a [string] representing the event type. The rest of the message depends on the event type. The valid event types are:

- "TOPOLOGY_CHANGE": events related to change in the cluster topology. Currently, events are sent when new nodes are added to the cluster, and when nodes are removed. The body of the message (after the event type) consists of a [string] and an [inet], corresponding respectively to the type of change ("NEW_NODE" or "REMOVED_NODE") followed by the address of the new/removed node.

- "STATUS_CHANGE": events related to change of node status. Currently, up/down events are sent. The body of the message (after the event type) consists of a [string] and an [inet], corresponding respectively to the type of status change ("UP" or "DOWN") followed by the address of the concerned node.
- "SCHEMA_CHANGE": events related to schema change. After the event type, the rest of the message will be <change_type><target><options> where:
 - <change_type> is a [string] representing the type of changed involved. It will be one of "CREATED", "UPDATED" or "DROPPED".
 - <target> is a [string] that can be one of "KEYSPACE", "TABLE", "TYPE", "FUNCTION" or "AGGREGATE" and describes what has been modified ("TYPE" stands for modifications related to user types, "FUNCTION" for modifications related to user defined functions, "AGGREGATE" for modifications related to user defined aggregates).
 - <options> depends on the preceding <target>:
 - If <target> is "KEYSPACE", then <options> will be a single [string] representing the keyspace changed.
 - If <target> is "TABLE" or "TYPE", then <options> will be 2 [string]: the first one will be the keyspace containing the affected object, and the second one will be the name of said affected object (either the table, user type, function, or aggregate name).
 - If <target> is "FUNCTION" or "AGGREGATE", multiple arguments follow:
 - [string] keyspace containing the user defined function / aggregate
 - [string] the function/aggregate name
 - [string list] one string for each argument type (as CQL type)

All EVENT messages have a streamId of -1 (Section 2.3).

Please note that "NEW_NODE" and "UP" events are sent based on internal Gossip communication and as such may be sent a short delay before the binary protocol server on the newly up node is fully started. Clients are thus advised to wait a short time before trying to connect to the node (1 second should be enough), otherwise they may experience a connection refusal at first.

4.2.7. AUTH_CHALLENGE

A server authentication challenge (see AUTH_RESPONSE (Section 4.1.2) for more details).

The body of this message is a single [bytes] token. The details of what this token contains (and when it can be null/empty, if ever) depends on the actual authenticator used.

Clients are expected to answer the server challenge with an AUTH_RESPONSE message.

4.2.8. AUTH_SUCCESS

Indicates the success of the authentication phase. See Section 4.2.3 for more details.

The body of this message is a single [bytes] token holding final information from the server that the client may require to finish the authentication process. What that token contains and whether it can be null depends on the actual authenticator used.

5. Compression

Frame compression is supported by the protocol, but then only the frame body is compressed (the frame header should never be compressed).

Before being used, client and server must agree on a compression algorithm to use, which is done in the STARTUP message. As a consequence, a STARTUP message must never be compressed. However, once the STARTUP frame has been received by the server, messages can be compressed (including the response to the STARTUP request). Frames do not have to be compressed, however, even if compression has been agreed upon (a server may only compress frames above a certain size at its discretion). A frame body should be compressed if and only if the compressed flag (see Section 2.2) is set.

As of version 2 of the protocol, the following compressions are available:

- lz4 (<https://code.google.com/p/lz4/>). In that, note that the first four bytes of the body will be the uncompressed length (followed by the compressed bytes).
- snappy (<https://code.google.com/p/snappy/>). This compression might not be available as it depends on a native lib (server-side) that might not be available on some installations.

6. Data Type Serialization Formats

This sections describes the serialization formats for all CQL data types supported by Cassandra through the native protocol. These serialization formats should be used by client drivers to encode values for EXECUTE messages. Cassandra will use these formats when returning values in RESULT messages.

All values are represented as [bytes] in EXECUTE and RESULT messages. The [bytes] format includes an int prefix denoting the length of the value. For that reason, the serialization formats described here will not include a length component.

For legacy compatibility reasons, note that most non-string types support "empty" values (i.e. a value with zero length). An empty value is distinct

from NULL, which is encoded with a negative length.

As with the rest of the native protocol, all encodings are big-endian.

6.1. ascii

A sequence of bytes in the ASCII range [0, 127]. Bytes with values outside of this range will result in a validation error.

6.2 bigint

An eight-byte two's complement integer.

6.3 blob

Any sequence of bytes.

6.4 boolean

A single byte. A value of 0 denotes "false"; any other value denotes "true". (However, it is recommended that a value of 1 be used to represent "true".)

6.5 date

An unsigned integer representing days with epoch centered at 2^{31} . (unix epoch January 1st, 1970).

A few examples:

0: -5877641-06-23

2^{31} : 1970-1-1

2^{32} : 5881580-07-11

6.6 decimal

The decimal format represents an arbitrary-precision number. It contains an [int] "scale" component followed by a varint encoding (see section 6.17) of the unscaled value. The encoded value represents " $\langle \text{unscaled} \rangle E \langle -\text{scale} \rangle$ ". In other words, " $\langle \text{unscaled} \rangle * 10^{(-1 * \langle \text{scale} \rangle)}$ ".

6.7 double

An 8 byte floating point number in the IEEE 754 binary64 format.

6.8 duration

A duration is composed of 3 signed variable length integers ([vint]s).

The first [vint] represents a number of months, the second [vint] represents a number of days, and the last [vint] represents a number of nanoseconds.

The number of months and days must be valid 32 bits integers whereas the

number of nanoseconds must be a valid 64 bits integer.

A duration can either be positive or negative. If a duration is positive all the integers must be positive or zero. If a duration is negative all the numbers must be negative or zero.

6.9 float

A 4 byte floating point number in the IEEE 754 binary32 format.

6.10 inet

A 4 byte or 16 byte sequence denoting an IPv4 or IPv6 address, respectively.

6.11 int

A 4 byte two's complement integer.

6.12 list

A [int] n indicating the number of elements in the list, followed by n elements. Each element is [bytes] representing the serialized value.

6.13 map

A [int] n indicating the number of key/value pairs in the map, followed by n entries. Each entry is composed of two [bytes] representing the key and value.

6.14 set

A [int] n indicating the number of elements in the set, followed by n elements. Each element is [bytes] representing the serialized value.

6.15 smallint

A 2 byte two's complement integer.

6.16 text

A sequence of bytes conforming to the UTF-8 specifications.

6.17 time

An 8 byte two's complement long representing nanoseconds since midnight. Valid values are in the range 0 to 8639999999999

6.18 timestamp

An 8 byte two's complement integer representing a millisecond-precision offset from the unix epoch (00:00:00, January 1st, 1970). Negative values represent a negative offset from the epoch.

6.19 timeuuid

A 16 byte sequence representing a version 1 UUID as defined by RFC 4122.

6.20 tinyint

A 1 byte two's complement integer.

6.21 tuple

A sequence of [bytes] values representing the items in a tuple. The encoding of each element depends on the data type for that position in the tuple. Null values may be represented by using length -1 for the [bytes] representation of an element.

6.22 uuid

A 16 byte sequence representing any valid UUID as defined by RFC 4122.

6.23 varchar

An alias of the "text" type.

6.24 varint

A variable-length two's complement encoding of a signed integer.

The following examples may help implementors of this spec:

Value | Encoding

----- -----
0 0x00
1 0x01
127 0x7F
128 0x0080
129 0x0081
-1 0xFF
-128 0x80
-129 0xFF7F

Note that positive numbers must use a most-significant byte with a value less than 0x80, because a most-significant bit of 1 indicates a negative value. Implementors should pad positive values that have a MSB \geq 0x80 with a leading 0x00 byte.

7. User Defined Types

This section describes the serialization format for User defined types (UDT), as described in section 4.2.5.2.

A UDT value is composed of successive [bytes] values, one for each field of the UDT value (in the order defined by the type). A UDT value will generally have one value for each field of the type it represents, but it is allowed to have less values than the type has fields.

8. Result paging

The protocol allows for paging the result of queries. For that, the QUERY and EXECUTE messages have a <result_page_size> value that indicate the desired page size in CQL3 rows.

If a positive value is provided for <result_page_size>, the result set of the RESULT message returned for the query will contain at most the <result_page_size> first rows of the query result. If that first page of results contains the full result set for the query, the RESULT message (of kind `Rows`) will have the Has_more_pages flag *not* set. However, if some results are not part of the first response, the Has_more_pages flag will be set and the result will contain a <paging_state> value. In that case, the <paging_state> value should be used in a QUERY or EXECUTE message (that has the *same* query as the original one or the behavior is undefined) to retrieve the next page of results.

Only CQL3 queries that return a result set (RESULT message with a Rows `kind`) support paging. For other type of queries, the <result_page_size> value is ignored.

Note to client implementors:

- While <result_page_size> can be as low as 1, it will likely be detrimental to performance to pick a value too low. A value below 100 is probably too low for most use cases.
- Clients should not rely on the actual size of the result set returned to decide if there are more results to fetch or not. Instead, they should always check the Has_more_pages flag (unless they did not enable paging for the query obviously). Clients should also not assert that no result will have more than <result_page_size> results. While the current implementation always respects the exact value of <result_page_size>, we reserve the right to return slightly smaller or bigger pages in the future for performance reasons.
- The <paging_state> is specific to a protocol version and drivers should not send a <paging_state> returned by a node using the protocol v3 to query a node using the protocol v4 for instance.

9. Error codes

Let us recall that an ERROR message is composed of `<code><message>[...]` (see 4.2.1 for details). The supported error codes, as well as any additional information the message may contain after the `<message>` are described below:

0x0000 Server error: something unexpected happened. This indicates a server-side bug.

0x000A Protocol error: some client message triggered a protocol violation (for instance a QUERY message is sent before a STARTUP one has been sent)

0x0100 Authentication error: authentication was required and failed. The possible reason for failing depends on the authenticator in use, which may or may not include more detail in the accompanying error message.

0x1000 Unavailable exception. The rest of the ERROR message body will be `<cl><required><alive>`

where:

`<cl>` is the [consistency] level of the query that triggered the exception.

`<required>` is an [int] representing the number of nodes that should be alive to respect `<cl>`

`<alive>` is an [int] representing the number of replicas that were known to be alive when the request had been processed (since an unavailable exception has been triggered, there will be `<alive> < <required>`)

0x1001 Overloaded: the request cannot be processed because the coordinator node is overloaded

0x1002 Is_bootstrapping: the request was a read request but the coordinator node is bootstrapping

0x1003 Truncate_error: error during a truncation error.

0x1100 Write_timeout: Timeout exception during a write request. The rest of the ERROR message body will be `<cl><received><blockfor><writeType>`

where:

`<cl>` is the [consistency] level of the query having triggered the exception.

`<received>` is an [int] representing the number of nodes having acknowledged the request.

`<blockfor>` is an [int] representing the number of replicas whose acknowledgement is required to achieve `<cl>`.

`<writeType>` is a [string] that describe the type of the write that timed out. The value of that string can be one of:

- "SIMPLE": the write was a non-batched non-counter write.

- "BATCH": the write was a (logged) batch write.

If this type is received, it means the batch log has been successfully written (otherwise a "BATCH_LOG" type would have been sent instead).

- "UNLOGGED_BATCH": the write was an unlogged batch. No batch log write has been attempted.
- "COUNTER": the write was a counter write (batched or not).
- "BATCH_LOG": the timeout occurred during the write to the batch log when a (logged) batch write was requested.

0x1200 Read_timeout: Timeout exception during a read request. The rest of the ERROR message body will be

<cl><received><blockfor><data_present>

where:

<cl> is the [consistency] level of the query having triggered the exception.

<received> is an [int] representing the number of nodes having answered the request.

<blockfor> is an [int] representing the number of replicas whose response is required to achieve <cl>. Please note that it is possible to have <received> >= <blockfor> if <data_present> is false. Also in the (unlikely) case where <cl> is achieved but the coordinator node times out while waiting for read-repair acknowledgement.

<data_present> is a single byte. If its value is 0, it means the replica that was asked for data has not responded. Otherwise, the value is != 0.

0x1300 Read_failure: A non-timeout exception during a read request. The rest of the ERROR message body will be

<cl><received><blockfor><reasonmap><data_present>

where:

<cl> is the [consistency] level of the query having triggered the exception.

<received> is an [int] representing the number of nodes having answered the request.

<blockfor> is an [int] representing the number of replicas whose acknowledgement is required to achieve <cl>.

<reasonmap> is a map of endpoint to failure reason codes. This maps the endpoints of the replica nodes that failed when executing the request to a code representing the reason for the failure. The map is encoded starting with an [int] n followed by n pairs of <endpoint><failurecode> where <endpoint> is an [inetaddr] and <failurecode> is a [short] that has the following meaning:

0x0000 Unknown reason

0x0001 Too many tombstones read (as controlled by the yml tombstone_failure_threshold option)

0x0002 The query uses an index but that index is not available

(built) on the queried <endpoint>.

0x0003 The query writes on some CDC enabled tables, but the CDC space is full (CDC data isn't consumed fast enough). Note that this can only happen in Write_failure in practice, but the reasons are shared between both exception.

0x0004 Some failures (one or more) were reported to the replica "leading" a counter write. The actual error didn't occur on the node that sent this failure, it is simply the node reporting it due to how counter writes work; the initial reason for the failure should have been logged on the actual replica on which the problem occurred).

0x0005 The table used by the query was not found on at least one of the replica. This strongly suggest a query was done on either a newly created or newly dropped table with having waited for schema agreement first.

0x0006 The keyspaces used by the query was not found on at least one replica. Same likely cause as for tables above.

Any other value for <failurecode> must be considered as an Unknown reason (but drivers should not fail) as new <failurecode> may be added without a bump of the protocol version.

<data_present> is a single byte. If its value is 0, it means the replica that was asked for data had not responded. Otherwise, the value is != 0.

0x1400 Function_failure: A (user defined) function failed during execution.

The rest of the ERROR message body will be

<keyspace><function><arg_types>

where:

<keyspace> is the keyspace [string] of the failed function

<function> is the name [string] of the failed function

<arg_types> [string list] one string for each argument type (as CQL type) of the failed function

0x1500 Write_failure: A non-timeout exception during a write request. The rest of the ERROR message body will be

<cl><received><blockfor><reasonmap><write_type>

where:

<cl> is the [consistency] level of the query having triggered the exception.

<received> is an [int] representing the number of nodes having answered the request.

<blockfor> is an [int] representing the number of replicas whose acknowledgement is required to achieve <cl>.

<reasonmap> is a map of endpoint to failure reason codes. This maps the endpoints of the replica nodes that failed when executing the request to a code representing the reason for the failure. The map is encoded starting with an [int] n followed by n pairs of <endpoint><failurecode> where <endpoint> is an [inetaddr] and <failurecode> is a [short] whose meaning is the same than in Read_failure (see above, though note that some reason only apply to writes and others only

to reads).

<writeType> is a [string] that describes the type of the write that failed. The value of that string can be one of:

- "SIMPLE": the write was a non-batched non-counter write.
- "BATCH": the write was a (logged) batch write. If this type is received, it means the batch log has been successfully written (otherwise a "BATCH_LOG" type would have been sent instead).
- "UNLOGGED_BATCH": the write was an unlogged batch. No batch log write has been attempted.
- "COUNTER": the write was a counter write (batched or not).
- "BATCH_LOG": the failure occurred during the write to the batch log when a (logged) batch write was requested.

- 0x2000 Syntax_error: The submitted query has a syntax error.
- 0x2100 Unauthorized: The logged user doesn't have the right to perform the query.
- 0x2200 Invalid: The query is syntactically correct but invalid.
- 0x2300 Config_error: The query is invalid because of some configuration issue
- 0x2400 Already_exists: The query attempted to create a keyspace or a table that was already existing. The rest of the ERROR message body will be <ks><table> where:
- <ks> is a [string] representing either the keyspace that already exists, or the keyspace in which the table that already exists is.
 - <table> is a [string] representing the name of the table that already exists. If the query was attempting to create a keyspace, <table> will be present but will be the empty string.
- 0x2500 Unprepared: Can be thrown while a prepared statement tries to be executed if the provided prepared statement ID is not known by this host. The rest of the ERROR message body will be [short bytes] representing the unknown ID.

0x8000 Client_write_failure: an error occurred when sending asynchronous results to the client, for example if the client is unable to keep up with the rate during a continuous paging session.

10. Changes

10.1. Changes from CQL binary protocol version 5

- * Second most significant bit in the frame version byte is set to one to indicate a dse protocol message (section 2.1)

- * Continuous paging:
 - * Added options to QUERY message (section 4.1.4)
 - * Added response parameters to ROWS response (section 4.2.5.2)
- * Added CANCEL message (section 4.1.9)

10.2. Changes from DSE binary protocol v1

- * Added keyspace field in QUERY, PREPARE, and BATCH messages (Sections 4.1.4, 4.1.5, and 4.1.7).
- * Added [int] flags field in PREPARE message (Section 4.1.5).
- * Added STARTUP message parameters to pass client instance, driver information and application information.
- * Added [next_pages] to continuous paging QUERY messages (section 4.1.4)
- * Renamed CANCEL to REVISE_REQUEST and added revision type 2 for updating [next_pages] (section 4.1.9)
- * Add two new reasons for read failures (section 9, 'reasonmap' of the 'Read_failure' case).
- * Added <result_metadata_id> to Prepared response (section 4.2.5.4) and EXECUTE request (section 4.1.6), and Metadata_changed flag and <new_metadata_id> to Rows response (section 4.2.5.2).

Found in path(s):

* /opt/cola/permits/1337324070_1654191441.387334/0/native-protocol-1-5-1-1-jar/dse_protocol_v2.spec

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

<!--

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-->

Found in path(s):

* /opt/cola/permits/1337324070_1654191441.387334/0/native-protocol-1-5-1-1-jar/META-INF/maven/com.datastax.oss/native-protocol/pom.xml

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

CQL BINARY PROTOCOL v6

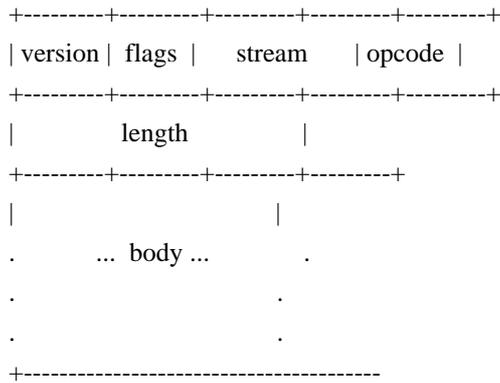
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1. Overview

The CQL binary protocol is a frame based protocol. Frames are defined as:

0 8 16 24 32 40



The protocol is big-endian (network byte order).

Each frame contains a fixed size header (9 bytes) followed by a variable size body. The header is described in Section 2. The content of the body depends on the header opcode value (the body can in particular be empty for some opcode values). The list of allowed opcodes is defined in Section 2.4 and the details of each corresponding message are described Section 4.

The protocol distinguishes two types of frames: requests and responses. Requests are those frames sent by the client to the server. Responses are those frames sent by the server to the client. Note, however, that the protocol supports server pushes (events) so a response does not necessarily come right after a client request.

Note to client implementors: client libraries should always assume that the body of a given frame may contain more data than what is described in this document. It will however always be safe to ignore the remainder of the frame body in such cases. The reason is that this may enable extending the protocol with optional features without needing to change the protocol version.

2. Frame header

2.1. version

The version is a single byte that indicates both the direction of the message (request or response) and the version of the protocol in use. The most significant bit of version is used to define the direction of the message: 0 indicates a request, 1 indicates a response. This can be useful for protocol analyzers to distinguish the nature of the packet from the direction in which it is moving. The rest of that byte is the protocol version (5 for the protocol defined in this document). In other words, for this version of the protocol, version will be one of:

- 0x05 Request frame for this protocol version
- 0x85 Response frame for this protocol version

Please note that while every message ships with the version, only one version

of messages is accepted on a given connection. In other words, the first message exchanged (STARTUP) sets the version for the connection for the lifetime of this connection. The single exception to this behavior is when a startup message is sent with a version that is higher than the current server version. In this case, the server will respond with its current version.

This document describes version 5 of the protocol. For the changes made since version 4, see Section 10.

2.2. flags

Flags applying to this frame. The flags have the following meaning (described by the mask that allows selecting them):

- 0x01: Compression flag. If set, the frame body is compressed. The actual compression to use should have been set up beforehand through the Startup message (which thus cannot be compressed; Section 4.1.1).
- 0x02: Tracing flag. For a request frame, this indicates the client requires tracing of the request. Note that only QUERY, PREPARE and EXECUTE queries support tracing. Other requests will simply ignore the tracing flag if set. If a request supports tracing and the tracing flag is set, the response to this request will have the tracing flag set and contain tracing information.
If a response frame has the tracing flag set, its body contains a tracing ID. The tracing ID is a [uuid] and is the first thing in the frame body. The rest of the body will then be the usual body corresponding to the response opcode.
- 0x04: Custom payload flag. For a request or response frame, this indicates that a generic key-value custom payload for a custom QueryHandler implementation is present in the frame. Such a custom payload is simply ignored by the default QueryHandler implementation.
Currently, only QUERY, PREPARE, EXECUTE and BATCH requests support payload.
Type of custom payload is [bytes map] (see below).
- 0x08: Warning flag. The response contains warnings which were generated by the server to go along with this response.
If a response frame has the warning flag set, its body will contain the text of the warnings. The warnings are a [string list] and will be the first value in the frame body if the tracing flag is not set, or directly after the tracing ID if it is.
- 0x10: Use beta flag. Indicates that the client opts in to use protocol version that is currently in beta. Server will respond with ERROR if protocol version is marked as beta on server and client does not provide this flag.

The rest of flags is currently unused and ignored.

2.3. stream

A frame has a stream id (a [short] value). When sending request messages, this stream id must be set by the client to a non-negative value (negative stream id are reserved for streams initiated by the server; currently all EVENT messages (section 4.2.6) have a streamId of -1). If a client sends a request message with the stream id X, it is guaranteed that the stream id of the response to that message will be X.

This helps to enable the asynchronous nature of the protocol. If a client sends multiple messages simultaneously (without waiting for responses), there is no guarantee on the order of the responses. For instance, if the client writes REQ_1, REQ_2, REQ_3 on the wire (in that order), the server might respond to REQ_3 (or REQ_2) first. Assigning different stream ids to these 3 requests allows the client to distinguish to which request a received answer responds to. As there can only be 32768 different simultaneous streams, it is up to the client to reuse stream id.

Note that clients are free to use the protocol synchronously (i.e. wait for the response to REQ_N before sending REQ_{N+1}). In that case, the stream id can be safely set to 0. Clients should also feel free to use only a subset of the 32768 maximum possible stream ids if it is simpler for its implementation.

2.4. opcode

An integer byte that distinguishes the actual message:

0x00	ERROR
0x01	STARTUP
0x02	READY
0x03	AUTHENTICATE
0x05	OPTIONS
0x06	SUPPORTED
0x07	QUERY
0x08	RESULT
0x09	PREPARE
0x0A	EXECUTE
0x0B	REGISTER
0x0C	EVENT
0x0D	BATCH
0x0E	AUTH_CHALLENGE
0x0F	AUTH_RESPONSE
0x10	AUTH_SUCCESS

Messages are described in Section 4.

(Note that there is no 0x04 message in this version of the protocol)

2.5. length

A 4 byte integer representing the length of the body of the frame (note: currently a frame is limited to 256MB in length).

3. Notations

To describe the layout of the frame body for the messages in Section 4, we define the following:

- [int] A 4 bytes integer
- [long] A 8 bytes integer
- [byte] A 1 byte unsigned integer
- [short] A 2 bytes unsigned integer
- [string] A [short] n, followed by n bytes representing an UTF-8 string.
- [long string] An [int] n, followed by n bytes representing an UTF-8 string.
- [uuid] A 16 bytes long uuid.
- [string list] A [short] n, followed by n [string].
- [bytes] A [int] n, followed by n bytes if $n \geq 0$. If $n < 0$, no byte should follow and the value represented is `null`.
- [value] A [int] n, followed by n bytes if $n \geq 0$.
If $n == -1$ no byte should follow and the value represented is `null`.
If $n == -2$ no byte should follow and the value represented is `not set` not resulting in any change to the existing value.
 $n < -2$ is an invalid value and results in an error.
- [short bytes] A [short] n, followed by n bytes if $n \geq 0$.
- [unsigned vint] An unsigned variable length integer. A vint is encoded with the most significant byte (MSB) first. The most significant byte will contains the information about how many extra bytes need to be read as well as the most significant bits of the integer. The number of extra bytes to read is encoded as 1 bits on the left side. For example, if we need to read 2 more bytes the first byte will start with 110 (e.g. 256 000 will be encoded on 3 bytes as [110]00011 11101000 00000000) If the encoded integer is 8 bytes long the vint will be encoded on 9 bytes and the first byte will be: 11111111
- [vint] A signed variable length integer. This is encoded using zig-zag encoding and then sent like an [unsigned vint]. Zig-zag encoding converts numbers as follows:
 $0 = 0, -1 = 1, 1 = 2, -2 = 3, 2 = 4, -3 = 5, 3 = 6$ and so forth.
The purpose is to send small negative values as small unsigned values, so that we save bytes on the wire.
To encode a value n use $(n \gg 31) \wedge (n \ll 1)$ for 32 bit values, and $(n \gg 63) \wedge (n \ll 1)$ for 64 bit values where \wedge is the xor operation, \ll is the left shift operation and \gg is the arithmetic right shift operation (highest-order bit is replicated).
Decode with $(n \gg 1) \wedge -(n \& 1)$.
- [option] A pair of <id><value> where <id> is a [short] representing the option id and <value> depends on that option (and can be

of size 0). The supported id (and the corresponding <value>) will be described when this is used.

[option list] A [short] n, followed by n [option].

[inet] An address (ip and port) to a node. It consists of one [byte] n, that represents the address size, followed by n [byte] representing the IP address (in practice n can only be either 4 (IPv4) or 16 (IPv6)), following by one [int] representing the port.

[inetaddr] An IP address (without a port) to a node. It consists of one [byte] n, that represents the address size, followed by n [byte] representing the IP address.

[consistency] A consistency level specification. This is a [short] representing a consistency level with the following correspondance:

0x0000 ANY
0x0001 ONE
0x0002 TWO
0x0003 THREE
0x0004 QUORUM
0x0005 ALL
0x0006 LOCAL_QUORUM
0x0007 EACH_QUORUM
0x0008 SERIAL
0x0009 LOCAL_SERIAL
0x000A LOCAL_ONE

[string map] A [short] n, followed by n pair <k><v> where <k> and <v> are [string].

[string multimap] A [short] n, followed by n pair <k><v> where <k> is a [string] and <v> is a [string list].

[bytes map] A [short] n, followed by n pair <k><v> where <k> is a [string] and <v> is a [bytes].

4. Messages

4.1. Requests

Note that outside of their normal responses (described below), all requests can get an ERROR message (Section 4.2.1) as response.

4.1.1. STARTUP

Initialize the connection. The server will respond by either a READY message (in which case the connection is ready for queries) or an AUTHENTICATE message (in which case credentials will need to be provided using AUTH_RESPONSE).

This must be the first message of the connection, except for OPTIONS that can

be sent before to find out the options supported by the server. Once the connection has been initialized, a client should not send any more STARTUP messages.

The body is a [string map] of options. Possible options are:

- "CQL_VERSION": the version of CQL to use. This option is mandatory and currently the only version supported is "3.0.0". Note that this is different from the protocol version.
- "COMPRESSION": the compression algorithm to use for frames (See section 5). This is optional; if not specified no compression will be used.

4.1.2. AUTH_RESPONSE

Answers a server authentication challenge.

Authentication in the protocol is SASL based. The server sends authentication challenges (a bytes token) to which the client answers with this message. Those exchanges continue until the server accepts the authentication by sending a AUTH_SUCCESS message after a client AUTH_RESPONSE. Note that the exchange begins with the client sending an initial AUTH_RESPONSE in response to a server AUTHENTICATE request.

The body of this message is a single [bytes] token. The details of what this token contains (and when it can be null/empty, if ever) depends on the actual authenticator used.

The response to a AUTH_RESPONSE is either a follow-up AUTH_CHALLENGE message, an AUTH_SUCCESS message or an ERROR message.

4.1.3. OPTIONS

Asks the server to return which STARTUP options are supported. The body of an OPTIONS message should be empty and the server will respond with a SUPPORTED message.

4.1.4. QUERY

Performs a CQL query. The body of the message must be:

<query><query_parameters>

where <query> is a [long string] representing the query and

<query_parameters> must be

<consistency><flags>[<n>[name_1]<value_1>...[name_n]<value_n>][<result_page_size>][<paging_state>][<serial_consistency>][<timestamp>][<keyspace>][<now_in_seconds>]

where:

- <consistency> is the [consistency] level for the operation.

- <flags> is a [int] whose bits define the options for this query and in particular influence what the remainder of the message contains. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:
 - 0x0001: Values. If set, a [short] <n> followed by <n> [value] values are provided. Those values are used for bound variables in the query. Optionally, if the 0x40 flag is present, each value will be preceded by a [string] name, representing the name of the marker the value must be bound to.
 - 0x0002: Skip_metadata. If set, the Result Set returned as a response to the query (if any) will have the NO_METADATA flag (see Section 4.2.5.2).
 - 0x0004: Page_size. If set, <result_page_size> is an [int] controlling the desired page size of the result (in CQL3 rows). See the section on paging (Section 8) for more details.
 - 0x0008: With_paging_state. If set, <paging_state> should be present. <paging_state> is a [bytes] value that should have been returned in a result set (Section 4.2.5.2). The query will be executed but starting from a given paging state. This is also to continue paging on a different node than the one where it started (See Section 8 for more details).
 - 0x0010: With serial consistency. If set, <serial_consistency> should be present. <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present, it defaults to SERIAL. This option will be ignored for anything else other than a conditional update/insert.
 - 0x0020: With default timestamp. If set, <timestamp> must be present. <timestamp> is a [long] representing the default timestamp for the query in microseconds (negative values are forbidden). This will replace the server side assigned timestamp as default timestamp. Note that a timestamp in the query itself will still override this timestamp. This is entirely optional.
 - 0x0040: With names for values. This only makes sense if the 0x01 flag is set and is ignored otherwise. If present, the values from the 0x01 flag will be preceded by a name (see above). Note that this is only useful for QUERY requests where named bind markers are used; for EXECUTE statements, since the names for the expected values was returned during preparation, a client can always provide values in the right order without any names and using this flag, while supported, is almost surely inefficient.
 - 0x0080: With keyspace. If set, <keyspace> must be present. <keyspace> is a [string] indicating the keyspace that the query should be executed in. It supercedes the keyspace that the connection is bound to, if any.
 - 0x0100: With now in seconds. If set, <now_in_seconds> must be present. <now_in_seconds> is an [int] representing the current time (now) for the query. Affects TTL cell liveness in read queries and local deletion time for tombstones and TTL cells in update requests. It's intended for testing purposes and is optional.

Note that the consistency is ignored by some queries (USE, CREATE, ALTER, TRUNCATE, ...).

The server will respond to a QUERY message with a RESULT message, the content of which depends on the query.

4.1.5. PREPARE

Prepare a query for later execution (through EXECUTE). The body of the message must be:

<query><flags>[<keyspace>]

where:

- <query> is a [long string] representing the CQL query.
- <flags> is a [int] whose bits define the options for this statement and in particular influence what the remainder of the message contains.

A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:

- 0x01: With keyspace. If set, <keyspace> must be present. <keyspace> is a [string] indicating the keyspace that the query should be executed in. It supercedes the keyspace that the connection is bound to, if any.

The server will respond with a RESULT message with a `prepared` kind (0x0004, see Section 4.2.5).

4.1.6. EXECUTE

Executes a prepared query. The body of the message must be:

<id><result_metadata_id><query_parameters>

where

- <id> is the prepared query ID. It's the [short bytes] returned as a response to a PREPARE message.
- <result_metadata_id> is the ID of the resultset metadata that was sent along with response to PREPARE message. If a RESULT/Rows message reports changed resultset metadata with the `Metadata_changed` flag, the reported new resultset metadata must be used in subsequent executions.
- <query_parameters> has the exact same definition as in QUERY (see Section 4.1.4).

4.1.7. BATCH

Allows executing a list of queries (prepared or not) as a batch (note that only DML statements are accepted in a batch). The body of the message must be:

<type><n><query_1>...<query_n><consistency><flags>[<serial_consistency>][<timestamp>][<keyspace>][<now_in_seconds>]

where:

- <type> is a [byte] indicating the type of batch to use:
 - If <type> == 0, the batch will be "logged". This is equivalent to a normal CQL3 batch statement.
 - If <type> == 1, the batch will be "unlogged".
 - If <type> == 2, the batch will be a "counter" batch (and non-counter statements will be rejected).
- <flags> is a [int] whose bits define the options for this query and in particular influence what the remainder of the message contains. It is similar to the <flags> from QUERY and EXECUTE methods, except that the 4 rightmost bits must always be 0 as their corresponding options do not make sense for Batch. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:
 - 0x0010: With serial consistency. If set, <serial_consistency> should be present. <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present, it defaults to SERIAL. This option will be ignored for anything else other than a conditional update/insert.
 - 0x0020: With default timestamp. If set, <timestamp> should be present. <timestamp> is a [long] representing the default timestamp for the query in microseconds. This will replace the server side assigned timestamp as default timestamp. Note that a timestamp in the query itself will still override this timestamp. This is entirely optional.
 - 0x0040: With names for values. If set, then all values for all <query_i> must be preceded by a [string] <name_i> that have the same meaning as in QUERY requests [IMPORTANT NOTE: this feature does not work and should not be used. It is specified in a way that makes it impossible for the server to implement. This will be fixed in a future version of the native protocol. See <https://issues.apache.org/jira/browse/CASSANDRA-10246> for more details].
 - 0x0080: With keyspace. If set, <keyspace> must be present. <keyspace> is a [string] indicating the keyspace that the query should be executed in. It supercedes the keyspace that the connection is bound to, if any.
 - 0x0100: With now in seconds. If set, <now_in_seconds> must be present. <now_in_seconds> is an [int] representing the current time (now) for the query. Affects TTL cell liveness in read queries and local deletion time for tombstones and TTL cells in update requests. It's intended for testing purposes and is optional.
- <n> is a [short] indicating the number of following queries.
- <query_1>...<query_n> are the queries to execute. A <query_i> must be of the form:


```
<kind><string_or_id><n><name_1><value_1>...<name_n><value_n>
```

 where:
 - <kind> is a [byte] indicating whether the following query is a prepared one or not. <kind> value must be either 0 or 1.
 - <string_or_id> depends on the value of <kind>. If <kind> == 0, it should be a [long string] query string (as in QUERY, the query string might contain bind markers). Otherwise (that is, if <kind> == 1), it should be a

[short bytes] representing a prepared query ID.

- <n> is a [short] indicating the number (possibly 0) of following values.
- <name_i> is the optional name of the following <value_i>. It must be present if and only if the 0x40 flag is provided for the batch.
- <value_i> is the [value] to use for bound variable i (of bound variable <name_i> if the 0x40 flag is used).
- <consistency> is the [consistency] level for the operation.
- <serial_consistency> is only present if the 0x10 flag is set. In that case, <serial_consistency> is the [consistency] level for the serial phase of conditional updates. That consistency can only be either SERIAL or LOCAL_SERIAL and if not present will default to SERIAL. This option will be ignored for anything else other than a conditional update/insert.

The server will respond with a RESULT message.

4.1.8. REGISTER

Register this connection to receive some types of events. The body of the message is a [string list] representing the event types to register for. See section 4.2.6 for the list of valid event types.

The response to a REGISTER message will be a READY message.

Please note that if a client driver maintains multiple connections to a Cassandra node and/or connections to multiple nodes, it is advised to dedicate a handful of connections to receive events, but to *not* register for events on all connections, as this would only result in receiving multiple times the same event messages, wasting bandwidth.

4.2. Responses

This section describes the content of the frame body for the different responses. Please note that to make room for future evolution, clients should support extra informations (that they should simply discard) to the one described in this document at the end of the frame body.

4.2.1. ERROR

Indicates an error processing a request. The body of the message will be an error code ([int]) followed by a [string] error message. Then, depending on the exception, more content may follow. The error codes are defined in Section 9, along with their additional content if any.

4.2.2. READY

Indicates that the server is ready to process queries. This message will be sent by the server either after a `STARTUP` message if no authentication is required (if authentication is required, the server indicates readiness by sending a `AUTH_RESPONSE` message).

The body of a `READY` message is empty.

4.2.3. AUTHENTICATE

Indicates that the server requires authentication, and which authentication mechanism to use.

The authentication is SASL based and thus consists of a number of server challenges (`AUTH_CHALLENGE`, Section 4.2.7) followed by client responses (`AUTH_RESPONSE`, Section 4.1.2). The initial exchange is however bootstrapped by an initial client response. The details of that exchange (including how many challenge-response pairs are required) are specific to the authenticator in use. The exchange ends when the server sends an `AUTH_SUCCESS` message or an `ERROR` message.

This message will be sent following a `STARTUP` message if authentication is required and must be answered by a `AUTH_RESPONSE` message from the client.

The body consists of a single [string] indicating the full class name of the `IAAuthenticator` in use.

4.2.4. SUPPORTED

Indicates which startup options are supported by the server. This message comes as a response to an `OPTIONS` message.

The body of a `SUPPORTED` message is a [string multimap]. This multimap gives for each of the supported `STARTUP` options, the list of supported values. It also includes:

- "`PROTOCOL_VERSIONS`": the list of native protocol versions that are supported, encoded as the version number followed by a slash and the version description. For example: `3/v3`, `4/v4`, `5/v5`, `6/v6-beta`. If a version is in beta, it will have the word "beta" in its description.

4.2.5. RESULT

The result to a query (`QUERY`, `PREPARE`, `EXECUTE` or `BATCH` messages).

The first element of the body of a `RESULT` message is an [int] representing the `kind` of result. The rest of the body depends on the kind. The kind can be

one of:

- 0x0001 Void: for results carrying no information.
- 0x0002 Rows: for results to select queries, returning a set of rows.
- 0x0003 Set_keyspace: the result to a `use` query.
- 0x0004 Prepared: result to a PREPARE message.
- 0x0005 Schema_change: the result to a schema altering query.

The body for each kind (after the [int] kind) is defined below.

4.2.5.1. Void

The rest of the body for a Void result is empty. It indicates that a query was successful without providing more information.

4.2.5.2. Rows

Indicates a set of rows. The rest of the body of a Rows result is:

<metadata><rows_count><rows_content>

where:

- <metadata> is composed of:

<flags><columns_count>[<paging_state>][<new_metadata_id>][<global_table_spec>?<col_spec_1>...<col_spec_n>]

where:

- <flags> is an [int]. The bits of <flags> provides information on the formatting of the remaining information. A flag is set if the bit corresponding to its `mask` is set. Supported flags are, given their mask:

- 0x0001 Global_tables_spec: if set, only one table spec (keyspace and table name) is provided as <global_table_spec>. If not set, <global_table_spec> is not present.
- 0x0002 Has_more_pages: indicates whether this is not the last page of results and more should be retrieved. If set, the <paging_state> will be present. The <paging_state> is a [bytes] value that should be used in QUERY/EXECUTE to continue paging and retrieve the remainder of the result for this query (See Section 8 for more details).
- 0x0004 No_metadata: if set, the <metadata> is only composed of these <flags>, the <column_count> and optionally the <paging_state> (depending on the Has_more_pages flag) but no other information (so no <global_table_spec> nor <col_spec_i>). This will only ever be the case if this was requested during the query (see QUERY and RESULT messages).
- 0x0008 Metadata_changed: if set, the No_metadata flag has to be unset and <new_metadata_id> has to be supplied. This flag is to be used to avoid a roundtrip in case of metadata changes for queries that requested metadata to be skipped.

- <columns_count> is an [int] representing the number of columns selected by the query that produced this result. It defines the number of <col_spec_i> elements in and the number of elements for each row in <rows_content>.
- <new_metadata_id> is [short bytes] representing the new, changed resultset metadata. The new metadata ID must also be used in subsequent executions of the corresponding prepared statement, if any.
- <global_table_spec> is present if the Global_tables_spec is set in <flags>. It is composed of two [string] representing the (unique) keyspace name and table name the columns belong to.
- <col_spec_i> specifies the columns returned in the query. There are <column_count> such column specifications that are composed of:

(<ksname><tablename>)?<name><type>

The initial <ksname> and <tablename> are two [string] and are only present if the Global_tables_spec flag is not set. The <column_name> is a [string] and <type> is an [option] that corresponds to the description (what this description is depends a bit on the context: in results to selects, this will be either the user chosen alias or the selection used (often a column name, but it can be a function call too). In results to a PREPARE, this will be either the name of the corresponding bind variable or the column name for the variable if it is "anonymous") and type of the corresponding result. The option for <type> is either a native type (see below), in which case the option has no value, or a 'custom' type, in which case the value is a [string] representing the fully qualified class name of the type represented. Valid option ids are:

- 0x0000 Custom: the value is a [string], see above.
- 0x0001 Ascii
- 0x0002 Bigint
- 0x0003 Blob
- 0x0004 Boolean
- 0x0005 Counter
- 0x0006 Decimal
- 0x0007 Double
- 0x0008 Float
- 0x0009 Int
- 0x000B Timestamp
- 0x000C Uuid
- 0x000D Varchar
- 0x000E Varint
- 0x000F Timeuuid
- 0x0010 Inet
- 0x0011 Date
- 0x0012 Time
- 0x0013 Smallint
- 0x0014 Tinyint
- 0x0015 Duration
- 0x0020 List: the value is an [option], representing the type of the elements of the list.

- 0x0021 Map: the value is two [option], representing the types of the keys and values of the map
- 0x0022 Set: the value is an [option], representing the type of the elements of the set
- 0x0030 UDT: the value is `<ks><udt_name><n><name_1><type_1>...<name_n><type_n>` where:
- `<ks>` is a [string] representing the keyspace name this UDT is part of.
 - `<udt_name>` is a [string] representing the UDT name.
 - `<n>` is a [short] representing the number of fields of the UDT, and thus the number of `<name_i><type_i>` pairs following
 - `<name_i>` is a [string] representing the name of the `i`_th field of the UDT.
 - `<type_i>` is an [option] representing the type of the `i`_th field of the UDT.
- 0x0031 Tuple: the value is `<n><type_1>...<type_n>` where `<n>` is a [short] representing the number of values in the type, and `<type_i>` are [option] representing the type of the `i`_th component of the tuple

- `<rows_count>` is an [int] representing the number of rows present in this result. Those rows are serialized in the `<rows_content>` part.
- `<rows_content>` is composed of `<row_1>...<row_m>` where `m` is `<rows_count>`. Each `<row_i>` is composed of `<value_1>...<value_n>` where `n` is `<columns_count>` and where `<value_j>` is a [bytes] representing the value returned for the `j`th column of the `i`th row. In other words, `<rows_content>` is composed of $(\text{<rows_count> * <columns_count>})$ [bytes].

4.2.5.3. Set_keyspace

The result to a ``use`` query. The body (after the kind [int]) is a single [string] indicating the name of the keyspace that has been set.

4.2.5.4. Prepared

The result to a PREPARE message. The body of a Prepared result is:

`<id><result_metadata_id><metadata><result_metadata>`

where:

- `<id>` is [short bytes] representing the prepared query ID.
- `<result_metadata_id>` is [short bytes] representing the resultset metadata ID.
- `<metadata>` is composed of:

`<flags><columns_count><pk_count>[<pk_index_1>...<pk_index_n>][<global_table_spec>?<col_spec_1>...<col_spec_n>]`

where:

- `<flags>` is an [int]. The bits of `<flags>` provides information on the

formatting of the remaining information. A flag is set if the bit corresponding to its `mask` is set. Supported masks and their flags are:

0x0001 Global_tables_spec: if set, only one table spec (keyspace and table name) is provided as <global_table_spec>. If not set, <global_table_spec> is not present.

- <columns_count> is an [int] representing the number of bind markers in the prepared statement. It defines the number of <col_spec_i> elements.

- <pk_count> is an [int] representing the number of <pk_index_i> elements to follow. If this value is zero, at least one of the partition key columns in the table that the statement acts on did not have a corresponding bind marker (or the bind marker was wrapped in a function call).

- <pk_index_i> is a short that represents the index of the bind marker that corresponds to the partition key column in position i.

For example, a <pk_index> sequence of [2, 0, 1] indicates that the table has three partition key columns; the full partition key can be constructed by creating a composite of the values for the bind markers at index 2, at index 0, and at index 1.

This allows implementations with token-aware routing to correctly construct the partition key without needing to inspect table metadata.

- <global_table_spec> is present if the Global_tables_spec is set in <flags>. If present, it is composed of two [string]s. The first [string] is the name of the keyspace that the statement acts on. The second [string] is the name of the table that the columns represented by the bind markers belong to.

- <col_spec_i> specifies the bind markers in the prepared statement. There are <column_count> such column specifications, each with the following format:

(<kname><tablename>)?<name><type>

The initial <kname> and <tablename> are two [string] that are only present if the Global_tables_spec flag is not set. The <name> field is a [string] that holds the name of the bind marker (if named), or the name of the column, field, or expression that the bind marker corresponds to (if the bind marker is "anonymous"). The <type> field is an [option] that represents the expected type of values for the bind marker. See the Rows documentation (section 4.2.5.2) for full details on the <type> field.

- <result_metadata> is defined exactly the same as <metadata> in the Rows documentation (section 4.2.5.2). This describes the metadata for the result set that will be returned when this prepared statement is executed. Note that <result_metadata> may be empty (have the No_metadata flag and 0 columns, See section 4.2.5.2) and will be for any query that is not a Select. In fact, there is never a guarantee that this will be non-empty, so implementations should protect themselves accordingly. This result metadata

is an optimization that allows implementations to later execute the prepared statement without requesting the metadata (see the `Skip_metadata` flag in `EXECUTE`). Clients can safely discard this metadata if they do not want to take advantage of that optimization.

Note that the prepared query ID returned is global to the node on which the query has been prepared. It can be used on any connection to that node until the node is restarted (after which the query must be reprepared).

4.2.5.5. Schema_change

The result to a schema altering query (creation/update/drop of a keyspace/table/index). The body (after the kind [int]) is the same as the body for a "SCHEMA_CHANGE" event, so 3 strings:

<change_type><target><options>

Please refer to section 4.2.6 below for the meaning of those fields.

Note that a query to create or drop an index is considered to be a change to the table the index is on.

4.2.6. EVENT

An event pushed by the server. A client will only receive events for the types it has REGISTERed to. The body of an EVENT message will start with a [string] representing the event type. The rest of the message depends on the event type. The valid event types are:

- "TOPOLOGY_CHANGE": events related to change in the cluster topology. Currently, events are sent when new nodes are added to the cluster, and when nodes are removed. The body of the message (after the event type) consists of a [string] and an [inet], corresponding respectively to the type of change ("NEW_NODE" or "REMOVED_NODE") followed by the address of the new/removed node.
- "STATUS_CHANGE": events related to change of node status. Currently, up/down events are sent. The body of the message (after the event type) consists of a [string] and an [inet], corresponding respectively to the type of status change ("UP" or "DOWN") followed by the address of the concerned node.
- "SCHEMA_CHANGE": events related to schema change. After the event type, the rest of the message will be <change_type><target><options> where:
 - <change_type> is a [string] representing the type of changed involved. It will be one of "CREATED", "UPDATED" or "DROPPED".
 - <target> is a [string] that can be one of "KEYSPACE", "TABLE", "TYPE", "FUNCTION" or "AGGREGATE" and describes what has been modified ("TYPE" stands for modifications related to user types, "FUNCTION" for modifications related to user defined functions, "AGGREGATE" for modifications related to user defined aggregates).
 - <options> depends on the preceding <target>:

- If <target> is "KEYSPACE", then <options> will be a single [string] representing the keyspace changed.
- If <target> is "TABLE" or "TYPE", then <options> will be 2 [string]: the first one will be the keyspace containing the affected object, and the second one will be the name of said affected object (either the table, user type, function, or aggregate name).
- If <target> is "FUNCTION" or "AGGREGATE", multiple arguments follow:
 - [string] keyspace containing the user defined function / aggregate
 - [string] the function/aggregate name
 - [string list] one string for each argument type (as CQL type)

All EVENT messages have a streamId of -1 (Section 2.3).

Please note that "NEW_NODE" and "UP" events are sent based on internal Gossip communication and as such may be sent a short delay before the binary protocol server on the newly up node is fully started. Clients are thus advised to wait a short time before trying to connect to the node (1 second should be enough), otherwise they may experience a connection refusal at first.

4.2.7. AUTH_CHALLENGE

A server authentication challenge (see AUTH_RESPONSE (Section 4.1.2) for more details).

The body of this message is a single [bytes] token. The details of what this token contains (and when it can be null/empty, if ever) depends on the actual authenticator used.

Clients are expected to answer the server challenge with an AUTH_RESPONSE message.

4.2.8. AUTH_SUCCESS

Indicates the success of the authentication phase. See Section 4.2.3 for more details.

The body of this message is a single [bytes] token holding final information from the server that the client may require to finish the authentication process. What that token contains and whether it can be null depends on the actual authenticator used.

5. Compression

Frame compression is supported by the protocol, but then only the frame body is compressed (the frame header should never be compressed).

Before being used, client and server must agree on a compression algorithm to use, which is done in the STARTUP message. As a consequence, a STARTUP message must never be compressed. However, once the STARTUP frame has been received by the server, messages can be compressed (including the response to the STARTUP request). Frames do not have to be compressed, however, even if compression has been agreed upon (a server may only compress frames above a certain size at its discretion). A frame body should be compressed if and only if the compressed flag (see Section 2.2) is set.

As of version 2 of the protocol, the following compressions are available:

- lz4 (<https://code.google.com/p/lz4/>). In that, note that the first four bytes of the body will be the uncompressed length (followed by the compressed bytes).
- snappy (<https://code.google.com/p/snappy/>). This compression might not be available as it depends on a native lib (server-side) that might not be available on some installations.

6. Data Type Serialization Formats

This section describes the serialization formats for all CQL data types supported by Cassandra through the native protocol. These serialization formats should be used by client drivers to encode values for EXECUTE messages. Cassandra will use these formats when returning values in RESULT messages.

All values are represented as [bytes] in EXECUTE and RESULT messages. The [bytes] format includes an int prefix denoting the length of the value. For that reason, the serialization formats described here will not include a length component.

For legacy compatibility reasons, note that most non-string types support "empty" values (i.e. a value with zero length). An empty value is distinct from NULL, which is encoded with a negative length.

As with the rest of the native protocol, all encodings are big-endian.

6.1. ascii

A sequence of bytes in the ASCII range [0, 127]. Bytes with values outside of this range will result in a validation error.

6.2. bigint

An eight-byte two's complement integer.

6.3. blob

Any sequence of bytes.

6.4 boolean

A single byte. A value of 0 denotes "false"; any other value denotes "true". (However, it is recommended that a value of 1 be used to represent "true".)

6.5 date

An unsigned integer representing days with epoch centered at 2^{31} . (unix epoch January 1st, 1970).

A few examples:

0: -5877641-06-23

2^{31} : 1970-1-1

2^{32} : 5881580-07-11

6.6 decimal

The decimal format represents an arbitrary-precision number. It contains an [int] "scale" component followed by a varint encoding (see section 6.17) of the unscaled value. The encoded value represents "<unscaled>E<-scale>". In other words, "<unscaled> * $10^{(-1 * <scale>)}$ ".

6.7 double

An 8 byte floating point number in the IEEE 754 binary64 format.

6.8 duration

A duration is composed of 3 signed variable length integers ([vint]s).

The first [vint] represents a number of months, the second [vint] represents a number of days, and the last [vint] represents a number of nanoseconds.

The number of months and days must be valid 32 bits integers whereas the number of nanoseconds must be a valid 64 bits integer.

A duration can either be positive or negative. If a duration is positive all the integers must be positive or zero. If a duration is negative all the numbers must be negative or zero.

6.9 float

A 4 byte floating point number in the IEEE 754 binary32 format.

6.10 inet

A 4 byte or 16 byte sequence denoting an IPv4 or IPv6 address, respectively.

6.11 int

A 4 byte two's complement integer.

6.12 list

A [int] n indicating the number of elements in the list, followed by n elements. Each element is [bytes] representing the serialized value.

6.13 map

A [int] n indicating the number of key/value pairs in the map, followed by n entries. Each entry is composed of two [bytes] representing the key and value.

6.14 set

A [int] n indicating the number of elements in the set, followed by n elements. Each element is [bytes] representing the serialized value.

6.15 smallint

A 2 byte two's complement integer.

6.16 text

A sequence of bytes conforming to the UTF-8 specifications.

6.17 time

An 8 byte two's complement long representing nanoseconds since midnight. Valid values are in the range 0 to 8639999999999

6.18 timestamp

An 8 byte two's complement integer representing a millisecond-precision offset from the unix epoch (00:00:00, January 1st, 1970). Negative values represent a negative offset from the epoch.

6.19 timeuuid

A 16 byte sequence representing a version 1 UUID as defined by RFC 4122.

6.20 tinyint

A 1 byte two's complement integer.

6.21 tuple

A sequence of [bytes] values representing the items in a tuple. The encoding of each element depends on the data type for that position in the tuple. Null values may be represented by using length -1 for the [bytes] representation of an element.

6.22 uuid

A 16 byte sequence representing any valid UUID as defined by RFC 4122.

6.23 varchar

An alias of the "text" type.

6.24 varint

A variable-length two's complement encoding of a signed integer.

The following examples may help implementors of this spec:

Value | Encoding

Value	Encoding
0	0x00
1	0x01
127	0x7F
128	0x0080
129	0x0081
-1	0xFF
-128	0x80
-129	0xFF7F

Note that positive numbers must use a most-significant byte with a value less than 0x80, because a most-significant bit of 1 indicates a negative value. Implementors should pad positive values that have a MSB \geq 0x80 with a leading 0x00 byte.

7. User Defined Types

This section describes the serialization format for User defined types (UDT), as described in section 4.2.5.2.

A UDT value is composed of successive [bytes] values, one for each field of the UDT value (in the order defined by the type). A UDT value will generally have one value for each field of the type it represents, but it is allowed to have less values than the type has fields.

8. Result paging

The protocol allows for paging the result of queries. For that, the QUERY and EXECUTE messages have a <result_page_size> value that indicate the desired page size in CQL3 rows.

If a positive value is provided for <result_page_size>, the result set of the RESULT message returned for the query will contain at most the <result_page_size> first rows of the query result. If that first page of results contains the full result set for the query, the RESULT message (of kind `Rows`) will have the Has_more_pages flag *not* set. However, if some results are not part of the first response, the Has_more_pages flag will be set and the result will contain a <paging_state> value. In that case, the <paging_state> value should be used in a QUERY or EXECUTE message (that has the *same* query as the original one or the behavior is undefined) to retrieve the next page of results.

Only CQL3 queries that return a result set (RESULT message with a Rows `kind`) support paging. For other type of queries, the <result_page_size> value is ignored.

Note to client implementors:

- While <result_page_size> can be as low as 1, it will likely be detrimental to performance to pick a value too low. A value below 100 is probably too low for most use cases.
- Clients should not rely on the actual size of the result set returned to decide if there are more results to fetch or not. Instead, they should always check the Has_more_pages flag (unless they did not enable paging for the query obviously). Clients should also not assert that no result will have more than <result_page_size> results. While the current implementation always respects the exact value of <result_page_size>, we reserve the right to return slightly smaller or bigger pages in the future for performance reasons.
- The <paging_state> is specific to a protocol version and drivers should not send a <paging_state> returned by a node using the protocol v3 to query a node using the protocol v4 for instance.

9. Error codes

Let us recall that an ERROR message is composed of <code><message>[...] (see 4.2.1 for details). The supported error codes, as well as any additional information the message may contain after the <message> are described below:

- 0x0000 Server error: something unexpected happened. This indicates a server-side bug.
- 0x000A Protocol error: some client message triggered a protocol violation (for instance a QUERY message is sent before a STARTUP one has been sent)
- 0x0100 Authentication error: authentication was required and failed. The possible reason for failing depends on the authenticator in use,

which may or may not include more detail in the accompanying error message.

0x1000 Unavailable exception. The rest of the ERROR message body will be
<cl><required><alive>

where:

<cl> is the [consistency] level of the query that triggered the exception.

<required> is an [int] representing the number of nodes that should be alive to respect <cl>

<alive> is an [int] representing the number of replicas that were known to be alive when the request had been processed (since an unavailable exception has been triggered, there will be <alive> <<required>)

0x1001 Overloaded: the request cannot be processed because the coordinator node is overloaded

0x1002 Is_bootstrapping: the request was a read request but the coordinator node is bootstrapping

0x1003 Truncate_error: error during a truncation error.

0x1100 Write_timeout: Timeout exception during a write request. The rest of the ERROR message body will be

<cl><received><blockfor><writeType>

where:

<cl> is the [consistency] level of the query having triggered the exception.

<received> is an [int] representing the number of nodes having acknowledged the request.

<blockfor> is an [int] representing the number of replicas whose acknowledgement is required to achieve <cl>.

<writeType> is a [string] that describe the type of the write that timed out. The value of that string can be one of:

- "SIMPLE": the write was a non-batched non-counter write.
- "BATCH": the write was a (logged) batch write. If this type is received, it means the batch log has been successfully written (otherwise a "BATCH_LOG" type would have been sent instead).
- "UNLOGGED_BATCH": the write was an unlogged batch. No batch log write has been attempted.
- "COUNTER": the write was a counter write (batched or not).
- "BATCH_LOG": the timeout occurred during the write to the batch log when a (logged) batch write was requested.
- "CAS": the timeout occurred during the Compare And Set write/update.
- "VIEW": the timeout occurred when a write involves VIEW update and failure to acquire local view(MV) lock for key within timeout

- "CDC": the timeout occurred when `cdc_total_space_in_mb` is exceeded when doing a write to data tracked by `cdc`.

0x1200 `Read_timeout`: Timeout exception during a read request. The rest of the ERROR message body will be

`<cl><received><blockfor><data_present>`

where:

`<cl>` is the [consistency] level of the query having triggered the exception.

`<received>` is an [int] representing the number of nodes having answered the request.

`<blockfor>` is an [int] representing the number of replicas whose response is required to achieve `<cl>`. Please note that it is possible to have `<received> >= <blockfor>` if `<data_present>` is false. Also in the (unlikely) case where `<cl>` is achieved but the coordinator node times out while waiting for read-repair acknowledgement.

`<data_present>` is a single byte. If its value is 0, it means the replica that was asked for data has not responded. Otherwise, the value is `!= 0`.

0x1300 `Read_failure`: A non-timeout exception during a read request. The rest of the ERROR message body will be

`<cl><received><blockfor><reasonmap><data_present>`

where:

`<cl>` is the [consistency] level of the query having triggered the exception.

`<received>` is an [int] representing the number of nodes having answered the request.

`<blockfor>` is an [int] representing the number of replicas whose acknowledgement is required to achieve `<cl>`.

`<reasonmap>` is a map of endpoint to failure reason codes. This maps the endpoints of the replica nodes that failed when executing the request to a code representing the reason for the failure. The map is encoded starting with an [int] `n` followed by `n` pairs of `<endpoint><failurecode>` where `<endpoint>` is an [inetaddr] and `<failurecode>` is a [short].

`<data_present>` is a single byte. If its value is 0, it means the replica that was asked for data had not responded. Otherwise, the value is `!= 0`.

0x1400 `Function_failure`: A (user defined) function failed during execution. The rest of the ERROR message body will be

`<keyspace><function><arg_types>`

where:

`<keyspace>` is the keyspace [string] of the failed function

`<function>` is the name [string] of the failed function

`<arg_types>` [string list] one string for each argument type (as CQL type) of the failed function

0x1500 `Write_failure`: A non-timeout exception during a write request. The rest of the ERROR message body will be

`<cl><received><blockfor><reasonmap><write_type>`

where:

<cl> is the [consistency] level of the query having triggered the exception.

<received> is an [int] representing the number of nodes having answered the request.

<blockfor> is an [int] representing the number of replicas whose acknowledgement is required to achieve <cl>.

<reasonmap> is a map of endpoint to failure reason codes. This maps the endpoints of the replica nodes that failed when executing the request to a code representing the reason for the failure. The map is encoded starting with an [int] n followed by n pairs of <endpoint><failurecode> where <endpoint> is an [inetaddr] and <failurecode> is a [short].

<writeType> is a [string] that describes the type of the write that failed. The value of that string can be one of:

- "SIMPLE": the write was a non-batched non-counter write.
- "BATCH": the write was a (logged) batch write. If this type is received, it means the batch log has been successfully written (otherwise a "BATCH_LOG" type would have been sent instead).
- "UNLOGGED_BATCH": the write was an unlogged batch. No batch log write has been attempted.
- "COUNTER": the write was a counter write (batched or not).
- "BATCH_LOG": the failure occurred during the write to the batch log when a (logged) batch write was requested.
- "CAS": the failure occurred during the Compare And Set write/update.
- "VIEW": the failure occurred when a write involves VIEW update and failure to acquire local view(MV) lock for key within timeout
- "CDC": the failure occurred when cdc_total_space_in_mb is exceeded when doing a write to data tracked by cdc.

0x2000 Syntax_error: The submitted query has a syntax error.

0x2100 Unauthorized: The logged user doesn't have the right to perform the query.

0x2200 Invalid: The query is syntactically correct but invalid.

0x2300 Config_error: The query is invalid because of some configuration issue

0x2400 Already_exists: The query attempted to create a keyspace or a table that was already existing. The rest of the ERROR message body will be <ks><table> where:

<ks> is a [string] representing either the keyspace that already exists, or the keyspace in which the table that already exists is.

<table> is a [string] representing the name of the table that

already exists. If the query was attempting to create a keyspace, <table> will be present but will be the empty string.

0x2500 Unprepared: Can be thrown while a prepared statement tries to be executed if the provided prepared statement ID is not known by this host. The rest of the ERROR message body will be [short bytes] representing the unknown ID.

10. Changes from v5

Found in path(s):

* /opt/cola/permits/1337324070_1654191441.387334/0/native-protocol-1-5-1-1-jar/native_protocol_v6.spec

1.3 java-driver-query-builder 4.14.1

1.3.1 Available under license :

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

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-->

Found in path(s):

* /opt/cola/permits/1375205504_1659101023.203616/0/java-driver-query-builder-4-14-1-1-jar/META-INF/maven/com.datastax.oss/java-driver-query-builder/pom.xml

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

Manifest-Version: 1.0

Automatic-Module-Name: com.datastax.oss.driver.querybuilder

Bnd-LastModified: 1651090105199

Build-Jdk: 1.8.0_181

Built-By: mersault

Bundle-Description: A driver for Apache Cassandra(R) 2.1+ that works e

xclusively with the Cassandra Query Language version 3 (CQL3) and Cassandra's native protocol versions 3 and above.

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: DataStax Java driver for Apache Cassandra(R) - query builder

Bundle-SymbolicName: com.datastax.oss.driver.querybuilder

Bundle-Version: 4.14.1

Created-By: Apache Maven Bundle Plugin

Export-Package: com.datastax.oss.driver.api.querybuilder;uses:="com.datastax.oss.driver.api.core,com.datastax.oss.driver.api.core.cql,com.datastax.oss.driver.api.core.type,com.datastax.oss.driver.api.core.type.codec,com.datastax.oss.driver.api.core.type.codec.registry,com.datastax.oss.driver.api.querybuilder.condition,com.datastax.oss.driver.api.querybuilder.delete,com.datastax.oss.driver.api.querybuilder.insert,com.datastax.oss.driver.api.querybuilder.relation,com.datastax.oss.driver.api.querybuilder.schema,com.datastax.oss.driver.api.querybuilder.schema.compaction,com.datastax.oss.driver.api.querybuilder.select,com.datastax.oss.driver.api.querybuilder.term,com.datastax.oss.driver.api.querybuilder.truncate,com.datastax.oss.driver.api.querybuilder.update";version="4.14.1",com.datastax.oss.driver.api.querybuilder.condition;uses:="com.datastax.oss.driver.api.core,com.datastax.oss.driver.api.querybuilder,com.datastax.oss.driver.api.querybuilder.relation,com.datastax.oss.driver.api.querybuilder.term";version="4.14.1",com.datastax.oss.driver.api.querybuilder.delete;uses:="com.datastax.oss.driver.api.core,com.datastax.oss.driver.api.querybuilder,com.datastax.oss.driver.api.querybuilder.condition,com.datastax.oss.driver.api.querybuilder.relation,com.datastax.oss.driver.api.querybuilder.select,com.datastax.oss.driver.api.querybuilder.term";version="4.14.1",com.datastax.oss.driver.api.querybuilder.insert;uses:="com.datastax.oss.driver.api.core,com.datastax.oss.driver.api.core.type.codec,com.datastax.oss.driver.api.core.type.codec.registry,com.datastax.oss.driver.api.querybuilder,com.datastax.oss.driver.api.querybuilder.term";version="4.14.1",com.datastax.oss.driver.api.querybuilder.relation;uses:="com.datastax.oss.driver.api.core,com.datastax.oss.driver.api.querybuilder,com.datastax.oss.driver.api.querybuilder.term";version="4.14.1",com.datastax.oss.driver.api.querybuilder.schema;uses:="com.datastax.oss.driver.api.core,com.datastax.oss.driver.api.core.metadata.schema,com.datastax.oss.driver.api.core.type,com.datastax.oss.driver.api.querybuilder,com.datastax.oss.driver.api.querybuilder.relation,com.datastax.oss.driver.api.querybuilder.schema.compaction,com.datastax.oss.driver.api.querybuilder.term";version="4.14.1",com.datastax.oss.driver.api.querybuilder.schema.compaction;uses:="com.datastax.oss.driver.api.querybuilder.schema";version="4.14.1",com.datastax.oss.driver.api.querybuilder.select;uses:="com.datastax.oss.driver.api.core,com.datastax.oss.driver.api.core.metadata.schema,com.datastax.oss.driver.api.core.type,com.datastax.oss.driver.api.core.type.codec,com.datastax.oss.driver.api.core.type.codec.registry,com.datastax.oss.driver.api.querybuilder,co

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Import-Package: com.datastax.dse.driver.api.querybuilder.schema,com.datastax.dse.driver.internal.querybuilder.schema,com.datastax.oss.driver.api.core;version="[4.14,5)",com.datastax.oss.driver.api.core.cql;version="[4.14,5)",com.datastax.oss.driver.api.core.metadata.schema;version="[4.14,5)",com.datastax.oss.driver.api.core.metadata.token;version="[4.14,5)",com.datastax.oss.driver.api.core.type;version="[4.14,5)",com.datastax.oss.driver.api.core.type.codec;version="[4.14,5)",com.datastax.oss.driver.api.core.type.codec.registry;version="[4.14,5)",com.datastax.oss.driver.api.querybuilder,com.datastax.oss.driver.api.querybuilder.condition,com.datastax.oss.driver.api.querybuilder.delete,com.datastax.oss.driver.api.querybuilder.insert,com.datastax.oss.driver.api.querybuilder.relation,com.datastax.oss.driver.api.querybuilder.schema,com.datastax.oss.driver.api.querybuilder.schema.compaction,com.datastax.oss.driver.api.querybuilder.select,com.datastax.oss.driver

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Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501

Found in path(s):

* /opt/cola/permits/1375205504_1659101023.203616/0/java-driver-query-builder-4-14-1-1-jar/META-INF/MANIFEST.MF

1.4 simpleclient 0.15.0

1.4.1 Available under license :

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1.5 netty-resolver-dns 4.1.84.Final

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* /opt/cola/permits/1449816688_1666612571.7673678/0/netty-resolver-dns-4-1-84-final-sources-jar/io/netty/resolver/dns/NoopDnsCache.java
* /opt/cola/permits/1449816688_1666612571.7673678/0/netty-resolver-dns-4-1-84-final-sources-jar/io/netty/resolver/dns/RoundRobinDnsAddressResolverGroup.java
* /opt/cola/permits/1449816688_1666612571.7673678/0/netty-resolver-dns-4-1-84-final-sources-jar/io/netty/resolver/dns/DnsCache.java
* /opt/cola/permits/1449816688_1666612571.7673678/0/netty-resolver-dns-4-1-84-final-sources-jar/io/netty/resolver/dns/DefaultDnsCache.java

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* /opt/cola/permits/1449816688_1666612571.7673678/0/netty-resolver-dns-4-1-84-final-sources-jar/io/netty/resolver/dns/PreferredAddressTypeComparator.java
* /opt/cola/permits/1449816688_1666612571.7673678/0/netty-resolver-dns-4-1-84-final-sources-jar/io/netty/resolver/dns/TcpDnsQueryContext.java

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* /opt/cola/permits/1449816688_1666612571.7673678/0/netty-resolver-dns-4-1-84-final-sources-jar/io/netty/resolver/dns/DnsNameResolverBuilder.java
* /opt/cola/permits/1449816688_1666612571.7673678/0/netty-resolver-dns-4-1-84-final-sources-jar/io/netty/resolver/dns/DefaultDnsServerAddresses.java
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* /opt/cola/permits/1449816688_1666612571.7673678/0/netty-resolver-dns-4-1-84-final-sources-jar/io/netty/resolver/dns/DnsQueryContextManager.java

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* /opt/cola/permits/1449816688_1666612571.7673678/0/netty-resolver-dns-4-1-84-final-sources-jar/io/netty/resolver/dns/UnixResolverOptions.java

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* /opt/cola/permits/1449816688_1666612571.7673678/0/netty-resolver-dns-4-1-84-final-sources-jar/io/netty/resolver/dns/DefaultDnsCnameCache.java
* /opt/cola/permits/1449816688_1666612571.7673678/0/netty-resolver-dns-4-1-84-final-sources-jar/io/netty/resolver/dns/DnsRecordResolveContext.java
* /opt/cola/permits/1449816688_1666612571.7673678/0/netty-resolver-dns-4-1-84-final-sources-jar/io/netty/resolver/dns/NameServerComparator.java
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* /opt/cola/permits/1449816688_1666612571.7673678/0/netty-resolver-dns-4-1-84-final-sources-jar/io/netty/resolver/dns/DnsAddressDecoder.java
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 - * /opt/cola/permits/1449816688_1666612571.7673678/0/netty-resolver-dns-4-1-84-final-sources-jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
 - * /opt/cola/permits/1449816688_1666612571.7673678/0/netty-resolver-dns-4-1-84-final-sources-jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserver.java
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1.6 servlet-api 4.0.0

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* /opt/cola/permits/1681297276_1684484022.2676213/0/servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/ServletURIPool.java

* /opt/cola/permits/1681297276_1684484022.2676213/0/servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/HttpServlet.java

* /opt/cola/permits/1681297276_1684484022.2676213/0/servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/AbstractHttpServlet.java

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1.7 commons-fileupload 1.4

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1.8 config 1.4.1

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1.9 spring-beans 5.3.23

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1.11 asm-commons 9.2

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/**  
 * Constructs a new {@link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.  
 * Instead, they must use the {@link #LocalVariablesSorter(int, int, String, MethodVisitor)}  
 * version.  
 *  
 * @param access access flags of the adapted method.  
 * @param descriptor the method's descriptor (see {@link Type}).  
 * @param methodVisitor the method visitor to which this adapter delegates calls.  
 * @throws IllegalStateException if a subclass calls this constructor.  
 */
```

Found in path(s):

```
*/opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-  
jar/org/objectweb/asm/commons/LocalVariablesSorter.java
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/**
 * Constructs 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 methodVisitor 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 descriptor the method's descriptor (see { @link Type}).
 * @throws IllegalStateException if a subclass calls this constructor.
 */
```

Found in path(s):

```
*/opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
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/**

* Constructs a new { @link SerialVersionUIDAdder}. <i>Subclasses must not use this

* constructor</i>. Instead, they must use the { @link #SerialVersionUIDAdder(int, ClassVisitor)}

* version.

*

* @param classVisitor a { @link ClassVisitor} to which this visitor will delegate calls.

* @throws IllegalStateException If a subclass calls this constructor.

*/

Found in path(s):

* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
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```
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/SignatureRemapper.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/ModuleTargetAttribute.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/ModuleResolutionAttribute.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/ClassRemapper.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/ModuleRemapper.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/MethodRemapper.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/FieldRemapper.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/RecordComponentRemapper.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
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/**
 * Constructs a new { @link AnnotationRemapper}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the { @link #AnnotationRemapper(int,String,AnnotationVisitor,Remapper)}
 * version.
 *
 * @param descriptor the descriptor of the visited annotation. May be { @literal null}.
 * @param annotationVisitor the annotation visitor this remapper must delegate to.
 * @param remapper the remapper to use to remap the types in the visited annotation.
 */
```

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```
*/opt/cola/permits/1448900796_1666392188.4202733/0/asm-commons-9-2-sources-3-
jar/org/objectweb/asm/commons/AnnotationRemapper.java
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1.12 springfox-spi 2.9.2

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*
*
*/

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* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/RequestMappingContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/ParameterExpansionContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/schema/contexts/ModelContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/ParameterContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/OperationModelContextsBuilder.java

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jar/springfox/documentation/spi/service/ApiListingScannerPlugin.java
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jar/springfox/documentation/spi/service/contexts/Orderings.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
jar/springfox/documentation/spi/service/contexts/OperationContext.java
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* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/DocumentationContextBuilder.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/service/PathDecorator.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/ApiListingBuilderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/OperationModelsProviderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/ApiSelector.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/schema/TypeNameProviderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/DocumentationContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/service/PathAdjuster.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/ParameterBuilderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/schema/AlternateTypeProvider.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/DocumentationType.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/Defaults.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/ExpandedParameterBuilderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/OperationBuilderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/schema/EnumTypeDeterminer.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/PathContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-

jar/springfox/documentation/spi/service/contexts/ApiListingContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
jar/springfox/documentation/spi/service/contexts/SecurityContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
jar/springfox/documentation/spi/service/contexts/SecurityContextBuilder.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
jar/springfox/documentation/spi/service/ResourceGroupingStrategy.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
jar/springfox/documentation/spi/schema/GenericTypeNamingStrategy.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
jar/springfox/documentation/spi/schema/ModelPropertyBuilderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
jar/springfox/documentation/spi/schema/contexts/ModelPropertyContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
jar/springfox/documentation/spi/service/DefaultsProviderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
jar/springfox/documentation/spi/schema/ModelBuilderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
jar/springfox/documentation/spi/service/DocumentationPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
jar/springfox/documentation/spi/service/RequestHandlerProvider.java
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* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
jar/springfox/documentation/spi/service/ParameterMetadataAccessor.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
jar/springfox/documentation/spi/schema/SyntheticModelProviderPlugin.java

1.13 jctools-core 3.1.0

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```
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpMCAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MessagePassingQueueUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpMCAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeJvmInfo.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpSCUnboundedXaddArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/spec/Preference.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpSCAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MessagePassingQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SupportsIterator.java
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- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscGrowableArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseSpSCLinkedAtomicArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/AtomicQueueFactory.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCLinkedAtomicQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpMCArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/AbstractEntry.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddChunk.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscChunkedArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashMapLong.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeLongArrayAccess.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashMap.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingIdentityHashMap.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseLinkedQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/InternalAPI.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashSet.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/Pow2.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/ConcurrentQueueSpec.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/ConcurrentAutoTable.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedXaddChunk.java

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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/LinkedQueueNode.java

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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java

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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeRefArrayAccess.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscCompoundQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpSCChunkedArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpSCArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/QueueFactory.java

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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeAccess.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCGrowableAtomicArrayQueue.java

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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/package-info.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/BaseSpSCLinkedListArrayQueue.java

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  </repository>
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<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

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  <license>
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  <tag>HEAD</tag>
</scm>

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  <developer>
    <url>https://github.com/nitsanw</url>
  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>
    <url>https://github.com/kay</url>
  </developer>

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<developer>
  <url>https://github.com/franz1981</url>
</developer>
</developers>

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1.14 feign-form 3.8.0

1.14.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/META-INF/maven/io.github.openfeign.form/feign-form/pom.xml
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* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/FormEncoder.java
* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/FormProperty.java
* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/util/PojoUtil.java
* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/ContentProcessor.java
* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/multipart/SingleFileWriter.java
* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/multipart/PojoWriter.java
* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/util/CharsetUtil.java
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* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/ContentType.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/MultipartFormContentProcessor.java
* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/multipart/Writer.java
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* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/UrlencodedFormContentProcessor.java

1.15 jackson-module-parameter-names 2.13.4

1.15.1 Available under license :

Apache-2.0

1.16 classmate 1.5.1

1.16.1 Available under license :

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

Other developers who have contributed code are:

* Brian Langel

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1.17 log4j-slf4j-impl 2.17.2

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1.18 swagger-annotations 1.5.21

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 */
```

Found in path(s):

```
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-
jar/io/swagger/annotations/Contact.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-
jar/io/swagger/annotations/ApiModelProperty.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-
jar/io/swagger/annotations/ApiResponse.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-
jar/io/swagger/annotations/ApiModel.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-
jar/io/swagger/annotations/Authorization.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-
jar/io/swagger/annotations/ApiParam.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-
jar/io/swagger/annotations/Extension.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-
jar/io/swagger/annotations/ExampleProperty.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-
jar/io/swagger/annotations/Example.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-
jar/io/swagger/annotations/License.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-
```

jar/io/swagger/annotations/Tag.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-jar/io/swagger/annotations/ApiResponse.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-jar/io/swagger/annotations/ApiImplicitParams.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-jar/io/swagger/annotations/AuthorizationScope.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-jar/io/swagger/annotations/ResponseHeader.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-jar/io/swagger/annotations/ApiImplicitParam.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-jar/io/swagger/annotations/ApiOperation.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-jar/io/swagger/annotations/Api.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-jar/io/swagger/annotations/Info.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-jar/io/swagger/annotations/ExtensionProperty.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-jar/io/swagger/annotations/ExternalDocs.java
* /opt/cola/permits/1263517322_1643662912.56/0/swagger-annotations-1-5-21-sources-jar/io/swagger/annotations/SwaggerDefinition.java

1.19 disruptor 3.4.1

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1.20 spring-plugin-metadata 1.2.0.RELEASE

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1.21 log4j-api 2.17.1

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1.22 java-driver-core 4.14.1

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1.23 spring-data-cassandra 3.4.6

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1.24 latencyutils 2.0.3

1.25 simpleclient_tracer_otel 0.15.0

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1.26 simpleclient_tracer_common 0.15.0

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Manifest-Version: 1.0

Bnd-LastModified: 1644098817942

Build-Jdk: 11.0.13

Built-By: fabian

Bundle-Description: The Prometheus Java Suite: Client Metrics, Exposition, and Examples

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Prometheus Java Span Context Supplier - Common

Bundle-SymbolicName: io.prometheus.simpleclient_tracer_common

Bundle-Version: 0.15.0

Created-By: Apache Maven Bundle Plugin

Export-Package: io.prometheus.client.exemplars.tracer.common;version="0.15.0"

Tool: Bnd-2.1.0.20130426-122213

Found in path(s):

* /opt/cola/permits/1362667286_1657728055.6656199/0/simpleclient-tracer-common-0-15-0-2-jar/META-INF/MANIFEST.MF

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1.27 jackson-datatype-jdk8 2.13.4

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1.28 guava 20.0

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1.29 metrics 4.2.12

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1.30 springfox-swagger-common 2.9.2

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* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/schema/ApiModelProperty.java

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* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/web/OperationsSorter.java

* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/web/SecurityConfigurationBuilder.java

* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/web/UiConfigurationBuilder.java

* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/web/DocExpansion.java

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* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/common/SwaggerPluginSupport.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/configuration/SwaggerCommonConfiguration.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/readers/operation/ResponseHeaders.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/web/ApiKeyVehicle.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/readers/parameter/ParameterAnnotationReader.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/web/SwaggerResourcesProvider.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/schema/ApiModelBuilder.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/web/InMemorySwaggerResourcesProvider.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/web/ClassOrApiAnnotationResourceGrouping.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/schema/ApiModelTypeNameProvider.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/web/SwaggerApiListingReader.java

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* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/common/XForwardPrefixPathAdjuster.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/web/SecurityConfiguration.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/web/SwaggerResource.java
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* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/web/ApiResourceController.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-

jar/springfox/documentation/swagger/readers/operation/SwaggerOperationResponseClassReader.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-
jar/springfox/documentation/swagger/readers/operation/SwaggerResponseMessageReader.java
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jar/springfox/documentation/swagger/readers/operation/OperationHiddenReader.java  
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-  
jar/springfox/documentation/swagger/readers/operation/SwaggerOperationTagsReader.java  
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-  
jar/springfox/documentation/swagger/annotations/Annotations.java  
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-  
jar/springfox/documentation/swagger/readers/operation/VendorExtensionsReader.java  
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-  
jar/springfox/documentation/swagger/readers/operation/OperationNotesReader.java  
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-  
jar/springfox/documentation/swagger/readers/operation/OperationPositionReader.java  
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-  
jar/springfox/documentation/swagger/readers/operation/OperationAuthReader.java  
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-  
jar/springfox/documentation/swagger/readers/operation/SwaggerMediaTypeReader.java  
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-  
jar/springfox/documentation/swagger/readers/operation/OperationSummaryReader.java  
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-  
jar/springfox/documentation/swagger/readers/operation/OperationHttpMethodReader.java  
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-  
jar/springfox/documentation/swagger/readers/operation/SwaggerOperationModelsProvider.java  
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-
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jar/springfox/documentation/swagger/readers/operation/OperationNicknameIntoUniqueIdReader.java
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jar/springfox/documentation/swagger/common/SpringVersionCapability.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-
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jar/springfox/documentation/swagger/readers/parameter/SwaggerExpandedParameterBuilder.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-
jar/springfox/documentation/swagger/readers/parameter/ApiParamParameterBuilder.java

1.31 spring-context 5.3.23

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- * /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/scanners/ApiDocumentationScanner.java
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- * /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/scanners/MediaTypeReader.java
- * /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/readers/operation/OperationResponseClassReader.java
- * /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/plugins/DocumentationPluginsManager.java
- * /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/readers/operation/ResponseMessagesReader.java
- * /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/SpringfoxWebMvcConfiguration.java

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* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/plugins/ResolvedMethodParameterEquivalence.java
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* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/PropertySourcedRequestMappingHandlerMapping.java
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* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/readers/parameter/ParameterTypeDeterminer.java
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1.34 netty-transport-native-unix-common

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* /opt/cola/permits/1448934372_1666395816.2846098/0/netty-transport-native-unix-common-4-1-84-final-sources-jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1448934372_1666395816.2846098/0/netty-transport-native-unix-common-4-1-84-final-sources-jar/io/netty/channel/unix/PeerCredentials.java
* /opt/cola/permits/1448934372_1666395816.2846098/0/netty-transport-native-unix-common-4-1-84-final-sources-jar/netty_unix_util.h
* /opt/cola/permits/1448934372_1666395816.2846098/0/netty-transport-native-unix-common-4-1-84-final-sources-jar/netty_unix_util.c
* /opt/cola/permits/1448934372_1666395816.2846098/0/netty-transport-native-unix-common-4-1-84-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1448934372_1666395816.2846098/0/netty-transport-native-unix-common-4-1-84-final-sources-jar/netty_unix_limits.c
* /opt/cola/permits/1448934372_1666395816.2846098/0/netty-transport-native-unix-common-4-1-84-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1448934372_1666395816.2846098/0/netty-transport-native-unix-common-4-1-84-final-sources-jar/netty_unix_limits.h

1.35 spring-cloud-openfeign-core 3.0.1

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1.36 redisson 3.20.0

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1.37 springfox-core 2.9.2

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```
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/service/SecurityScheme.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/service/OAuth.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/builders/OperationBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/service/ApiKey.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/service/BasicAuth.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/service/ResolvedMethodParameter.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/service/Parameter.java
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* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/builders/PathSelectors.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/service/ObjectVendorExtension.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/builders/ModelPropertyBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/service/AuthorizationCodeGrant.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/schema/WildcardType.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/service/AuthorizationScope.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/builders/DocumentationBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/builders/BuilderDefaults.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/builders/AuthorizationScopeBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/service/ApiInfo.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/builders/AuthorizationCodeGrantBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/service/CredentialsGrant.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/schema/Entry.java
```

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/AllowableValues.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/schema/ModelReference.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/annotations/Cacheable.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/ModelBuilder.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/schema/ModelProperty.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/ApiListingReference.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/TokenRequestEndpointBuilder.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/OperationNameGenerator.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/Parameters.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/annotations/ApiIgnore.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/Tags.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/ApiInfoBuilder.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/schema/ClassSupport.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/AllowableRangeValues.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/Tag.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/VendorExtension.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/TokenRequestEndpoint.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/ClientCredentialsGrant.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/ResourceGroup.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/AllowableListValues.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/ResourceOwnerPasswordCredentialsGrant.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/ResourceListingBuilder.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/ApiListing.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/ResponseMessage.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/Documentation.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/Operation.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/StringVendorExtension.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/ApiDescription.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/ImplicitGrantBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/GrantType.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/PathProvider.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/OAuthBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/ApiDescriptionBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/schema/Xml.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/TokenEndpoint.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/LoginEndpointBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/SecurityReference.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/annotations/Incubating.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/ResourceListing.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/MediaTypes.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/schema/AlternateTypeRules.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/ImplicitGrant.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/Contact.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/schema/ModelRef.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/schema/Model.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/schema/Enums.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/ApiListingBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/LoginEndpoint.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/schema/AlternateTypeRule.java
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* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/ParameterBuilder.java

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* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/AlternateTypePropertyBuilder.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/AlternateTypeBuilder.java

* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/schema/AlternateTypeRuleConvention.java

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jar/springfox/documentation/service/Header.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
jar/springfox/documentation/RequestHandlerKey.java
```

1.38 springfox-schema 2.9.2

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jar/springfox/documentation/schema/ModelReferenceProvider.java
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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/TypeNameExtractor.java
 * /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/ObjectMapperBeanPropertyNamingStrategy.java
 * /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/ModelNameContext.java
 * /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/DefaultGenericTypeNamingStrategy.java
 * /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/DefaultModelDependencyProvider.java
 * /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/DefaultModelProvider.java
 * /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/FactoryMethodProvider.java
 * /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/plugins/SchemaPluginsManager.java
 * /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/Annotations.java
 * /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/CodeGenGenericTypeNamingStrategy.java
 * /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/configuration/ModelsConfiguration.java
 * /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/bean/Accessors.java
 * /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/field/FieldModelProperty.java
 * /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/BaseModelProperty.java
 * /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-

jar/springfox/documentation/schema/CachingModelProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/ResolvedTypes.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/property/bean/BeanModelProperty.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/Collections.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/property/ModelPropertiesProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/property/CachingModelPropertiesProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/property/BeanPropertyNamingStrategy.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/property/bean/AccessorsProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/ModelDependencyProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/property/PojoPropertyBuilderFactory.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/ModelProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/CachingModelDependencyProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/property/field/FieldProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/property/BeanPropertyDefinitions.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/property/ModelProperty.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/configuration/ObjectMapperConfigured.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/DefaultTypeNameProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/Maps.java

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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/plugins/XmlModelPlugin.java
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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/JacksonEnumTypeDeterminer.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/OptimizedModelPropertiesProvider.java
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jar/springfox/documentation/schema/plugins/PropertyDiscriminatorBasedInheritancePlugin.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/JaxbPresentInClassPathCondition.java
```

1.39 reactive-streams 1.0.4

1.39.1 Available under license :

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1.40 tomcat-coyote 9.0.68

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1.41 spring-security-config 5.7.4

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* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/annotation/web/configurers/oauth2/server/resource/OAuth2ResourceServer
Configurer.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/web/server/ServerHttpSecurity.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/annotation/web/builders/FilterOrderRegistration.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
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* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
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* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-

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* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/http/WellKnownChangePasswordBeanDefinitionParser.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/web/server/ServerHeadersDsl.kt
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/web/servlet/RememberMeDsl.kt
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/annotation/method/configuration/MethodSecuritySelector.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/web/servlet/HeadersDsl.kt
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/web/servlet/CorsDsl.kt
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/annotation/web/configurers/saml2/Saml2LogoutConfigurer.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/annotation/web/configuration/SecurityReactorContextConfiguration.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/web/servlet/headers/CrossOriginEmbedderPolicyDsl.kt
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/authentication/AuthenticationManagerBeanDefinitionParser.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/http/HeadersBeanDefinitionParser.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
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- * /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-jar/org/springframework/security/config/ldap/ContextSourceSettingPostProcessor.java
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 - * /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-jar/org/springframework/security/config/annotation/authentication/configuration/GlobalAuthenticationConfigurerAdapter.java
 - * /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-jar/org/springframework/security/config/provisioning/UserDetailsManagerResourceFactoryBean.java
 - * /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-jar/org/springframework/security/config/web/server/AbstractServerWebExchangeMatcherRegistry.java
 - * /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-jar/org/springframework/security/config/core/userdetails/ReactiveUserDetailsServiceResourceFactoryBean.java
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 - * /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-jar/org/springframework/security/config/annotation/method/configuration/ReactiveMethodSecuritySelector.java
 - * /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-jar/org/springframework/security/config/core/userdetails/UserDetailsMapFactoryBean.java
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- * /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-jar/org/springframework/security/config/ldap/LdapBindAuthenticationManagerFactory.java

* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-jar/org/springframework/security/config/annotation/web/configuration/HttpSecurityConfiguration.java

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* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-jar/org/springframework/security/config/ldap/EmbeddedLdapServerContextSourceFactoryBean.java

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jar/org/springframework/security/config/annotation/method/configuration/PrePostMethodSecurityConfiguration.java
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* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/annotation/web/configurers/ServletApiConfigurer.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/annotation/configuration/AutowiredBeanFactoryObjectPostProcessor.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/annotation/web/configurers/UrlAuthorizationConfigurer.java
```

```
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/annotation/web/configurers/oauth2/client/OAuth2ClientConfigurerUtils.java
a
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/method/MethodSecurityBeanDefinitionParser.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/annotation/method/configuration/MethodSecurityMetadataSourceAdvisorR
egistrar.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/http/FormLoginBeanDefinitionParser.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/annotation/method/configuration/GlobalMethodSecuritySelector.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/authentication/AuthenticationManagerFactoryBean.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/http/CorsBeanDefinitionParser.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/websocket/WebSocketMessageBrokerSecurityBeanDefinitionParser.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/annotation/web/configurers/SecurityContextConfigurer.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/annotation/web/configurers/CorsConfigurer.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/core/userdetails/UserDetailsResourceFactoryBean.java
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/method/GlobalMethodSecurityBeanDefinitionParser.java
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```

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```
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/http/OrderDecorator.java
```

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```

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```
* /opt/cola/permits/1452464188_1666797219.426522/0/spring-security-config-5-7-4-sources-
jar/org/springframework/security/config/annotation/rsocket/RSocketSecurity.java
```

1.42 simpleclient_tracer_otel_agent 0.15.0

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```
Manifest-Version: 1.0
Bnd-LastModified: 1644098835491
Build-Jdk: 11.0.13
Built-By: fabian
Bundle-Description: The Prometheus Java Suite: Client Metrics, Exposition, and Examples
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Span Context Supplier - OpenTelemetry Agent
Bundle-SymbolicName: io.prometheus.simpleclient_tracer_otel_agent
Bundle-Version: 0.15.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.exemplars.tracer.otel_agent;uses:="
io.prometheus.client.exemplars.tracer.common";version="0.15.0"
Import-Package: io.opentelemetry.api.trace,io.prometheus.client.exemplars
.tracer.common;version="[0.15,1)"
Tool: Bnd-2.1.0.20130426-122213
```

Found in path(s):

```
* /opt/cola/permits/1362667461_1657728042.0528543/0/simpleclient-tracer-otel-agent-0-15-0-2-jar/META-
```

INF/MANIFEST.MF

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* /opt/cola/permits/1362667461_1657728042.0528543/0/simpleclient-tracer-otel-agent-0-15-0-2-jar/META-INF/maven/io.prometheus/simpleclient_tracer_otel_agent/pom.xml

1.43 asm-tree 9.2

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<!--

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* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-jar/org/objectweb/asm/tree/package.html

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```
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-  
jar/org/objectweb/asm/tree/AnnotationNode.java  
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-  
jar/org/objectweb/asm/tree/LocalVariableNode.java  
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-  
jar/org/objectweb/asm/tree/InsnNode.java  
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-  
jar/org/objectweb/asm/tree/MethodInsnNode.java  
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-  
jar/org/objectweb/asm/tree/ClassNode.java  
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-  
jar/org/objectweb/asm/tree/FrameNode.java  
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-  
jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java  
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-  
jar/org/objectweb/asm/tree/LabelNode.java  
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-  
jar/org/objectweb/asm/tree/MethodNode.java  
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-  
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java  
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-  
jar/org/objectweb/asm/tree/ModuleOpenNode.java  
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-  
jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java  
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-  
jar/org/objectweb/asm/tree/ModuleProvideNode.java  
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-  
jar/org/objectweb/asm/tree/InnerClassNode.java  
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-  
jar/org/objectweb/asm/tree/LineNumberNode.java  
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-  
jar/org/objectweb/asm/tree/RecordComponentNode.java  
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
```

jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/ModuleNode.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/ModuleRequireNode.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/ModuleExportNode.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/IncnInsnNode.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/Util.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1448900804_1666392186.5691755/0/asm-tree-9-2-sources-3-
jar/org/objectweb/asm/tree/FieldInsnNode.java

1.44 lettuce-core 6.1.10.RELEASE

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\$Id: IllegalNameException.java,v 1.14 2007/11/10 05:28:59 jhunter Exp \$

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* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/DescendantIterator.java

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

/*--

\$Id: Attribute.java,v 1.56 2007/11/10 05:28:58 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/Attribute.java

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\$Id: XPath.java,v 1.17 2007/11/10 05:29:02 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/xpath/XPath.java

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/*--

\$Id: JDOMParseException.java,v 1.8 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/input/JDOMParseException.java

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

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\$Id: EntityRef.java,v 1.22 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/EntityRef.java

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/*--

\$Id: DOMOutputter.java,v 1.43 2007/11/10 05:29:01 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/output/DOMOutputter.java

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/*--

\$Id: NamespaceKey.java,v 1.2 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/NamespaceKey.java

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/*--

\$Id: DefaultJDOMFactory.java,v 1.7 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: JAXPParserFactory.java,v 1.6 2007/11/10 05:29:00 jhunter Exp \$

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* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/input/JAXPParserFactory.java
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\$Id: AttributeList.java,v 1.24 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: JDOMFactory.java,v 1.9 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: Text.java,v 1.25 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: ElementFilter.java,v 1.20 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: SAXOutputter.java,v 1.40 2007/11/10 05:29:01 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/output/SAXOutputter.java

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

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\$Id: Format.java,v 1.13 2007/11/10 05:29:01 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/output/Format.java

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\$Id: ContentList.java,v 1.42 2007/11/10 05:28:58 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/ContentList.java

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\$Id: NegateFilter.java,v 1.4 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/filter/NegateFilter.java
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/*--

\$Id: BuilderErrorHandler.java,v 1.13 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/input/BuilderErrorHandler.java

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\$Id: EscapeStrategy.java,v 1.4 2007/11/10 05:29:01 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/output/EscapeStrategy.java

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\$Id: JDOMLocator.java,v 1.4 2007/11/10 05:29:01 jhunter Exp \$

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* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/output/JDOMLocator.java

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\$Id: IllegalDataException.java,v 1.14 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: AbstractDOMAdapter.java,v 1.21 2007/11/10 05:28:59 jhunter Exp \$

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* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/adapters/AbstractDOMAdapter.java

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\$Id: DataConversionException.java,v 1.14 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: JDOMSource.java,v 1.20 2007/11/10 05:29:02 jhunter Exp \$

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Found in path(s):

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\$Id: DOMBuilder.java,v 1.60 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

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\$Id: XercesDOMAdapter.java,v 1.19 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-

jar/org/jdom/adapters/XercesDOMAdapter.java

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

/*--

\$Id: Parent.java,v 1.13 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/Parent.java

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\$Id: AndFilter.java,v 1.4 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/filter/AndFilter.java

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\$Id: XSLTransformException.java,v 1.4 2007/11/10 05:29:02 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/transform/XSLTransformException.java

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\$Id: DocType.java,v 1.32 2007/11/10 05:28:58 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/DocType.java

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/*--

\$Id: NamespaceStack.java,v 1.14 2007/11/10 05:29:01 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/output/NamespaceStack.java

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\$Id: IllegalTargetException.java,v 1.15 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/IllegalTargetException.java

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\$Id: SAXHandler.java,v 1.73 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/input/SAXHandler.java

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\$Id: ProcessingInstruction.java,v 1.47 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: Element.java,v 1.159 2007/11/14 05:02:08 jhunter Exp \$

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\$Id: TextBuffer.java,v 1.10 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

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\$Id: Content.java,v 1.6 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: SAXBuilder.java,v 1.92 2007/11/10 05:29:00 jhunter Exp \$

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* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/input/SAXBuilder.java

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/*--

\$Id: OracleV1DOMAdapter.java,v 1.20 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/adapters/OracleV1DOMAdapter.java

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\$Id: Verifier.java,v 1.55 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/Verifier.java

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\$Id: OrFilter.java,v 1.5 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/filter/OrFilter.java

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/*--

\$Id: OracleV2DOMAdapter.java,v 1.19 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

```
* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-  
jar/org/jdom/adapters/OracleV2DOMAdapter.java
```

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\$Id: XSLTransformer.java,v 1.5 2007/11/14 04:36:54 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/transform/XSLTransformer.java

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/*--

\$Id: ContentFilter.java,v 1.15 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/filter/ContentFilter.java

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\$Id: UncheckedJDOMFactory.java,v 1.4 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: FilterIterator.java,v 1.6 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: CrimsonDOMAdapter.java,v 1.17 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: XMLOutputter.java,v 1.116 2007/11/10 05:29:01 jhunter Exp \$

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\$Id: AbstractFilter.java,v 1.6 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/filter/AbstractFilter.java

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\$Id: JDOMException.java,v 1.24 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: IllegalAddException.java,v 1.26 2007/11/10 05:28:59 jhunter Exp \$

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* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/IllegalAddException.java
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/*--

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\$Id: Namespace.java,v 1.43 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: JDOMResult.java,v 1.24 2007/11/10 05:29:02 jhunter Exp \$

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* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/transform/JDOMResult.java

1.47 spring-security-web 5.7.4

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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/authentication/www/BasicAuthenticationFilter.java

* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-

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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-

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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
jar/org/springframework/security/web/session/HttpSessionDestroyedEvent.java
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
jar/org/springframework/security/web/authentication/www/NonceExpiredException.java
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
jar/org/springframework/security/web/access/channel/RetryWithHttpEntryPoint.java
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jar/org/springframework/security/web/authentication/AnonymousAuthenticationFilter.java
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
jar/org/springframework/security/web/session/HttpSessionCreatedEvent.java
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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jar/org/springframework/security/web/authentication/logout/SecurityContextLogoutHandler.java
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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jar/org/springframework/security/web/access/WebInvocationPrivilegeEvaluator.java
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-

jar/org/springframework/security/web/savedrequest/Enumerator.java

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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-

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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-

jar/org/springframework/security/web/server/util/matcher/AndServerWebExchangeMatcher.java

* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-

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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-

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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-

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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-

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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-

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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-

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jar/org/springframework/security/web/server/authentication/AuthenticationConverterServerWebExchangeMatcher.j
ava
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
jar/org/springframework/security/web/server/authorization/AuthorizationWebFilter.java
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/jackson2/DefaultCsrfServerTokenMixin.java
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/jackson2/PreAuthenticatedAuthenticationTokenDeserializer.java
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/access/RequestMatcherDelegatingWebInvocationPrivilegeEvaluator.java
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jar/org/springframework/security/web/server/authentication/logout/WebSessionServerLogoutHandler.java
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jar/org/springframework/security/web/reactive/result/method/annotation/AuthenticationPrincipalArgumentResolver.
java
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jar/org/springframework/security/web/debug/DebugFilter.java
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
jar/org/springframework/security/web/header/writers/CrossOriginResourcePolicyHeaderWriter.java
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/RequestMatcherRedirectFilter.java
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/csrf/CsrfWebFilter.java
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/header/CrossOriginResourcePolicyServerHttpHeadersWriter.java
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- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/jackson2/CookieDeserializer.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/jackson2/DefaultCsrfTokenMixin.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/jackson2/WebServletJackson2Module.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/session/SessionInformationExpiredStrategy.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/jackson2/PreAuthenticatedAuthenticationTokenMixin.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/jackson2/WebAuthenticationDetailsMixin.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/jackson2/SavedCookieMixin.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/jackson2/WebJackson2Module.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/jackson2/DefaultSavedRequestMixin.java

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 * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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 * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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 * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-

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jar/org/springframework/security/web/header/writers/ReferrerPolicyHeaderWriter.java
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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jar/org/springframework/security/web/header/writers/XXssProtectionHeaderWriter.java
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
jar/org/springframework/security/web/access/expression/DelegatingEvaluationContext.java
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
jar/org/springframework/security/web/csrf/CookieCsrfTokenRepository.java
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* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/util/matcher/RequestMatcherEditor.java
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- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/ServerRedirectStrategy.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/csrf/ServerCsrfTokenRepository.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/authorization/HttpStatusServerAccessDeniedHandler.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/authorization/ServerAccessDeniedHandler.java
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- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/header/StrictTransportSecurityServerHttpHeadersWriter.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/header/CacheControlServerHttpHeadersWriter.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/ui/LogoutPageGeneratingWebFilter.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/util/matcher/ServerWebExchangeMatchers.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/util/matcher/ServerWebExchangeMatcher.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/header/XFrameOptionsServerHttpHeadersWriter.java
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- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/csrf/CsrfToken.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/WebFilterExchange.java
- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/authentication/ServerAuthenticationEntryPointFailureHandler.java
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- * /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-jar/org/springframework/security/web/server/authorization/AuthorizationContext.java
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```

Found in path(s):

```
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
jar/org/springframework/security/web/authentication/DelegatingAuthenticationFailureHandler.java
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
jar/org/springframework/security/web/access/expression/AbstractVariableEvaluationContextPostProcessor.java
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
jar/org/springframework/security/web/access/expression/EvaluationContextPostProcessor.java
* /opt/cola/permits/1450108783_1666629215.5676582/0/spring-security-web-5-7-4-sources-
```

1.48 reload4j 2.17.1

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1.49 bouncy-castle 1.64

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Miles Whiteley <Miles.Whiteley@#064savvis.net> - "223" fix for BCPGInputStream new packets.

Albert Moliner <amoliner@#064evintia.com> - initial TSP implementation.

Carlos Lozano <carlos@#064evintia.com> - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

Javier Delgado <javi@#064javi.codewarp.org> - initial Mozilla PublicKeyAndChallenge classes.

Joni Hahkala <joni.hahkala@#064cern.ch> - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the EGEE project for making the work available.

Rolf Schillinger <rolf@#064sir-wum.de> - initial implementation of Attribute Certificate generation.

Sergey Bahtin <Sergey_Bahtin@#064yahoo.com> - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.

Franck Leroy <Franck.Leroy@#064keynectis.com> - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.

Atsuhiko Yamanaka <ymnk@#064jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

Nickolay Bolshakov <tyrex@#064reksoft.ru> - patch for class cast exception in AuthorityInformationAccess class.

- Soren Hilmer <soren.hilmer@tietoenator.com> - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.
- Steve Mitchell <mitchell@intertrust.com> - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP. Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.
- Dirk Eisner <D.Eisner@seeburger.de> - initial implementation of ISO 78164-4 padding.
- Julien Pasquier <julienpasquier@free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
- Matteo <matartuso@libero.it> - sequence patch to ASN1Dump.
- Andrew Paterson <andrew.paterson@burnsecs.com> - patches to PGP tools, isRevoked method on PGPPublicKey.
- Vladimir Molotkov <vladimir.n.molotkov@intel.com> - extensive provider exception handling compliance testing.
- Florin Kollan <adlocflo@web.de> - fix to ElGamalKeyParameters equality testing.
- Pavel Vassiliev <paulvas@gmail.com> - Initial GOST28147Mac implementation.
- Tom Pesman <tom@tinux.net> - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.
- Lukasz Kowalczyk <lukasz.b.kowalczyk@gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.
- Arndt Hasch <Arndt.Hasch@maxence.de> - additional fix for partial reading with new style PGP packets.
- Fix Bernd (KCDP 11) <bernd.fix@credit-suisse.com> - fix for 31 byte issue and exception throwing by Whirlpool.
- David M. Lee <dmlee@Crossroads.com> - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
- Mike Dillon <md5@embody.org> - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
- tu-vi cung <t2cung@hotmail.com> - patch for out of bounds problem in getDecoderStream method.
- Chris Schultz <cschultz@gmail.com> - fix for InputStream constructor for X509V2AttributeCertificate.
- David M. Lee <dmlee@Crossroads.com> - implementation assistance with streaming CMS classes.
- Joel Rees <rees@ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute certificates.
- Francesc Sau <francesc.sau@partners.netfocus.es> - micro fix for tsp Accuracy class.
- Larry Bugbee <bugbee@mac.com> - initial ECNR implementation.
- Remi Blancher <Remi.Blancher@keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
- Brian O'Rourke <brianorourke@gmail.com> - patch for signature creation time override in OpenPGP.
- Andreas Schwier <andreas.schwier@cardcontact.de> - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.
- David Josse <david.josse@transacttools.net> - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko <kazu-k@hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan <lwrnctan@gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente <superdupont@gmail.com> - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christinat, http://www.keyon.ch - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, <olaf.keller.bc@bluewin.ch> - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

Jörg Eichhorn <eichhorn@ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme <widerstand@t-online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design.

CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz <carlos@tradise.com> - patch for <ctrl><m> only handling in CRLFOutputStream.

John Alfred Prufrock <j.a.prufrock@gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guillhen <sneusatz@gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice <marzio.logiudice@gmail.com> - fix to endianness in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold <georg.lippold@gmx.de> - initial implementation of NaccacheStern cipher.

Chris Viles <chris_viles@yahoo.com> - fix to SignatureSubpacket critical bit setting.

Pasi Eronen <Pasi.Eronen@nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.

Lijun Liao <https://github.com/xipki> performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream. Addition of getSignatureAlgorithmID to BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.

Maria Ivanova <maria.ivanova@gmail.com> - support for tags > 30 in ASN.1 parsing.

Armin Häberling <arminha@student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder <mschilder@google.com> - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vourch <xavier@brittanysoftware.com> - general code clean ups.

- Erik Tews <e_tews@informatik.tu-darmstadt.de>; - initial threaded random seed generator, constant-time PKCS#1.5 decoding
- Thomas Dixon <reikomusha@gmail.com>; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.
- Frank Cornelis <info@frankcornelis.be>;- addition of crlAccessMethod in X509ObjectIdentifiers.
- Rui Joaquim <rjoaquim@cc.isel.ipl.pt>; - initial implementation of RSA blinding for signatures.
- David Stacey <DStacey@allantgroup.com>; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.
- Martijn Brinkers <list@mitm.nl>; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.
- Julius Davies <juliusdavies@gmail.com>; - additional modes and algorithm support in PEMReader
- Matthias <g@rtner.de>; - GnuPG compatibility changes for PBEFileProcessor.
- Olga Kaethler <olga.kaethler@hjp-consulting.com>; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.
- Germano Rizzo <germano.rizzo@gmail.com>; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.
- Núria Marí <numaa@hotmail.com>; - patch for alternate data type recognition in CMSSignedDataParser.
- Janis Schuller <js@tzi.de>; - addition of NotationData packets for OpenPGP.
- Michael Samblanet <mike@samblanet.com>; - patches towards improved Sun/default provider support in CMS.
- Mike StJohns <mstjohns@comcast.net>; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.
- Ramon Keller <ramon.keller@gmx.ch>; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
- Mark Nelson <mark@nbr.com>; - correction to excluded DN in name constraints processing for PKIX processing.
- Eugene Golushkov <eugene_gff@ukr.net>; - mask fix to single byte read in TlsInputStream.
- Julien Pasquier <julienpasquier@free.fr>; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.
- Peter Knopp <pknopp@mtg.de>; - fix for named curve recognition in ECGOST key generation.
- Jakub Gwozdz <gwozdziu@rpg.pl>; - addition of getTsa() to TimestampTokenInfo.
- Bartosz Malkowski <bmalkow@tigase.org>; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.
- Tal Yacobi <tal.yacobi@octavian-tech.com>; - fix for issue in OpenPGP examples [#BJA-55].
- Massimiliano Ziccardi <massimiliano.ziccardi@gmail.com>; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.
- Andrey Pavlenko <andrey.a.pavlenko@gmail.com>; - security manager patch for PKCS1Encoding property check.
- J Ross Nicoll <jrn@jrn.me.uk>; - improved exception handling for getInstance() in ASN.1 library.
- Matthew Stevenson <mavricknz@yahoo.com>; - patch to construtor for CRMF CertSequence.
- Gabriele Contini <gcontini@hotpop.com>; - identified a bug in ASN.1 library with handling of unterminated NDEF's.
- Roelof Naude <roelof.naude@epiuse.com>; - patch for TLS client to send empty client certs in

response to HP_CERTIFICATE_REQUEST.
Patrick Peck <peck@signature.nat> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
Michael LeMay <lemaymd@lemaymd.com> - identified problem with EAX [#BJA-93].
Alex Dupre <alex@FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102]
Michael Schoene <michael@sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().
Ion Larrañaga <ilarra@s21sec.com> fix to default partial packet generation in BCPGOutputStream.
Bob Kerns <bob.kerns@positscience.com> fix to hashCode for X509CertificateObject.
Stefan Meyer <stefan.meyer@ewe.de> backport for PKIXCertPathValidator and SMIMESignedMailReviewer.
Robert J. Moore <Robert.J.Moore@allanbank.com> speedups for OpenPGPCFB mode, clean room JCE patches.
Rui Hodai <rui@po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.
Emir Bucalovic <emir.bucalovic@mail.com> initial implementation of Grain-v1 and Grain-128.
Torbjorn Svensson <tobbe79@gmail.com> initial implementation of Grain-v1 and Grain-128.
Paul FitzPatrick <bouncycastle_pfitz@fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
Henrik Andersson <k.henrik.andersson@gmail.com> addition of UniqueIssuerID to certificate generation.
Cagdas Cirit <cagdasirit@gmail.com> subjectAlternativeName fix for x509CertStoreSelector.
Harakiri <harakiri_23@yahoo.com> datahandler patch for attached parts in SMIME signatures.
Pedro Henriques <pmahenriques@gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEP encoding.
Lothar Kimmeringer <job@kimmeringer.de> verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.
Richard Farr <rfarr.se@gmail.com> initial SRP-6a implementation.
Thomas Castiglione <castiglione@au.ibm.com> patch to encoding for CRMF OptionalValidity.
Elisabetta Romani <eromani@sopei.it> patch for recognising multiple counter signatures.
Robin Lundgren <r737lundgren@gmail.com> CMPCertificate constructor from X509CertificateStructure fix.
Petr Kadlec <mormegil@centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.
Andreas Antener <antener_a@gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.
Harendra Rawat <hsrawat@yahoo.com> fix for BERConstructedOctetString.
Rolf Lindemann <lindemann@trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].
Alex Artamonov <alexart.home@gmail.com> name look up patch for GOST-2001 parameters.
Mike Lyons <mlyons@layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.
Chris Cole <chris_h_cole@yahoo.com> identified a problem handling null passwords when loading a BKS keystore.
Tomas Krivanek <tom@atack.cz> added checking of Sender header to SignedMailValidator.
Michael <emfau@t-online.de> correction of field error in getResponse method in

- CertRepMessage.
- Trevor Perrin <trevor@cryptography.com> addition of constant time equals to avoid possible timing attacks.
- Markus Kilås <markus@primekey.se> several enhancements to TimeStampResponseGenerator.
- Dario Novakovic <darionis@yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.
- Michael Smith <msmith@cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.
- Andrea Zilio <andrea.zilio@gmail.com> fix for PEM password encryption of private keys.
- Alex Birkett <alex@birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].
- Wayne Grant <waynedgrant@gmail.com> additional OIDs for PKCS10 and certificate generation support.
- Frank Cornelis <info@frankcornelis.be> additional support classes for CADES, enhancements to OCSP classes.
- Jan Dittberner <jan@dittberner.info> addHeader patch for SMIME generator.
- Bob McGowan <boab.mcgoo@btinternet.com> patch to support different object and mgf digests in PSS signing.
- Ivo Matheis <i.matheis@seeburger.de> fix to padding verification in ISO-9796-1.
- Marco Sandrini <nessche@gmail.com> patch to add IV to ISO9797Alg3Mac.
- Alf Malf <alfilmalf@hotmail.com> removal of unnecessary limit in CMSContentInfoParser.
- Alfonso Massa <alfonso.massa@insiel.it> contributions to CMS time stamp classes.
- Giacomo Boccardo <gboccardo@unimaticaspa.it> initial work on CMSTimeStampedDataParser.
- Arnis Tartu <arnis@ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.
- Janusz Sikociski <J.Sikocinski@gdzie.pl> addition of Features subpacket support to OpenPGP API.
- Juri Hudolejev <jhudolejev@gmail.com> JavaDoc fix to CMSSignedDataParser.
- Liane Velten <liane.velten@hjp-consulting.com> fine tuning of code for DHParameters validation.
- Shawn Willden <swillden@google.com> additional functionality to PGPKKeyRing.
- Atanas Krachev <akrachev@gmail.com> added support for revocation signatures in OpenPGP.
- Mickael Laiking <mickael.laiking@keynectis.com> initial cut of EAC classes.
- Tim Buktu <tbuktu@hotmail.com> Initial implementation of NTRU signing and encryption.
- Bernd <rbernd@gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.
- Steing Inge Morisbak <stein.inge.morisbak@BEKK.no> Test code for lower case Hex data in PEM headers.
- Andreas Schmid <andreas.schmid@tngtech.com> Additional expiry time check in PGPPublicKeys.
- Phil Steitz <phil.steitz@gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.
- Ignat Korchagin <ignat.korchagin@gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.
- Petar Petrov <p.petrov@bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.
- Daniel Fitzpatrick <daniel.f.nwr@gmail.com> Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective

coordinates for EC.
Andy Neilson <Andy.Neilson@quest.com>; a further patches to deal with multiple providers and PEMReader.
Ted Shaw <xiao.xj@gmail.com>; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.
Eleriseth <Eleriseth@WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUUVW99v3yNV3IWROG8.fms>; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.
Kenny Root <kenny@the-b.org>; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.
Maarten Bodewes <maarten.bodewes@gmail.com>; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.
Philip Clay <pilf_b@yahoo.com>; Initial implementation of J-PAKE.
Brian Carlstrom <bdc@carlstrom.com>; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.
Samuel Lidén Borell <samuel@primekey.se>; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder
Sergio Demian Lerner <sergiolerner@certimix.com>; pointing out isInfinity issue in ECDSASigner signature verification.
Tim Whittington <Tim.Whittington@orionhealth.com>; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.
Marcus Lundblad <marcus.lundblad@primekey.se>; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.
Andrey Zhozhin <zhozhin@xrm.ru>; patch for override of TSP SignerInfo attributes.
Sergey Tiunov <t5555d@gmail.com>; initial cut of DVCS classes.
Damian Kolasa <fatfredy@gmail.com>; ASN1Sequence patch for class cast issue in X9Curve.
Ash Hughes <ashley.hughes@blueyonder.co.uk>; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().
Daniel Hirscher <dev@daniel-hirscher.de>; patch to support parsing of explicit EC parameters in PEM files.
Daniele Ricci <daniele.athome@gmail.com>; initial implementation of EC keys for OpenPGP and RFC6637 support.
Matti Aarnio <matti.aarnio@methics.fi>; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.
Babak Najafi <bnajafi@akamai.com>; fixes to OpenPGP NotationData to prevent truncation problems.
Eric Mueller <eric.mueller@sage.de>; additional standard algorithm name lookups in JcaPEMKeyConverter.

- Mathias Herberts <Mathias.Herberts@064gmail.com>; fix to inOff usage in RFC3394WrapEngine.
- Daniil Ivanov <daniil.ivanov@064gmail.com>; addition of provider support for GOST HMAC SecretKeyFactory.
- Daniele Grasso <daniele.grasso86@064gmail.com>; contributions to final Key calculation code for SRP6.
- Andrey Utkin <cindrhc@064gmail.com>; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.
- Arnis Tartu <arnis@064ut.ee>; checker for generated key vs OID in JceCMSContentEncryptorBuilder.
- AxelVDB <axel-vdb@064riseup.net>; initial implementation of Shacal2.
- Roberto Tyley <>; further work on completing gradle build.
- Waldemar Dick <wdick@064devmue.de>; code improvement in x500 ASN.1 package.
- Sid Steward <sid.steward@064pdflabs.com>; code improvements to ASN1Boolean.
- Alex Klyubin <klyubin@064google.com>; AlgorithmParameters check for EC key agreement.
- Jonathan Gillett <gsoc.student@064gmail.com>; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.
- Andreas Reiter <andreas.reiter@064iaik.tugraz.at>; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
- Kieran Miller <kieran.miller@064gmail.com>; initial implementation for RFC 5649 key wrap with padding.
- Oliver Ehli<ehli@064arago.de>; Additional support for BSI plain ECDSA in the provider.
- Daniel Heldt<Daniel.Heldt@064cryptovision.com>; Initial support for encodable state message digests
- Robert Bushman <bouncycastle@064traxel.com>; Clean up of DirectKeySignature example.
- Maurice Aarts<aarts@064riscure.com>; updated to KDF generator to follow NIST SP 800-108.
- Franziskus Kiefer<https://github.com/franziskuskiefer>; initial implementation of Cramer-Shoup.
- KB Sriram<mail_kb@064yahoo.com>; testing for odd encodings for PGP User Attribute Subpackets.
- Marco Schulze<marco@064nightlabs.de>; Reported verification bug in GenericSigner.
- Martin Schaef<https://github.com/martinschaef>; contributed a code-cleanup patch.
- dstutz<https://github.com/dstutz>; added iteration count setters to PKCS#12 PBE mac/key generator builders.
- Tobias Wich<tobias.wich@064ecsec.de>; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.
- Hauke Mehrtens<hauke@064hauke-m.de>; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.
- Daniel Zimmerman<dmz@064galois.com>; Further key quality improvements to RSAKeyPairGenerator.
- Jens Kapitz<j.kapitza@064schwarze-allianz.de>; Iterable support in OpenPGP API, code cleanup in OpenPGP API.
- Johan Eklund<johan@064primekey.se>; update to RFC 6960 for OCSPObjectIdentifiers.
- nikosn<https://github.com/nikosn>; Fix to encoding of EC private keys to ensure encoding matches order length.
- Axel von dem Bruch <axel-vdb@064riseup.net>; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.
- Derek Atkins <derek@064ihtfp.com>; Documentation fixes to X9ObjectIdentifiers.
- Peter Jr Halicky <peto@064halicky.sk>; Correction to notification/error message handling in SignedMailValidator.

- IartiguePierre<https://github.com/IartiguePierre>; Fix for counter signature SID in CMSSignedData.
- Thomas Belot<https://github.com/thomas.belot>; initial CertPathLoopTest for demonstrating stack overflow issue.
- Rich DiCroce<https://github.com/rdicroce>; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.
- Björn Kautler<https://github.com/Vampire>; Refinements to cert path validation (authority key addition, certificate order preservation).
- Dominik Schürmann<https://github.com/dschuermann>; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPPrivateKey, constants for GNU protection modes in S2K classes, optional version header for armored output.
- Michael MSKnet<https://github.com/msknet>; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.
- Tobias Wagner<https://github.com/tobias.wagner>; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].
- Sergio Giro<https://github.com/sgiro>; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.
- bschuette<https://github.com/bschuette>; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.
- Leonard Dallot<https://github.com/dallot>; Fix to S2K usage of none on changing passwords on keys without passwords originally.
- Jan Willem Janssen<https://github.com/j.w.janssen>; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.
- Sebastian Oerding<https://github.com/sebastian.oerding>; Fixes to toString() in x509.CertificatePolicies.
- Kai Kramer<https://github.com/kai.kramer>; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.
- Benoit Charles<https://github.com/benoit.charles>; Fix for IES data length check on decryption.
- Niko<https://github.com/nfink95>; fix to cast issue in getOutputSize() for ECIES.
- akwizgran<https://github.com/akwizgran>; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.
- Matthias Edelhoff<https://github.com/Matthias.Edelhoff>; BasicConstraintsValidation pathlen fix in PKIX certpath classes.
- Lukasz Deputat<https://github.com/lukasz.deputat>; Fixed bugs in TlsUtils read methods [#BJA-592].
- Justin Ludwig<https://github.com/justinludwig>; Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.
- André Berenguel<https://github.com/aberenguel>; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.
- Slawomir Jaranowski<https://github.com/slawekjaranowski>; Patch to make cipher/hash/signature name methods in PGP internal API public.
- Andrey Vasilyev<https://github.com/andrey-vasilyev>; Initial implementation of GOST R 34.11-2012.
- William Glanton<https://github.com/wglanton77>; Fixed bug in Poly1305 [#BJA-620].
- jdvorak001<https://github.com/jdvorak001>; Speed improvements for ASN.1 ObjectIdentifier cache.
- Joseph Naegele<https://github.com/jnaegele>; Patch for handling multiple certificates in a DANE SMIMEA entry.
- Andrew Bonventre<https://github.com/andybons>; NullPointer patch for WNAUtil.
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Joerg Senekowitsch <joerg.senekowitsch@veridos.com> patch to deal with hard coded boolean in EAC ECDSAPublicKey.

Alexandr Krivoshta <wipe@ya.ru> N4 calculation fix to GOFB mode.

Artem Storozhuk <storojs72@gmail.com> N4 calculation fix to GOFB mode.

Na Yu <na.yu@samsung.com> Constructor patches to CMC PKIData.

Evangelos Karatsiolis <ekaratsiolis@mtg.de> Corrected use of explicit tagging in X.509 PolicyConstraints class.

VivleSoren <https://github.com/VivleSoren> additional constructor for McElieceCCA2PrivateKeyParameters.

mtausig <https://github.com/mtausig> JavaDoc fix for MCSEncryptedDataGenerator.

Anders Schack-Mulligen <https://github.com/aschackmull> code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.

Sebastian Wolfgang Roland <sebastianwolfgang.roland@stud.tu-darmstadt.de> Initial XMSS/XMSS-MT implementation.

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Mike Safonov<https://github.com/MikeSafonov> initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.

Artem Storozhuk <storojs72@gmail.com> initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser <andreas.glaser@gi-de.com> patch to recognise ANSSI curves for PKCS#10 requests.

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FauxFaux <https://github.com/FauxFaux> patch for JDK 1.9 update to DRBG.java.

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Scott Woodward <scott@bit3consulting.com> performance fixes for CTRSP800DRBG.

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- Nick of Nexxar <https://github.com/nros> update to OpenPGP package to handle a broader range of EC curves.
- catbref <https://github.com/catbref> sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).
- gerlion <https://github.com/gerlion> detection of concurrency issue with pre-1.60 EC math library.
- fgrieu <fgrieu@gmail.com> identification and suggested fixes for possible timing vulnerability in OAEP encoding and RSACoreEngine.
- MTG <https://github.com/mtgag> patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.
- Andreas Gadermaier <up.gadermaier@gmail.com> initial version of Argon2 PBKDF algorithm.
- Tony Washer <tony.washer@yahoo.co.uk> review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.
- Vincent Bouckaert <https://github.com/veebee> initial version of RFC 4998 ASN.1 classes.
- Tony Washer <https://github.com/tonywasher> ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.
- Aurimas Liutikas <https://github.com/liutikas> JavaDoc patches to ReasonsMask.
- Gabriel Sroka <https://github.com/gabrielsroka> corrected comments in RSA validation.
- sarah-mdv <https://github.com/sarah-mdv> improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.
- Jesse Feinman <https://github.com/jessefeinman> performance optimisation in RSAKeyParameters.
- Gilis95 <https://github.com/Gilis95> improved JSSE compatibility for setEnabledCipherSuites.
- Haemin Yoo <https://github.com/yoohaemin> Javadoc fixes.
- Antoine Toulme <https://github.com/atoulme> Initial implementation of EthereumIESEngine.
- Golden Looly <https://github.com/looly> Patch for addition of C1C3C2 mode to SM2Engine.
- Moses Palmér, TrueSec <Henrik.Palmer@truesec.se> Additional improvements to constant time comparisons.
- René Korthaus<https://github.com/securitykernel> Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.
- THausherr<https://github.com/THausherr> Addition generic support for CMS/TSP functions.
- Gaylor Bosson<https://github.com/Gilthoniel> Initial implementation of Blake2xs.
- gaellalire<https://github.com/gaellalire> Patch for unprotected PGP private keys as SExpr.
- im-scooter<https://github.com/im-scooter> Patch for case-insensitive behaviour of Param-Z.
- Nick hitchan<https://github.com/hitchan> Fix for typo in engineInitSign() in EdEc SignatureSpi.
- dbusche<https://github.com/dbusche> Argon2 optimisations.
- Daniel Heldt<https://github.com/dheldt> Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.
- Ugochukwu Mmaduekwe<https://github.com/Xor-el> Fix for initially bugged legacy Integers.numberOfLeadingZeros method.
- Gsealy <https://github.com/Gsealy> addition of PBKDF2withHmacSM3 to the provider.
- aphuang2013 <https://github.com/aphuang2013> update to path validation in EST service for ClearPath EST.
- Kevin Herron <https://github.com/kevinherron> Initial ChaCha20Poly1305 prototype.

```
<li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for
DefaultCMSSignatureEncryptionAlgorithmFinder.</li>
<li>Tobias Ospelt &gt;tobias&#064pentagrid.ch&lt; Identification of 1.63 regression in ASN.1 parsing.</li>
</ul>
</body>
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```

1.50 jackson-databind 2.11.4

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1.51 jackson 2.13.4

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1.52 gson 2.9.1

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* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/JsonPrimitive.java
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* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java
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* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-

jar/com/google/gson/annotations/Until.java
* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-
jar/com/google/gson/GsonBuilder.java
* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-
jar/com/google/gson/JsonIOException.java
* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-
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* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-
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jar/com/google/gson/JsonObject.java
* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-
jar/com/google/gson/JsonParseException.java
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jar/com/google/gson/FieldNamingStrategy.java
* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/JsonArray.java
* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-
jar/com/google/gson/annotations/Since.java
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jar/com/google/gson/FieldNamingPolicy.java
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jar/com/google/gson/annotations/SerializedName.java
* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-
jar/com/google/gson/JsonElement.java
* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-
jar/com/google/gson/JsonDeserializationContext.java
* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-
jar/com/google/gson/internal/Excluder.java
* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-
jar/com/google/gson/reflect/TypeToken.java
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* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/JsonStreamParser.java

* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/JsonParser.java

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* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/internal/bind/JsonTreeReader.java

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* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java

* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java

* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java

* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/internal/bind/TypeAdapters.java

* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/TypeAdapter.java
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* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/internal/bind/JsonTreeWriter.java

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1.53 spring-web-mvc 5.3.23

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1.54 httpcomponents-client 4.5.13

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```
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jar/jnr/constants/PlatformConstants.java
* /opt/cola/permits/1257321049_1642800610.51/0/jnr-constants-0-10-3-sources-jar/jnr/constants/ConstantSet.java
* /opt/cola/permits/1257321049_1642800610.51/0/jnr-constants-0-10-3-sources-jar/jnr/constants/Constant.java
* /opt/cola/permits/1257321049_1642800610.51/0/jnr-constants-0-10-3-sources-
jar/jnr/constants/platform/ConstantResolver.java
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jar/org/yaml/snakeyaml/scanner/ScannerImpl.java

* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-
jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java

* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-

jar/org/yaml/snakeyaml/error/MarkedYAMLException.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-
jar/org/yaml/snakeyaml/constructor/BaseConstructor.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-
jar/org/yaml/snakeyaml/tokens/CommentToken.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-
jar/org/yaml/snakeyaml/tokens/DocumentStartToken.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-
jar/org/yaml/snakeyaml/representer/BaseRepresenter.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-
jar/org/yaml/snakeyaml/comments/CommentEventsCollector.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-
jar/org/yaml/snakeyaml/tokens/DocumentEndToken.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-
jar/org/yaml/snakeyaml/tokens/StreamStartToken.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-
jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java
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jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java
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jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-
jar/org/yaml/snakeyaml/nodes/Node.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-
jar/org/yaml/snakeyaml/emitter/Emitable.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-
jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-
jar/org/yaml/snakeyaml/inspector/UnTrustedTagInspector.java
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jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java
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jar/org/yaml/snakeyaml/events/CollectionEndEvent.java
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jar/org/yaml/snakeyaml/serializer/Serializer.java
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jar/org/yaml/snakeyaml/tokens/DirectiveToken.java
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jar/org/yaml/snakeyaml/reader/StreamReader.java
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jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-
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/**
 * A Base64 encoder/decoder.
 *
 * <p>
 * This class is used to encode and decode data in Base64 format as described in RFC 1521.
 *
 * <p>
 * Project home page: <a href="http://www.source-code.biz/base64coder/java/">www.
 * source-code.biz/base64coder/java</a><br>
 * Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland<br>
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 */
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Found in path(s):

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INF/maven/org.yaml/snakeyaml/pom.xml
```

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1.57 netty-codec 4.1.84.Final

1.57.1 Available under license :

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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

Found in path(s):

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/base64/Base64Dialect.java
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```

Found in path(s):

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
```

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/CharSequenceValueConverter.java
```

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
```

jar/io/netty/handler/codec/ValueConverter.java

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* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/META-INF/native-  
image/codec-handlers/native-image.properties
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```
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```

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```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-  
jar/io/netty/handler/codec/DefaultHeaders.java
```

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-  
jar/io/netty/handler/codec/EmptyHeaders.java
```

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-  
jar/io/netty/handler/codec/Headers.java
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* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/json/package-info.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-

jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
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* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/CompressionOptions.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/Brotli.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/Zstd.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/BrotliDecoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java

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* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/CodecOutputList.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-

jar/io/netty/handler/codec/DateFormatter.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-

jar/io/netty/handler/codec/compression/CompressionUtil.java

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jar/io/netty/handler/codec/xml/XmlFrameDecoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-

jar/io/netty/handler/codec/compression/JdkZlibDecoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-

jar/io/netty/handler/codec/compression/Crc32c.java

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* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-

```
jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
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```

```
*/
```

```
/**
```

```
* A decoder that splits the received { @link ByteBuf}s dynamically by the  
* value of the length field in the message. It is particularly useful when you  
* decode a binary message which has an integer header field that represents the  
* length of the message body or the whole message.
```

```
* <p>
```

```
* { @link LengthFieldBasedFrameDecoder } has many configuration parameters so  
* that it can decode any message with a length field, which is often seen in  
* proprietary client-server protocols. Here are some example that will give  
* you the basic idea on which option does what.
```

```
*
```

```
* <h3>2 bytes length field at offset 0, do not strip header</h3>
```

*
 * The value of the length field in this example is `<tt>12 (0x0C)</tt>` which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.

```
* <pre>
* <b>lengthFieldOffset</b> = <b>0</b>
* <b>lengthFieldLength</b> = <b>2</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
```

```
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |   | 0x000C | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
```

*
 * `<h3>2 bytes length field at offset 0, strip header</h3>`
 *

* Because we can get the length of the content by calling
 * `{ @link ByteBuf#readableBytes() }`, you might want to strip the length
 * field by specifying `<tt>initialBytesToStrip</tt>`. In this example, we
 * specified `<tt>2</tt>`, that is same with the length of the length field, to
 * strip the first two bytes.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
```

```
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" |   | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
```

*
 * `<h3>2 bytes length field at offset 0, do not strip header, the length field
 * represents the length of the whole message</h3>`
 *

* In most cases, the length field represents the length of the message body
 * only, as shown in the previous examples. However, in some protocols, the
 * length field represents the length of the whole message, including the
 * message header. In such a case, we specify a non-zero
 * `<tt>lengthAdjustment</tt>`. Because the length value in this example message
 * is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>`

```

* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+-----+-----+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>

```

* The following message is a simple variation of the first example. An extra header value is prepended to the message. <tt>lengthAdjustment</tt> is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

```

* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |   | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+
* </pre>

```

* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>

* This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive <tt>lengthAdjustment</tt> so that the decoder counts the extra header into the frame length calculation.

```

* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |

```



```
* </pre>
* @see LengthFieldPrepender
*/
```

Found in path(s):

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
```

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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
```

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/package-info.java
```

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
```

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/serialization/ClassResolvers.java
```

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/ReplayingDecoder.java
```

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
```

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
```

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/EncoderException.java
```

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/TooLongFrameException.java
```

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/ZlibDecoder.java
```

```
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/bytes/package-info.java
```

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/serialization/package-info.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/DecoderException.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/DecoderResult.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/MessageAggregator.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/Snappy.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/base64/package-info.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/CodecException.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/xml/package-info.java

* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/string/package-info.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/package-info.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
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*/
```

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```
*/opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
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*/opt/cola/permits/1448934350_1666395823.5596614/0/netty-codec-4-1-84-final-sources-
jar/io/netty/handler/codec/compression/Lz4XXHash32.java
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1.58 apache-log4j 2.17.1

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1.59 tomcat 9.0.68

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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
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The original XML Schemas for Java EE Deployment Descriptors:

- javaee_5.xsd
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:

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- jsp_2_2.xsd
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1.61 micrometer-core 1.9.5

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1.62 asm 5.0.3

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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.
 */

```

Found in path(s):

```

* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
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*/

/**

* Creates a new {[@link GeneratorAdapter](#)}. *Subclasses must not use this*

* constructor*.* 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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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-

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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.
 */

```

Found in path(s):

```
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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 first 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.
*/

Found in path(s):

* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

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- * /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/package.html
- * /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
- jar/org/objectweb/asm/signature/package.html
- * /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
- jar/org/objectweb/asm/tree/analysis/package.html
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*/
/**
 * Constructs a new {@link Textifier}. Subclasses must not use this
 * constructor. Instead, they must use the {@link #Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

```

Found in path(s):

```

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```
*/
```

```
/**
```

```
 * Constructs a new {@link ClassNode}. Subclasses must not use this
 * constructor. Instead, they must use the {@link #ClassNode(int)}
 * version.
```

```
 *
```

```
 * @throws IllegalStateException
```

```
 *     If a subclass calls this constructor.
```

```
*/
```

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```
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 * /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXAdapter.java
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 * /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/ASMContentHandler.java
 * /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
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- jar/org/objectweb/asm/tree/analysis/Value.java
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- jar/org/objectweb/asm/tree/analysis/Frame.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Type.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/IncInsnNode.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/LineNumberNode.java

* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/ConstantPool.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/ASMifier.java

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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/commons/InstructionAdapter.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/optimizer/shrink.properties
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/shrink-
writer.properties
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/shrink-
resize.properties
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/shrink-
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/shrink-
annotations.properties
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/shrink-
frames.properties
```

1.63 spring-cloud-starter 3.0.1

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* /opt/cola/permits/1136173456_1614710708.71/0/spring-cloud-starter-3-0-1-jar/META-INF/maven/org.springframework.cloud/spring-cloud-starter/pom.xml

1.64 aspect-j 1.9.7

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1.66 jboss-logging 3.4.3.Final

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1.68 spotbugs-annotations 3.1.12

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1.69 spring-expression 5.3.23

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1.70 asm 5.1

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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 `MethodVisitor` to send the resulting inlined
- * method code to (use `null` 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 `null`.
- * @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.
*/
```

Found in path(s):

```
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
```

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```
*/
```

```
/**
```

```
* Constructs a new {@link Textifier}. Subclasses must not use this
```

```
* constructor. Instead, they must use the {@link #Textifier(int)}
```

```
* version.
```

```
*
```

```
* @throws IllegalStateException
```

```
*      If a subclass calls this constructor.
```

*/

Found in path(s):

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* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-
jar/org/objectweb/asm/signature/package.html
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-
jar/org/objectweb/asm/commons/package.html
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/util/package.html
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jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-
jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-
jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-
jar/org/objectweb/asm/xml/ASMContentHandler.java

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*/

/**

* Creates a new {@link GeneratorAdapter}. *Subclasses must not use this*

* constructor*.* 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.
*/

```

Found in path(s):

```

* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-
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```

```

*/

```

```

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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.
*/

```

Found in path(s):

```

* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-
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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
 *     null if the annotation targets 'typeRef' as a whole.
 * @param start
 *     the first 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.
 */

```

Found in path(s):

```

* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-
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- * /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
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- * /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
- * /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
- * /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
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- * /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/JarOptimizer.java
- * /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
- * /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/Item.java
- * /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/MethodInsnNode.java
- * /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
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* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java

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* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/AnnotationWriter.java
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/**
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*/

/**

* Constructs a new { @link ClassNode}. *Subclasses must not use this
* constructor*. Instead, they must use the { @link #ClassNode(int)}
* version.

*

* @throws IllegalStateException

* If a subclass calls this constructor.

*/

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writer.properties

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1.71 spring-plugin-core 1.2.0.RELEASE

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1.72 mockito-core 3.6.28

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1.73 jjwt 0.9.1

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* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/crypto/RsaSigner.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwtHandler.java
```

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/SigningKeyResolverAdapter.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/ClaimJwtException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/Jws.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/SignatureValidatorFactory.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/Claims.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/InstantiationException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/DefaultJwtSigner.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/ClaimsMutator.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/DefaultJwtSignatureValidator.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/UnsupportedJwtException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/MacValidator.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJwtBuilder.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/JwtSigner.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJwsHeader.java
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* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/Signer.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/SignerFactory.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/SignatureValidator.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/DefaultSignatureValidatorFactory.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/RuntimeEnvironment.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/MalformedJwtException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/SignatureException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/AbstractTextCodec.java
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* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/PrematureJwtException.java
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* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/Jwt.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Strings.java
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* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Objects.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Assert.java
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* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/Base64UrlCodec.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/SigningKeyResolver.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultClaims.java

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- * /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/EllipticCurveSignatureValidator.java
- * /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultTextCodecFactory.java
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- * /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/InvalidClaimException.java
- * /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/EllipticCurveSigner.java
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- * /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/compression/DefaultCompressionCodecResolver.java
- * /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/IncorrectClaimException.java
- * /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/compression/DeflateCompressionCodec.java
- * /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/CompressionCodec.java
- * /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/compression/GzipCompressionCodec.java
- * /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/compression/CompressionCodecs.java
- * /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/compression/AbstractCompressionCodec.java
- * /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/MissingClaimException.java
- * /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/AndroidBase64Codec.java
- * /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/CompressionException.java

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* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/META-INF/maven/io.jsonwebtoken/jjwt/pom.xml

1.74 feign-httpclient 10.7.4

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1.75 spring-security-rsa 1.0.9.RELEASE

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1.76 spring-aop 5.3.23

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1.84 hibernate-validator 6.2.5.Final

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jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/flush/package-info.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/flow/package-info.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
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jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
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- * /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/PemReader.java
- * /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
- * /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
- * /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java
- * /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java
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- * /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/SslProvider.java
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* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ipfilter/package-info.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/SslUtils.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/SniHandler.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java

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* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/OpenSsl.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java

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* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java

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* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-

jar/io/netty/handler/ssl/OptionalSslHandler.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-

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image/io.netty.handler.native-image.properties

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* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/address/package-info.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java

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* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/BouncyCastlePemReader.java

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*/opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java
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*/opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
```

```
*/opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/OpenSslContextOption.java
```

```
*/opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/SslProtocols.java
```

```
*/opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/Ciphers.java
```

```
*/opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionCache.java
```

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/SslContextOption.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/ssl/BouncyCastle.java

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jar/io/netty/handler/timeout/IdleStateEvent.java

* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
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jar/io/netty/handler/timeout/IdleStateHandler.java

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jar/io/netty/handler/stream/ChunkedWriteHandler.java

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jar/io/netty/handler/timeout/WriteTimeoutHandler.java

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* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-jar/io/netty/handler/timeout/TimeoutException.java
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* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/pcap/IPPacket.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/pcap/TCPpacket.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/pcap/package-info.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/pcap/PcapHeaders.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/pcap/PcapWriter.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/pcap/EthernetPacket.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/pcap/UDPPacket.java
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jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
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jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-

jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
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jar/io/netty/handler/ssl/SslClosedEngineException.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilter.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
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*/opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
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jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
```

```
*/opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
```

```
*/opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
jar/io/netty/handler/traffic/TrafficCounter.java
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*/opt/cola/permits/1448934670_1666395805.9681761/0/netty-handler-4-1-84-final-sources-
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1.86 jackson-dataformat-yaml 2.13.4

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1.87 netty-codec-dns 4.1.84.Final

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jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
* /opt/cola/permits/1449816681_1666612573.6218061/0/netty-codec-dns-4-1-84-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java
* /opt/cola/permits/1449816681_1666612573.6218061/0/netty-codec-dns-4-1-84-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsResponseEncoder.java
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jar/io/netty/handler/codec/dns/DnsRawRecord.java
* /opt/cola/permits/1449816681_1666612573.6218061/0/netty-codec-dns-4-1-84-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java
* /opt/cola/permits/1449816681_1666612573.6218061/0/netty-codec-dns-4-1-84-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsQuery.java
* /opt/cola/permits/1449816681_1666612573.6218061/0/netty-codec-dns-4-1-84-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsQuery.java
* /opt/cola/permits/1449816681_1666612573.6218061/0/netty-codec-dns-4-1-84-final-sources-
jar/io/netty/handler/codec/dns/DnsRecordType.java
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jar/io/netty/handler/codec/dns/DnsRecord.java
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jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java
* /opt/cola/permits/1449816681_1666612573.6218061/0/netty-codec-dns-4-1-84-final-sources-
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* /opt/cola/permits/1449816681_1666612573.6218061/0/netty-codec-dns-4-1-84-final-sources-
jar/io/netty/handler/codec/dns/DnsPtrRecord.java
* /opt/cola/permits/1449816681_1666612573.6218061/0/netty-codec-dns-4-1-84-final-sources-
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* /opt/cola/permits/1449816681_1666612573.6218061/0/netty-codec-dns-4-1-84-final-sources-jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
* /opt/cola/permits/1449816681_1666612573.6218061/0/netty-codec-dns-4-1-84-final-sources-jar/io/netty/handler/codec/dns/DnsQueryEncoder.java
* /opt/cola/permits/1449816681_1666612573.6218061/0/netty-codec-dns-4-1-84-final-sources-jar/io/netty/handler/codec/dns/DnsCodecUtil.java
* /opt/cola/permits/1449816681_1666612573.6218061/0/netty-codec-dns-4-1-84-final-sources-jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java

1.88 commons-collections 4.4

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1.89 jackson-datatype-jsr310 2.13.4

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1.90 jnr-x86asm 1.0.2

1.91 feign-core 10.10.1

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Found in path(s):

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/META-INF/maven/io.github.openfeign/feign-core/pom.xml

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* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/AsyncFeign.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/template/Literal.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/AsyncJoinException.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/AsyncClient.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/optionals/OptionalDecoder.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/template/UriUtils.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/Headers.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/MethodInfo.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/codec/Encoder.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/Param.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/FeignException.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/Types.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/template/TemplateChunk.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/Experimental.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/RequestTemplate.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/template/UriTemplate.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/codec/Decoder.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/ResponseMapper.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/RequestInterceptor.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/template/Template.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/template/Expression.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/ReflectiveFeign.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/querymap/BeanQueryMapEncoder.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/InvocationHandlerFactory.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/SynchronousMethodHandler.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/querymap/FieldQueryMapEncoder.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/Request.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/Target.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/QueryMap.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/Retryer.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/codec/StringDecoder.java

* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/Feign.java

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* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-
jar/feign/template/HeaderTemplate.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/Client.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/HeaderMap.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/RetryableException.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-
jar/feign/codec/EncodeException.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/ReflectiveAsyncFeign.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/QueryMapEncoder.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/MethodMetadata.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-
jar/feign/AsyncResponseHandler.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-
jar/feign/auth/BasicAuthRequestInterceptor.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/codec/ErrorDecoder.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/RequestLine.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-
jar/feign/template/QueryTemplate.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/Util.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/template/Expressions.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/Response.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/DeclarativeContract.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/Logger.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/Body.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/DefaultMethodHandler.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-
jar/feign/template/BodyTemplate.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/stream/StreamDecoder.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-
jar/feign/codec/DecodeException.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/auth/Base64.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/CollectionFormat.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-
jar/feign/ExceptionPropagationPolicy.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/Capability.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/AsyncInvocation.java
* /opt/cola/permits/1257893270_1643019999.96/0/feign-core-10-10-1-sources-jar/feign/Contract.java

```

1.92 jakarta-validation-api 2.0.2

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- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validator.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/FutureOrPresent.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Null.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorContext.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ExecutableDescriptor.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/Default.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/MessageInterpolator.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/package-info.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/Unwrapping.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractor.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/ValidationTarget.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodDescriptor.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/package-info.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/UnexpectedTypeException.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/BeanDescriptor.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Digits.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/UnwrapByDefault.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NegativeOrZero.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintViolation.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDefinitionException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ValidateUnwrappedValue.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/SupportedValidationTarget.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/package-info.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ValidationProvider.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ElementKind.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/GroupConversionDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ExtractedValue.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/GenericBootstrap.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodType.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractorDeclarationException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstructorDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/package-info.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertTrue.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Path.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/package-info.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/package-info.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/PositiveOrZero.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractorDefinitionException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/BootstrapConfiguration.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ElementDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ContainerElementTypeDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/GroupDefinitionException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Min.java

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/Scope.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Max.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ReportAsSingleViolation.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ReturnValueDescriptor.java

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidator.java

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Payload.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/DecimalMin.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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INF/maven/jakarta.validation/jakarta.validation-api/pom.xml
```

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1.95 commons-lang3 2.6

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jar/org/slf4j/bridge/SLF4JBridgeHandler.java

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* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/exception/MissingSignatureException.java

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jar/com/mercateo/spring/security/jwt/token/exception/InvalidTokenException.java

* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/security/config/JWTSecurityConfiguration.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/security/_JWTAuthority.java
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* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/config/_JWTConfigData.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/extractor/TokenProcessor.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/extractor/ClaimsValidator.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/security/JWTAuthenticationToken.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/security/JWTPrincipal.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/exception/TokenException.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/keyset/JWTKeyset.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/extractor/HierarchicalClaimsExtractor.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/extractor/ClaimExtractor.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/verifier/JWTVerifier.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/security/JWTAuthenticationProvider.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/verifier/TokenVerifier.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/extractor/InnerClaimsWrapper.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/claim/_JWTClaims.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/security/config/_JWTSecurityConfig.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/exception/MissingClaimException.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/claim/_JWTClaim.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/security/JWTAuthenticationSuccessHandler.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/verifier/JWTVerifierFactory.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/keyset/Auth0JWTKeyset.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/security/JWTAuthenticationEntryPoint.java

* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/data/ClaimName.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/extractor/ValidatingHierarchicalClaimsExtractor.java

1.98 objenesis 3.2

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* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/classify/SubclassClassifier.java
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Found in path(s):

```
* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/classify/util/MethodInvokerUtils.java
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* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-jar/org/springframework/classify/BinaryExceptionClassifierBuilder.java
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jar/org/springframework/retry/policy/CircuitBreakerRetryPolicy.java
* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/interceptor/FixedKeyGenerator.java
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* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/interceptor/RetryOperationsInterceptor.java
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* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/stats/DefaultRetryStatistics.java
* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/stats/RetryStatisticsFactory.java
* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/stats/DefaultRetryStatisticsFactory.java
* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/stats/StatisticsListener.java
* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/stats/ExponentialAverageRetryStatistics.java
* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/stats/MutableRetryStatistics.java
* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/stats/StatisticsRepository.java
* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/stats/DefaultStatisticsRepository.java
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* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/annotation/CircuitBreaker.java
```

1.107 jnr-posix 3.1.15

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* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/FreeBSDPasswd.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/OpenBSDPOSIX.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/FreeBSDFileStat12.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/LinuxFileStat32.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-jar/jnr/posix/AixPOSIX.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/FreeBSDFileStat.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/FreeBSDPOSIX.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-jar/jnr/posix/AixFileStat.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
```

jar/jnr/posix/DragonFlyPOSIX.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-jar/jnr/posix/AixPasswd.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-jar/jnr/posix/AixLibC.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-jar/jnr/posix/DragonFlyPasswd.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-jar/jnr/posix/OpenBSDPasswd.java
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* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-jar/jnr/posix/MacOSFileStat64Inode.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-jar/jnr/posix/MacOSFileStat.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-jar/jnr/posix/util/Platform.java
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jar/jnr-posix/DefaultNativeGroup.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr-posix/util/Java5ProcessMaker.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
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*/opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
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1.108 json-smart 2.2.1

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- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParserByteArray.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONAwareEx.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParser.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParserString.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/CollectionMapper.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/ParseException.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONValue.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONObject.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/JsonReaderI.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONNavi.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/DefaultMapperOrdered.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParserInputStream.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/CompressorMapper.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONStreamAware.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/ArraysMapper.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParserMemory.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONUtil.java

- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParserReader.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/DefaultMapperCollection.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONAware.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JStylerObj.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONArray.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParserBase.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/FakeMapper.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONStyle.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParserStream.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/BeansMapper.java
- * /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONStreamAwareEx.java

1.109 jcip-annotation 1.0-1

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- * /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/ThreadSafe.java

1.110 jnr-a64asm 1.0.0

1.111 lombok 1.18.24

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1.112 netty-transport 4.1.84.Final

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* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io.netty/channel/socket/nio/NioChannelOption.java

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* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java

* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/bootstrap/FailedChannel.java

* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java

* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java

* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java

* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/internal/package-info.java

* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-

jar/io/netty/channel/internal/ChannelUtils.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
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jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/pool/ChannelPool.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/pool/SimpleChannelPool.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/pool/FixedChannelPool.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/pool/package-info.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/pool/ChannelPoolMap.java

* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
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* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/AbstractEventLoop.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/ChannelFactory.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/PendingWriteQueue.java
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/**

* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in

* its { @link ChannelPipeline }.

*

* <h3>Sub-types</h3>

* <p>

* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its subtypes:

*

* { @link ChannelInboundHandler } to handle inbound I/O events, and

* { @link ChannelOutboundHandler } to handle outbound I/O operations.

*

* </p>

* <p>

* Alternatively, the following adapter classes are provided for your convenience:

*

* { @link ChannelInboundHandlerAdapter } to handle inbound I/O events,

* { @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and

* { @link ChannelDuplexHandler } to handle both inbound and outbound events

*

* </p>

* <p>

* For more information, please refer to the documentation of each subtype.

* </p>

*

* <h3>The context object</h3>

* <p>

* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext } object. A { @link ChannelHandler } is supposed to interact with the { @link ChannelPipeline } it belongs to via a context object. Using the context object, the { @link ChannelHandler } can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using { @link AttributeKey }s) which is specific to the handler.

*

* <h3>State management</h3>

*

* A { @link ChannelHandler } often needs to store some stateful information.

* The simplest and recommended approach is to use member variables:

* <pre>

* public interface Message {

* // your methods here

* }

*

* public class DataServerHandler extends { @link SimpleChannelInboundHandler }<Message> {

*

* private boolean loggedIn;

*

* { @code @Override }

* public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {

* if (message instanceof LoginMessage) {

* authenticate((LoginMessage) message);

* loggedIn = true;

* } else (message instanceof GetDataMessage) {

* if (loggedIn) {

* ctx.writeAndFlush(fetchSecret((GetDataMessage) message));

* } else {

* fail();

* }

* }

* }

* ...

* }

* </pre>

* Because the handler instance has a state variable which is dedicated to

* one connection, you have to create a new handler instance for each new

* channel to avoid a race condition where a unauthenticated client can get

* the confidential information:

* <pre>

* // Create a new handler instance per channel.

* // See { @link ChannelInitializer#initChannel(Channel)}.

* public class DataServerInitializer extends { @link ChannelInitializer }<{ @link Channel }> {

* { @code @Override }

* public void initChannel({ @link Channel } channel) {

```

*     channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*   }
* }
*
* </pre>

```

* <h4>Using { @link AttributeKey}s</h4>

* Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use { @link AttributeKey}s which is provided by { @link ChannelHandlerContext}:

```

* <pre>
* public interface Message {
*   // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;Message&gt; {
*   private final { @link AttributeKey}&lt;Boolean&gt; auth =
*     { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*   { @code @Override}
*   public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
*     { @link Attribute}&lt;Boolean&gt; attr = ctx.attr(auth);
*     if (message instanceof LoginMessage) {
*       authenticate((LoginMessage) o);
*       <b>attr.set(true)</b>;
*     } else (message instanceof GetDataMessage) {
*       if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*       } else {
*         fail();
*       }
*     }
*   }
* }
* ...
* }
* </pre>

```

* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the same handler instance to different pipelines:

```

* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;Channel&gt; {
*
*   private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*   { @code @Override}
*   public void initChannel({ @link Channel} channel) {

```

```

*     channel.pipeline().addLast("handler", <b>SHARED</b>);
*   }
* }
* </pre>
*
*
* <h4>The { @code @Sharable } annotation</h4>
* <p>
* In the example above which used an { @link AttributeKey },
* you might have noticed the { @code @Sharable } annotation.
* <p>
* If a { @link ChannelHandler } is annotated with the { @code @Sharable }
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline }s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler }, and
* { @link ChannelPipeline } to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

```

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```

* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
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Found in path(s):

- * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
- * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java
- * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/DefaultChannelConfig.java
- * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/nio/NioTask.java
- * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
- * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java
- * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java
- * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java
- * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java
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- * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
- * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/ChannelPipelineException.java
- * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/ChannelConfig.java
- * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/embedded/package-info.java
- * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java
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- * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/FixedRecvByteBufferAllocator.java
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- * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/package-info.java
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* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
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* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
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* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/DefaultEventLoop.java

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* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
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* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/group/ChannelMatchers.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java

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Found in path(s):

* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-jar/META-INF/native-image/io.netty.transport/native-image.properties

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 */
```

Found in path(s):

```
 * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/bootstrap/AbstractBootstrapConfig.java
 * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/bootstrap/BootstrapConfig.java
 * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/group/VoidChannelGroupFuture.java
 * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/ChannelInboundInvoker.java
 * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/socket/DuplexChannel.java
 * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/ChannelOutboundInvoker.java
 * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/PreferHeapByteBufAllocator.java
 * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/bootstrap/ServerBootstrapConfig.java
 * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/DefaultSelectStrategy.java
 * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/SelectStrategyFactory.java
 * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/DefaultSelectStrategyFactory.java
 * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/SelectStrategy.java
 * /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/WriteBufferWaterMark.java
```

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*/

Found in path(s):

* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/socket/nio/SelectorProviderUtil.java

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Found in path(s):

* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/StacklessClosedChannelException.java

* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/socket/DuplexChannelConfig.java

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Found in path(s):

* /opt/cola/permits/1448934408_1666395799.5269384/0/netty-transport-4-1-84-final-sources-
jar/io/netty/channel/CoalescingBufferQueue.java

1.113 jboss-marshalling-river 2.0.11.Final

1.113.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/META-
INF/maven/org.jboss.marshalling/jboss-marshalling-river/pom.xml

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Found in path(s):

- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/BasicSerializableClassDescriptor.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/BlockMarshaller.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/Protocol.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/RiverMarshallerFactory.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/SimpleClassDescriptor.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/SerializableClassDescriptor.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/RiverProviderDescriptor.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/ClassDescriptor.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/package-info.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/RiverUnmarshaller.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/Validator.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/FutureSerializableClassDescriptor.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/BlockUnmarshaller.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/RiverObjectOutputStream.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/RiverMarshaller.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/RiverObjectInputStream.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/RiverPutField.java
- * /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/ClassDescriptors.java

```
* /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/SerializableGapClassDescriptor.java
* /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/org/jboss/marshalling/river/ExternalizerClassDescriptor.java
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#
#
# River protocol provider
#
org.jboss.marshalling.river.RiverProviderDescriptor

Found in path(s):
* /opt/cola/permits/1300532307_1649153504.59/0/jboss-marshalling-river-2-0-11-final-sources-1-jar/META-INF/services/org.jboss.marshalling.ProviderDescriptor
```

1.114 netty 4.1.84.Final

1.114.1 Available under license :

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Manifest-Version: 1.0

Implementation-Title: Netty/Transport/Native/Epoll

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport.epoll.linux.aarch_64

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.transport-native-epoll

Implementation-Version: 4.1.84.Final

Built-By: root
Bnd-LastModified: 1665530647389
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Fragment-Host: io.netty.transport-classes-epoll
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Transport/Native/Epoll
Bundle-Version: 4.1.84.Final
Bundle-NativeCode: META-INF/native/libnetty_transport_native_epoll_aarch_64.so; osname=Linux; processor=aarch64,*
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_345
Implementation-URL: <https://netty.io/netty-transport-native-epoll/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-native-epoll-4-1-84-final-linux-aarch-64-jar/META-INF/MANIFEST.MF

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Manifest-Version: 1.0
Implementation-Title: Netty/Transport/Classes/Epoll
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.transport.classes.epoll
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.transport-classes-epoll
Implementation-Version: 4.1.84.Final
Built-By: root
Bnd-LastModified: 1665530795721
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel,io.netty.channel.socket;version="[4.1,5)",io.netty.channel.unix;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.channel.epoll;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.channel.unix,io.netty.util,io.netty.util.concurrent";version="4.1.84"
Bundle-Name: Netty/Transport/Classes/Epoll
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_345
Implementation-URL: <https://netty.io/netty-transport-classes-epoll/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-classes-epoll-4-1-84-final-jar/META-INF/MANIFEST.MF

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Manifest-Version: 1.0
Implementation-Title: Netty/Resolver
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.resolver
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.resolver
Implementation-Version: 4.1.84.Final
Built-By: chris
Bnd-LastModified: 1665536099598
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.resolver;uses:="io.netty.util.concurrent";version="4.1.84"
Bundle-Name: Netty/Resolver
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312
Implementation-URL: <https://netty.io/netty-resolver/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-resolver-4-1-84-final-jar/META-INF/MANIFEST.MF

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Manifest-Version: 1.0

Implementation-Title: Netty/Codec/Stomp

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.codec.stomp

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.codec.stomp

Implementation-Version: 4.1.84.Final

Built-By: root

Bnd-LastModified: 1665530737726

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.handler.codec,io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.handler.codec.stomp;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.util";version="4.1.84"

Bundle-Name: Netty/Codec/Stomp

Bundle-Version: 4.1.84.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_345

Implementation-URL: <https://netty.io/netty-codec-stomp/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-stomp-4-1-84-final-jar/META-INF/MANIFEST.MF

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Manifest-Version: 1.0

Implementation-Title: Netty/Transport/Classes/KQueue

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport.classes.kqueue

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.transport-classes-kqueue
Implementation-Version: 4.1.84.Final
Built-By: chris
Bnd-LastModified: 1665536191827
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel,io.netty.channel.socket;version="[4.1,5)",io.netty.channel.unix;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.channel.kqueue;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.channel.unix,io.netty.util.concurrent";version="4.1.84"
Bundle-Name: Netty/Transport/Classes/KQueue
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312
Implementation-URL: <https://netty.io/netty-transport-classes-kqueue/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-classes-kqueue-4-1-84-final-jar/META-INF/MANIFEST.MF

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Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-handler-4-1-84-final-jar/META-INF/native-image/io.netty.handler/native-image.properties

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-buffer-4-1-84-final-jar/META-INF/native-image/io.netty.buffer/native-image.properties

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-http-4-1-84-final-jar/META-INF/native-image/io.netty.codec-http/native-image.properties

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-common-4-1-84-final-jar/META-INF/native-image/io.netty.common/native-image.properties

```
* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-resolver-dns-4-1-84-final-jar/META-INF/native-image/io.netty/resolver-dns/native-image.properties
* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-4-1-84-final-jar/META-INF/native-image/io.netty/transport/native-image.properties
* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-4-1-84-final-jar/META-INF/native-image/codec-handlers/native-image.properties
* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-http2-4-1-84-final-jar/META-INF/native-image/io.netty/codec-http2/native-image.properties
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```

```
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```

Found in path(s):

```
* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-resolver-dns-native-macos-4-1-84-final-osx-aarch-64-jar/META-INF/maven/io.netty/netty-resolver-dns-native-macos/pom.xml
* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-resolver-dns-native-macos-4-1-84-final-osx-x86-64-jar/META-INF/maven/io.netty/netty-resolver-dns-native-macos/pom.xml
No license file was found, but licenses were detected in source scan.
```

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```

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-rxtx-4-1-84-final-jar/META-INF/maven/io.netty/netty-transport-rxtx/pom.xml

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-memcache-4-1-84-final-jar/META-INF/maven/io.netty/netty-codec-memcache/pom.xml

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

Manifest-Version: 1.0

Implementation-Title: Netty/Handler/Proxy

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.handler.proxy

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.handler-proxy

Implementation-Version: 4.1.84.Final

Built-By: root

Bnd-LastModified: 1665530752897

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.handler.codec.base64;version="[4.1,5)",io.netty.handler.codec.http;version="[4.1,5)",io.netty.handler.codec.socksv4;version="[4.1,5)",io.netty.handler.codec.socksv5;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.handler.proxy;uses="io.netty.channel,io.netty.handler.codec.http,io.netty.util.concurrent";version="4.1.84"

Bundle-Name: Netty/Handler/Proxy

Bundle-Version: 4.1.84.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_345

Implementation-URL: <https://netty.io/netty-handler-proxy/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-handler-proxy-4-1-84-final-jar/META-INF/MANIFEST.MF

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

Manifest-Version: 1.0
Implementation-Title: Netty/Codec/SMTP
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.codec.smtp
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.codec-smtp
Implementation-Version: 4.1.84.Final
Built-By: root
Bnd-LastModified: 1665530720384
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.handler.codec,io.netty.util;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.handler.codec.smtp;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.util";version="4.1.84"
Bundle-Name: Netty/Codec/SMTP
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_345
Implementation-URL: <https://netty.io/netty-codec-smtp/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-smtp-4-1-84-final-jar/META-INF/MANIFEST.MF

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Manifest-Version: 1.0
Implementation-Title: Netty/Transport/RXTX
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.transport.rxtx
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.transport-rxtx
Implementation-Version: 4.1.84.Final
Built-By: root
Bnd-LastModified: 1665530771319
Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: gnu.io,io.netty.buffer;version="[4.1,5)",io.netty.channel,io.netty.channel.oio;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.channel.rxtx;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.oio";version="4.1.84"
Bundle-Name: Netty/Transport/RXTX
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_345
Implementation-URL: <https://netty.io/netty-transport-rxtx/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-rxtx-4-1-84-final-jar/META-INF/MANIFEST.MF

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

Manifest-Version: 1.0
Implementation-Title: Netty/Transport/Native/Epoll
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.transport.epoll.linux.x86_64
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.transport-native-epoll
Implementation-Version: 4.1.84.Final
Built-By: root
Bnd-LastModified: 1665530839687
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Fragment-Host: io.netty.transport-classes-epoll
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Transport/Native/Epoll
Bundle-Version: 4.1.84.Final

Bundle-NativeCode: META-INF/native/libnetty_transport_native_epoll_x86_64.so; osname=Linux; processor=x86_64,*
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_345
Implementation-URL: <https://netty.io/netty-transport-native-epoll/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-native-epoll-4-1-84-final-linux-x86-64-jar/META-INF/MANIFEST.MF

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

Manifest-Version: 1.0

Implementation-Title: Netty/Codec/Memcache

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.codec.memcache

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.codec-memcache

Implementation-Version: 4.1.84.Final

Built-By: root

Bnd-LastModified: 1665530696789

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.handler.codec,io.netty.util;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.handler.codec.memcache;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.util";version="4.1.84",io.netty.handler.codec.memcache.binary;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec.memcache,io.netty.util";version="4.1.84"

Bundle-Name: Netty/Codec/Memcache

Bundle-Version: 4.1.84.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_345

Implementation-URL: <https://netty.io/netty-codec-memcache/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-memcache-4-1-84-final-jar/META-INF/MANIFEST.MF

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

Manifest-Version: 1.0
Implementation-Title: Netty/Codec/MQTT
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.codec.mqtt
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.codec-mqtt
Implementation-Version: 4.1.84.Final
Built-By: root
Bnd-LastModified: 1665530705707
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.handler.codec,io.netty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.handler.codec.mqtt;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.util";version="4.1.84"
Bundle-Name: Netty/Codec/MQTT
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_345
Implementation-URL: <https://netty.io/netty-codec-mqtt/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-mqtt-4-1-84-final-jar/META-INF/MANIFEST.MF

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Manifest-Version: 1.0
Implementation-Title: Netty/Codec/DNS
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.codec.dns
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.codec-dns
Implementation-Version: 4.1.84.Final

Built-By: chris
Bnd-LastModified: 1665536126144
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.socket;version="[4.1,5)",io.netty.handler.codec,io.netty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.handler.codec.dns;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.handler.codec,io.netty.util";version="4.1.84"
Bundle-Name: Netty/Codec/DNS
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312
Implementation-URL: <https://netty.io/netty-codec-dns/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-dns-4-1-84-final-jar/META-INF/MANIFEST.MF

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

Manifest-Version: 1.0
Implementation-Title: Netty/Codec/XML
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.codec.xml
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.codec-xml
Implementation-Version: 4.1.84.Final
Built-By: root
Bnd-LastModified: 1665530744768
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: com.fasterxml.aalto;version="[1.0,2)",com.fasterxml.aalto.stax;version="[1.0,2)",io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.handler.codec,javax.xml.namespace

,javax.xml.stream,sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2]";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2]";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.handler.codec.xml;version="4.1.84";uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec"
Bundle-Name: Netty/Codec/XML
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_345
Implementation-URL: <https://netty.io/netty-codec-xml/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-xml-4-1-84-final-jar/META-INF/MANIFEST.MF

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Manifest-Version: 1.0
Implementation-Title: Netty/Buffer
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.buffer
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.buffer
Implementation-Version: 4.1.84.Final
Built-By: chris
Bnd-LastModified: 1665536089073
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2]";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2]";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.buffer;uses:="io.netty.util";version="4.1.84",io.netty.buffer.search;uses:="io.netty.util";version="4.1.84"
Bundle-Name: Netty/Buffer
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312

Implementation-URL: <https://netty.io/netty-buffer/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-buffer-4-1-84-final-jar/META-INF/MANIFEST.MF

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* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-redis-4-1-84-final-jar/META-INF/maven/io.netty/netty-codec-redis/pom.xml

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-native-kqueue-4-1-84-final-osx-x86-64-jar/META-INF/maven/io.netty/netty-transport-native-kqueue/pom.xml

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-native-unix-common-4-1-84-final-jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-smtp-4-1-84-final-jar/META-INF/maven/io.netty/netty-codec-smtp/pom.xml

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Found in path(s):

- * /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-haproxy-4-1-84-final-jar/META-INF/maven/io.netty/netty-codec-haproxy/pom.xml
- * /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-common-4-1-84-final-jar/META-INF/maven/io.netty/netty-common/pom.xml
- * /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-4-1-84-final-jar/META-INF/maven/io.netty/netty-codec/pom.xml
- * /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-handler-4-1-84-final-jar/META-INF/maven/io.netty/netty-handler/pom.xml
- * /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-4-1-84-final-jar/META-INF/maven/io.netty/netty-transport/pom.xml
- * /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-all-4-1-84-final-jar/META-INF/maven/io.netty/netty-all/pom.xml
- * /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-http-4-1-84-final-jar/META-INF/maven/io.netty/netty-codec-http/pom.xml
- * /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-sctp-4-1-84-final-jar/META-INF/maven/io.netty/netty-transport-sctp/pom.xml
- * /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-udt-4-1-84-final-jar/META-INF/maven/io.netty/netty-transport-udt/pom.xml
- * /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-buffer-4-1-84-final-jar/META-INF/maven/io.netty/netty-buffer/pom.xml
- * /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-socks-4-1-84-final-jar/META-INF/maven/io.netty/netty-codec-socks/pom.xml

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

Manifest-Version: 1.0

Implementation-Title: Netty/Transport

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.transport

Implementation-Version: 4.1.84.Final

Built-By: chris

Bnd-LastModified: 1665536107256

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.resolver;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=opt

ional,org.eclipse.jetty.npn;version="[1,2]";resolution:=optional,org.
eclipse.jetty.alpn;version="[1,2]";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.bootstrap;uses:="io.netty.channel,io.netty.re
solver,io.netty.util";version="4.1.84",io.netty.channel;uses:="io.net
ty.bootstrap,io.netty.buffer,io.netty.util,io.netty.util.concurrent";
version="4.1.84",io.netty.channel.embedded;uses:="io.netty.channel";v
ersion="4.1.84",io.netty.channel.group;uses:="io.netty.channel,io.net
ty.util.concurrent";version="4.1.84",io.netty.channel.internal;versio
n="4.1.84",io.netty.channel.local;uses:="io.netty.channel";version="4
.1.84",io.netty.channel.nio;uses:="io.netty.buffer,io.netty.channel,i
o.netty.util,io.netty.util.concurrent";version="4.1.84",io.netty.chan
nel.oio;uses:="io.netty.buffer,io.netty.channel";version="4.1.84",io.
netty.channel.pool;uses:="io.netty.bootstrap,io.netty.channel,io.nett
y.util.concurrent";version="4.1.84",io.netty.channel.socket;uses:="io
.netty.buffer,io.netty.channel,io.netty.util";version="4.1.84",io.net
ty.channel.socket.nio;uses:="io.netty.buffer,io.netty.channel,io.nett
y.channel.nio,io.netty.channel.socket";version="4.1.84",io.netty.chan
nel.socket.oio;uses:="io.netty.buffer,io.netty.channel,io.netty.chann
el.oio,io.netty.channel.socket";version="4.1.84"
Bundle-Name: Netty/Transport
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312
Implementation-URL: <https://netty.io/netty-transport/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-4-1-84-final-jar/META-
INF/MANIFEST.MF

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

Manifest-Version: 1.0

Implementation-Title: Netty/Resolver/DNS

Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.

Automatic-Module-Name: io.netty.resolver.dns

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.resolver-dns

Implementation-Version: 4.1.84.Final

Built-By: chris

Bnd-LastModified: 1665536166837

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.bootstrap;version="[4.1,5)",io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.socket;version="[4.1,5)",io.netty.handler.codec;version="[4.1,5)",io.netty.handler.codec.dns;version="[4.1,5)",io.netty.handler.logging;version="[4.1,5)",io.netty.resolver,io.netty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",javax.naming,javax.naming.directory,sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.resolver.dns;uses:="io.netty.channel,io.netty.channel.socket,io.netty.handler.codec.dns,io.netty.handler.logging,io.netty.resolver,io.netty.util.concurrent";version="4.1.84"
Bundle-Name: Netty/Resolver/DNS
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312
Implementation-URL: <https://netty.io/netty-resolver-dns/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-resolver-dns-4-1-84-final-jar/META-INF/MANIFEST.MF

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

Manifest-Version: 1.0
Implementation-Title: Netty/Codec/HTTP
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.codec.http
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.codec-http
Implementation-Version: 4.1.84.Final
Built-By: chris
Bnd-LastModified: 1665536154725
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: com.aayushatharva.brotli4j.encoder;resolution:=optional,com.jcraft.jzlib;resolution:=optional,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.embedded;version="[4.1,5)",io.netty.handler.codec,io.netty.handler.codec.base64;version="[4.1,5)",io.netty.handler.codec.compression;version="[4.1,5)"

,io.netty.handler.ssl;version="[4.1,5)",io.netty.handler.stream;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.handler.codec.http;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.embedded,io.netty.handler.codec,io.netty.handler.codec.compression,io.netty.handler.codec.http.cookie,io.netty.handler.stream,io.netty.util";version="4.1.84",io.netty.handler.codec.http.cookie;version="4.1.84",io.netty.handler.codec.http.cors;uses:="io.netty.channel,io.netty.handler.codec.http";version="4.1.84",io.netty.handler.codec.http.multipart;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.handler.stream,io.netty.util";version="4.1.84",io.netty.handler.codec.http.websocketx;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.handler.stream,io.netty.util,io.netty.util.internal.logging";version="4.1.84",io.netty.handler.codec.http.websocketx.extensions;uses:="io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http.websocketx";version="4.1.84",io.netty.handler.codec.http.websocketx.extensions.compression;uses:="io.netty.channel,io.netty.handler.codec.http.websocketx.extensions";version="4.1.84",io.netty.handler.codec.rtsp;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec.http,io.netty.util";version="4.1.84",io.netty.handler.codec.spdy;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.util";version="4.1.84"

Bundle-Name: Netty/Codec/HTTP

Bundle-Version: 4.1.84.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_312

Implementation-URL: <https://netty.io/netty-codec-http/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-http-4-1-84-final-jar/META-INF/MANIFEST.MF

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

Manifest-Version: 1.0

Implementation-Title: Netty/Codec/HTTP2

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.codec.http2

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.codec-http2
Implementation-Version: 4.1.84.Final
Built-By: root
Bnd-LastModified: 1665530684622
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: com.aayushatharva.brotli4j.encoder;resolution:=optional,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.embedded;version="[4.1,5)",io.netty.handler.codec,io.netty.handler.codec.base64;version="[4.1,5)",io.netty.handler.codec.compression;version="[4.1,5)",io.netty.handler.codec.http;version="[4.1,5)",io.netty.handler.logging;version="[4.1,5)",io.netty.handler.ssl;version="[4.1,5)",io.netty.handler.stream;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",javax.net.ssl,sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.handler.codec.http2;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.embedded,io.netty.handler.codec,io.netty.handler.codec.compression,io.netty.handler.codec.http,io.netty.handler.logging,io.netty.handler.stream,io.netty.util,io.netty.util.collection,io.netty.util.concurrent";version="4.1.84"
Bundle-Name: Netty/Codec/HTTP2
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_345
Implementation-URL: https://netty.io/netty-codec-http2/

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-http2-4-1-84-final-jar/META-INF/MANIFEST.MF

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

Manifest-Version: 1.0

Implementation-Title: Netty/Transport/Native/KQueue

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport.kqueue.osx.aarch_64

Bundle-License: https://www.apache.org/licenses/LICENSE-2.0

Bundle-SymbolicName: io.netty.transport-native-kqueue

Implementation-Version: 4.1.84.Final
Built-By: chris
Bnd-LastModified: 1665536238968
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;
version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="
[1,2)";resolution:=optional
Fragment-Host: io.netty.transport-classes-kqueue
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Transport/Native/KQueue
Bundle-Version: 4.1.84.Final
Bundle-NativeCode: META-INF/native/libnetty_transport_native_kqueue_aa
rch_64.jnilib; osname=MacOSX; processor=aarch64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312
Implementation-URL: <https://netty.io/netty-transport-native-kqueue/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-native-kqueue-4-1-84-
final-osx-aarch-64-jar/META-INF/MANIFEST.MF

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

Manifest-Version: 1.0
Implementation-Title: Netty/Codec/Redis
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.codec.redis
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.codec-redis
Implementation-Version: 4.1.84.Final
Built-By: root
Bnd-LastModified: 1665530713550
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;ver
sion="[4.1,5)",io.netty.handler.codec,io.netty.util;version="[4.1,5)"
,io.netty.util.collection;version="[4.1,5)",io.netty.util.internal;ve
rsion="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn
;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="
[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.handler.codec.redis;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.util";version="4.1.84"
Bundle-Name: Netty/Codec/Redis
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_345
Implementation-URL: <https://netty.io/netty-codec-redis/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-redis-4-1-84-final-jar/META-INF/MANIFEST.MF

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

Manifest-Version: 1.0
Implementation-Title: Netty/Handler
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.handler
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.handler
Implementation-Version: 4.1.84.Final
Built-By: chris
Bnd-LastModified: 1665536141759
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: sun.security.x509;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.socket;version="[4.1,5)",io.netty.channel.unix;version="[4.1,5)",io.netty.handler.codec;version="[4.1,5)",io.netty.handler.codec.base64;version="[4.1,5)",io.netty.internal.tcnative;version="[2.0,3)";resolution:=optional,io.netty.resolver;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",javax.crypto,javax.crypto.spec,javax.net.ssl,javax.security.auth.x500,javax.security.cert,org.bouncycastle.asn1.pkcs;version="[1.69,2)";resolution:=optional,org.bouncycastle.asn1.x500;version="[1.69,2)";resolution:=optional,org.bouncycastle.cert;version="[1.69,2)";resolution:=optional,org.bouncycastle.cert.jcajce;version="[1.69,2)";resolution:=optional,org.bouncycastle.jce.provider;version="[1.69,2)";resolution:=optional,org.bouncycastle.openssl;version="[1.69,2)";resolution:=optional,org.bouncycastle.openssl.jcajce;version="[1.69,2)";resolution:=optional,

org.bouncycastle.operator;version="[1.69,2)";resolution:=optional,org
.bouncycastle.operator.jcajce;version="[1.69,2)";resolution:=optional
,org.bouncycastle.pkcs;version="[1.69,2)";resolution:=optional,org.co
nscrypt;version="[2.5,3)";resolution:=optional,sun.nio.ch;resolution:
=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.handler.address;uses:="io.netty.channel,io.ne
tty.resolver";version="4.1.84",io.netty.handler.flow;uses:="io.netty.
channel";version="4.1.84",io.netty.handler.flush;uses:="io.netty.chan
nel";version="4.1.84",io.netty.handler.ipfilter;uses:="io.netty.chann
el";version="4.1.84",io.netty.handler.logging;uses:="io.netty.channel
,io.netty.util.internal.logging";version="4.1.84",io.netty.handler.pc
ap;uses:="io.netty.channel";version="4.1.84",io.netty.handler.ssl;use
s:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.
util,io.netty.util.concurrent,javax.crypto,javax.net.ssl";version="4.
1.84",io.netty.handler.ssl.ocsp;uses:="io.netty.channel,io.netty.hand
ler.ssl";version="4.1.84",io.netty.handler.ssl.util;uses:="javax.net.
ssl,javax.security.auth.x500,javax.security.cert";version="4.1.84",io
.netty.handler.stream;uses:="io.netty.buffer,io.netty.channel";versio
n="4.1.84",io.netty.handler.timeout;uses:="io.netty.channel";version=
"4.1.84",io.netty.handler.traffic;uses:="io.netty.channel,io.netty.ut
il.concurrent";version="4.1.84"
Bundle-Name: Netty/Handler
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312
Implementation-URL: <https://netty.io/netty-handler/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-handler-4-1-84-final-jar/META-INF/MANIFEST.MF

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

Manifest-Version: 1.0

Implementation-Title: Netty/Common

Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.

Automatic-Module-Name: io.netty.common

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.common

Implementation-Version: 4.1.84.Final

Built-By: chris

Bnd-LastModified: 1665536065087

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: sun.misc;resolution:=optional,com.oracle.svm.core.anno
tate;resolution:=optional,javax.security.cert;resolution:=optional,or
g.apache.commons.logging;resolution:=optional;version="[1.2,2)",org.a
pache.log4j;resolution:=optional;version="[2.17,3)",org.apache.loggin
g.log4j;resolution:=optional;version="[2.17,3)",org.apache.logging.lo
g4j.message;resolution:=optional;version="[2.17,3)",org.apache.loggin
g.log4j.spi;resolution:=optional;version="[2.17,3)",org.slf4j;resolut
ion:=optional;version="[1.7,2)",org.slf4j.helpers;resolution:=optiona
l;version="[1.7,2)",org.slf4j.spi;resolution:=optional;version="[1.7,
2)",reactor.blockhound;resolution:=optional,reactor.blockhound.integr
ation;resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
DynamicImport-Package: *
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.util;uses:="io.netty.util.concurrent,io.netty
.util.internal";version="4.1.84",io.netty.util.collection;version="4.
1.84",io.netty.util.concurrent;uses:="io.netty.util.internal";version
="4.1.84",io.netty.util.internal;uses:="io.netty.util,io.netty.util.c
oncurrent,io.netty.util.internal.logging,javax.security.cert,reactor.
blockhound,reactor.blockhound.integration";version="4.1.84",io.netty.
util.internal.logging;version="4.1.84",io.netty.util.internal.svm;ver
sion="4.1.84"
Bundle-Name: Netty/Common
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312
Implementation-URL: <https://netty.io/netty-common/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-common-4-1-84-final-jar/META-
INF/MANIFEST.MF

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

Manifest-Version: 1.0
Implementation-Title: Netty/Codec/HAProxy
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.codec.haproxy
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.codec-haproxy
Implementation-Version: 4.1.84.Final
Built-By: root
Bnd-LastModified: 1665530614720
Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.handler.codec,io.netty.util;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.handler.codec.haproxy;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.util";version="4.1.84"
Bundle-Name: Netty/Codec/HAProxy
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_345
Implementation-URL: <https://netty.io/netty-codec-haproxy/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-haproxy-4-1-84-final-jar/META-INF/MANIFEST.MF

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

Manifest-Version: 1.0
Implementation-Title: Netty/Resolver/DNS/Native/MacOS
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.resolver.dns.macos.osx.aarch_64
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.resolver-dns-native-macos
Implementation-Version: 4.1.84.Final
Built-By: chris
Bnd-LastModified: 1665536208431
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Fragment-Host: io.netty.resolver-dns-classes-macos
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Resolver/DNS/Native/MacOS
Bundle-Version: 4.1.84.Final

Bundle-NativeCode: META-INF/native/libnetty_resolver_dns_native_macos_
aarch_64.jnilib; osname=MacOSX; processor=aarch64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312
Implementation-URL: <https://netty.io/netty-resolver-dns-native-macos/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-resolver-dns-native-macos-4-1-84-final-osx-aarch-64-jar/META-INF/MANIFEST.MF

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Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-native-epoll-4-1-84-final-linux-aarch-64-jar/META-INF/maven/io.netty/netty-transport-native-epoll/pom.xml

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-stomp-4-1-84-final-jar/META-INF/maven/io.netty/netty-codec-stomp/pom.xml

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-handler-proxy-4-1-84-final-jar/META-INF/maven/io.netty/netty-handler-proxy/pom.xml

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-native-epoll-4-1-84-final-linux-x86-64-jar/META-INF/maven/io.netty/netty-transport-native-epoll/pom.xml

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-xml-4-1-84-final-jar/META-INF/maven/io.netty/netty-codec-xml/pom.xml

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-http2-4-1-84-final-jar/META-INF/maven/io.netty/netty-codec-http2/pom.xml

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-resolver-dns-4-1-84-final-jar/META-INF/maven/io.netty/netty-resolver-dns/pom.xml

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-resolver-4-1-84-final-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-mqtt-4-1-84-final-jar/META-INF/maven/io.netty/netty-codec-mqtt/pom.xml

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-dns-4-1-84-final-jar/META-INF/maven/io.netty/netty-codec-dns/pom.xml

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

Manifest-Version: 1.0
Implementation-Title: Netty/Resolver/DNS/Classes/MacOS
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.resolver.dns.classes.macos
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.resolver-dns-classes-macos
Implementation-Version: 4.1.84.Final
Built-By: chris
Bnd-LastModified: 1665536198297
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: io.netty.channel.unix;version="[4.1,5)",io.netty.resolver.dns,io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.resolver.dns.macos;uses:="io.netty.resolver.dns";version="4.1.84"
Bundle-Name: Netty/Resolver/DNS/Classes/MacOS
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312
Implementation-URL: <https://netty.io/netty-resolver-dns-classes-macos/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-resolver-dns-classes-macos-4-1-84-final-jar/META-INF/MANIFEST.MF

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

Manifest-Version: 1.0
Implementation-Title: Netty/Transport/Native/KQueue
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.transport.kqueue.osx.x86_64
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.transport-native-kqueue
Implementation-Version: 4.1.84.Final
Built-By: chris

Bnd-LastModified: 1665535909603
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;
version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Fragment-Host: io.netty.transport-classes-kqueue
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Transport/Native/KQueue
Bundle-Version: 4.1.84.Final
Bundle-NativeCode: META-INF/native/libnetty_transport_native_kqueue_x86_64.jnilib; osname=MacOSX; processor=x86_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312
Implementation-URL: <https://netty.io/netty-transport-native-kqueue/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-native-kqueue-4-1-84-final-osx-x86-64-jar/META-INF/MANIFEST.MF

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

Manifest-Version: 1.0
Implementation-Title: Netty/All-in-One
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.all
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.all
Implementation-Version: 4.1.84.Final
Built-By: chris
Bnd-LastModified: 1665536438803
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/All-in-One
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312

Implementation-URL: <https://netty.io/netty-all/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-all-4-1-84-final-jar/META-INF/MANIFEST.MF

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

Manifest-Version: 1.0

Implementation-Title: Netty/Transport/Native/Unix/Common

Bundle-Description: Static library which contains common unix utilities.

Automatic-Module-Name: io.netty.transport.unix.common

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.transport-native-unix-common

Implementation-Version: 4.1.84.Final

Built-By: chris

Bnd-LastModified: 1665536132491

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel,io.

netty.channel.socket;version="[4.1,5)",io.netty.util;version="[4.1,5)

",io.netty.util.internal;version="[4.1,5)",sun.nio.ch;resolution:=opt

ional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.

eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.channel.unix;uses="io.netty.buffer,io.netty.

channel,io.netty.channel.socket,io.netty.util";version="4.1.84"

Bundle-Name: Netty/Transport/Native/Unix/Common

Bundle-Version: 4.1.84.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_312

Implementation-URL: <https://netty.io/netty-transport-native-unix-common/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-native-unix-common-4-1-84-final-jar/META-INF/MANIFEST.MF

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* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-resolver-dns-classes-macos-4-1-84-final-jar/META-INF/maven/io.netty/netty-resolver-dns-classes-macos/pom.xml
* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-classes-epoll-4-1-84-final-jar/META-INF/maven/io.netty/netty-transport-classes-epoll/pom.xml
* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-classes-kqueue-4-1-84-final-jar/META-INF/maven/io.netty/netty-transport-classes-kqueue/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Codec

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.codec

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.codec

Implementation-Version: 4.1.84.Final

Built-By: chris

Bnd-LastModified: 1665536118386

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: com.aayushatharva.brotli4j;resolution:=optional,com.aayushatharva.brotli4j.decoder;resolution:=optional,com.aayushatharva.brotli4j.encoder;resolution:=optional,com.github.luben.zstd;version="[1.5,2)";resolution:=optional,com.google.protobuf;version="[2.6,3)";resolution:=optional,com.google.protobuf.nano;resolution:=optional,com.jcraft.jzlib;resolution:=optional,com.ning.compress;version="[1.0,2)";resolution:=optional,com.ning.compress.lzf;version="[1.0,2)";resolution:=optional,com.ning.compress.lzf.util;version="[1.0,2)";resolution:=optional,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.socket;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",lzma.sdk;resolution:=optional,lzma.sdk.lzma;resolution:=op

tional,net.jpountz.lz4;resolution:=optional,net.jpountz.xxhash;resolution:=optional,org.jboss.marshalling;resolution:=optional,sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2]";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2]";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.handler.codec;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.util";version="4.1.84",io.netty.handler.codec.base64;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.84",io.netty.handler.codec.bytes;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.84",io.netty.handler.codec.compression;uses:="com.aayushatharva.brotli4j.encoder,io.netty.buffer,io.netty.channel,io.netty.handler.codec,net.jpountz.lz4";version="4.1.84",io.netty.handler.codec.json;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.84",io.netty.handler.codec.marshalling;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,org.jboss.marshalling";version="4.1.84",io.netty.handler.codec.protobuf;uses:="com.google.protobuf,com.google.protobuf.nano,io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.84",io.netty.handler.codec.serialization;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.84",io.netty.handler.codec.string;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.84",io.netty.handler.codec.xml;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.84"

Bundle-Name: Netty/Codec

Bundle-Version: 4.1.84.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_312

Implementation-URL: <https://netty.io/netty-codec/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-4-1-84-final-jar/META-INF/MANIFEST.MF

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Manifest-Version: 1.0

Implementation-Title: Netty/Codec/Socks

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.codec.socks

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.codec-socks

Implementation-Version: 4.1.84.Final

Built-By: root

Bnd-LastModified: 1665530729489
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.handler.codec,io.netty.util;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.handler.codec.socks;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.84",io.netty.handler.codec.socksx;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.socksx.v5";version="4.1.84",io.netty.handler.codec.socksx.v4;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.socksx";version="4.1.84",io.netty.handler.codec.socksx.v5;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.socksx";version="4.1.84".84"
Bundle-Name: Netty/Codec/Socks
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_345
Implementation-URL: https://netty.io/netty-codec-socks/

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-codec-socks-4-1-84-final-jar/META-INF/MANIFEST.MF

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io.netty.util.internal.Hidden$NettyBlockHoundIntegration
```

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-common-4-1-84-final-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration

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

Manifest-Version: 1.0

Implementation-Title: Netty/Resolver/DNS/Native/MacOS

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.resolver.dns.macos.osx.x86_64

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.resolver-dns-native-macos

Implementation-Version: 4.1.84.Final

Built-By: chris

Bnd-LastModified: 1665535877408

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Fragment-Host: io.netty.resolver-dns-classes-macos

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Bundle-Name: Netty/Resolver/DNS/Native/MacOS

Bundle-Version: 4.1.84.Final

Bundle-NativeCode: META-INF/native/libnetty_resolver_dns_native_macos_x86_64.jnilib; osname=MacOSX; processor=x86_64

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_312

Implementation-URL: <https://netty.io/netty-resolver-dns-native-macos/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-resolver-dns-native-macos-4-1-84-final-osx-x86-64-jar/META-INF/MANIFEST.MF

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

Manifest-Version: 1.0

Implementation-Title: Netty/Transport/SCTP

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport.sctp

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.transport-sctp

Implementation-Version: 4.1.84.Final
Built-By: chris
Bnd-LastModified: 1665536172875
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel,io.netty.channel.nio;version="[4.1,5)",io.netty.channel.oio;version="[4.1,5)",io.netty.handler.codec,io.netty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.channel.sctp;uses:="io.netty.buffer,io.netty.channel,io.netty.util";version="4.1.84",io.netty.channel.sctp.nio;uses:="io.netty.channel,io.netty.channel.nio,io.netty.channel.sctp";version="4.1.84",io.netty.channel.sctp.oio;uses:="io.netty.channel,io.netty.channel.oio,io.netty.channel.sctp";version="4.1.84",io.netty.handler.codec.sctp;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.sctp,io.netty.handler.codec";version="4.1.84"
Bundle-Name: Netty/Transport/SCTP
Bundle-Version: 4.1.84.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312
Implementation-URL: <https://netty.io/netty-transport-sctp/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-sctp-4-1-84-final-jar/META-INF/MANIFEST.MF

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>
```

```
<artifactId>jctools-core</artifactId>
```

```
<groupId>org.jctools</groupId>
```

```
<version>3.1.0</version>
```

```
<name>Java Concurrency Tools Core Library</name>
```

```
<description>Java Concurrency Tools Core Library</description>
```

```
<packaging>bundle</packaging>
```

```
<dependencies>
```

```
<dependency>
```

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<groupId>org.hamcrest</groupId>
<artifactId>hamcrest-all</artifactId>
<version>${hamcrest.version}</version>
<scope>test</scope>
</dependency>

<dependency>
<groupId>junit</groupId>
<artifactId>junit</artifactId>
<version>${junit.version}</version>
<scope>test</scope>
</dependency>

<dependency>
<groupId>com.google.guava</groupId>
<artifactId>guava-testlib</artifactId>
<version>${guava-testlib.version}</version>
<scope>test</scope>
</dependency>
</dependencies>
<build>
<plugins>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-surefire-plugin</artifactId>
<version>3.0.0-M3</version>
<configuration>
<includes>
<include>*</include>
</includes>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.felix</groupId>
<artifactId>maven-bundle-plugin</artifactId>
<version>4.2.1</version>
<extensions>>true</extensions>
<configuration>
<instructions>
<Import-Package>sun.misc;resolution:=optional</Import-Package>
</instructions>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-source-plugin</artifactId>
<version>3.2.0</version>
<executions>

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<execution>
  <id>attach-sources</id>
  <phase>verify</phase>
  <goals>
    <goal>jar-no-fork</goal>
  </goals>
</execution>
</executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>3.1.1</version>
  <configuration>
    <additionalOptions>
      <additionalOption>-Xdoclint:none</additionalOption>
    </additionalOptions>
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  </configuration>
  <executions>
    <execution>
      <id>attach-javadocs</id>
      <goals>
        <goal>jar</goal>
      </goals>
    </execution>
  </executions>
</plugin>
</plugins>
</build>

<distributionManagement>
  <repository>
    <id>bintray-jctools-jctools</id>
    <name>jctools-jctools</name>
    <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
  </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
  <license>
    <name>Apache License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>

```

```

</licenses>

<scm>
<url>https://github.com/JCTools/JCTools</url>
<connection>scm:git:https://github.com/JCTools/JCTools</connection>
<tag>HEAD</tag>
</scm>

<developers>
<developer>
<url>https://github.com/nitsanw</url>
</developer>
<developer>
<url>https://github.com/mjpt777</url>
</developer>
<developer>
<url>https://github.com/RichardWarburton</url>
</developer>
<developer>
<url>https://github.com/kay</url>
</developer>
<developer>
<url>https://github.com/franz1981</url>
</developer>
</developers>

<prerequisites>
<maven>3.5.0</maven>
</prerequisites>

<properties>
<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
<java.version>1.6</java.version>
<java.test.version>1.8</java.test.version>

<maven.compiler.source>${java.version}</maven.compiler.source>
<maven.compiler.target>${java.version}</maven.compiler.target>
<maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
<maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

<hamcrest.version>1.3</hamcrest.version>
<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>

```

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-common-4-1-84-final-jar/META-

INF/maven/org.jctools/jctools-core/pom.xml

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

Manifest-Version: 1.0

Implementation-Title: Netty/Transport/UDT

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport.udt

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.transport-udt

Implementation-Version: 4.1.84.Final

Built-By: chris

Bnd-LastModified: 1665536186061

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: com.barchart.udt;version="[2.3,3)",com.barchart.udt.nio;version="[2.3,3)",io.netty.buffer;version="[4.1,5)",io.netty.channel,io.netty.channel.nio;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.channel.udt;uses:="com.barchart.udt.nio,io.netty.buffer,io.netty.channel,io.netty.util";version="4.1.84",io.netty.channel.udt.nio;uses:="com.barchart.udt,com.barchart.udt.nio,io.netty.buffer,io.netty.channel,io.netty.channel.nio,io.netty.channel.udt,io.netty.util.internal.logging";version="4.1.84"

Bundle-Name: Netty/Transport/UDT

Bundle-Version: 4.1.84.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_312

Implementation-URL: <https://netty.io/netty-transport-udt/>

Found in path(s):

* /opt/cola/permits/1448934529_1673476539.4386582/0/jar-files-1-11-zip/netty-transport-udt-4-1-84-final-jar/META-INF/MANIFEST.MF

1.115 objenesis 3.1

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// -----
```

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1.116 springfoxswagger 2.9.2

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 * limitations under the License.
 *
 *
 */
```

Found in path(s):

```
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/mappers/InheritanceDeterminer.java
```

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 *
 *
 */
```

Found in path(s):

```
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/mappers/ModelMapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/mappers/OAuth2AuthFactory.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/mappers/ParameterMapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/configuration/Swagger2JacksonModule.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/mappers/ApiKeyAuthFactory.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/mappers/BasicAuthFactory.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/mappers/VendorExtensionsMapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/mappers/SecurityMapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/mappers/SerializableParameterFactories.java
```

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```

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*
*
*/

Found in path(s):

* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/LicenseMapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/SecuritySchemeFactory.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/annotations/EnableSwagger2.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/ServiceModelToSwagger2Mapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/configuration/Swagger2DocumentationConfiguration.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/SerializableParameterFactory.java
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*
*
*/

Found in path(s):

```
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/mappers/EnumMapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/mappers/Properties.java
No license file was found, but licenses were detected in source scan.
```

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*
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```

Found in path(s):

```
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/web/Swagger2Controller.java
```

1.117 netty-resolver 4.1.84.Final

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* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/io/netty/resolver/HostsFileEntriesProvider.java

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* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/io/netty/resolver/HostsFileEntries.java

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* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

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* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/io/netty/resolver/SimpleNameResolver.java

* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/io/netty/resolver/package-info.java

* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java

* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/io/netty/resolver/AddressResolverGroup.java

* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/io/netty/resolver/NoopAddressResolver.java

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* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java

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* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java

* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java

* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java

* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/io/netty/resolver/HostsFileParser.java

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* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/io/netty/resolver/CompositeNameResolver.java

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* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java

* /opt/cola/permits/1448934522_1666395834.086328/0/netty-resolver-4-1-84-final-sources-jar/io/netty/resolver/InetAddressResolver.java

1.118 commons-codec 1.15

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1.119 spring-framework 5.3.23

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* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-
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1.122 spring-data-commons 2.7.5

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1.123 hdrhistogram 2.1.12

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```

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*/
```

Found in path(s):

```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-  
jar/org/HdrHistogram/WriterReaderPhaser.java
```

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```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-  
jar/org/HdrHistogram/DoublePercentileIterator.java
```

```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-  
jar/org/HdrHistogram/ZigZagEncoding.java
```

```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-  
jar/org/HdrHistogram/AllValuesIterator.java
```

```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-  
jar/org/HdrHistogram/Base64Helper.java
```

```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-  
jar/org/HdrHistogram/IntCountsHistogram.java
```

```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-  
jar/org/HdrHistogram/DoubleLinearIterator.java
```

```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-  
jar/org/HdrHistogram/PackedConcurrentDoubleHistogram.java
```

```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-  
jar/org/HdrHistogram/SynchronizedHistogram.java
```

* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/packedarray/PackedArraySingleWriterRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Histogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/LogarithmicIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Version.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/RecordedValuesIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/LinearIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PackedDoubleHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/AtomicHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramIterationValue.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Recorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/ConcurrentDoubleHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramLogReader.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramLogProcessor.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PackedHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleHistogramIterationValue.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/AbstractHistogramIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/SynchronizedDoubleHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PercentileIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PackedConcurrentHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleAllValuesIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/SingleWriterRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-

```
jar/org/HdrHistogram/DoubleLogarithmicIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/ShortCountsHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/EncodableHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/HistogramLogScanner.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/packedarray/PackedArrayRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/ConcurrentHistogram.java
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*
* @author Gil Tene
*/
```

Found in path(s):

```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/AbstractHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/DoubleHistogram.java
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* package-info.java
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```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/package-
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*
* @author Gil Tene
*/
```

```
package org.HdrHistogram;
```

```
final class Version {
```

```
public static final String version="$VERSION$";
public static final String build_time="$BUILD_TIME$";
}
```

Found in path(s):

* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Version.java.template

1.124 jffi 1.3.9

1.125 commons-io 2.11.0

1.125.1 Available under license :

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1.126 mockito 3.6.28

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1.127 byte-buddy-agent 1.12.18

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1.128 reflectasm 1.11.9

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*
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*/
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```
* /opt/cola/permits/1125727006_1615664194.51/0/reflectasm-1-11-9-sources-  
jar/com/esotericsoftware/reflectasm/FieldAccess.java
```

```
* /opt/cola/permits/1125727006_1615664194.51/0/reflectasm-1-11-9-sources-  
jar/com/esotericsoftware/reflectasm/AccessClassLoader.java  
* /opt/cola/permits/1125727006_1615664194.51/0/reflectasm-1-11-9-sources-  
jar/com/esotericsoftware/reflectasm/ConstructorAccess.java  
* /opt/cola/permits/1125727006_1615664194.51/0/reflectasm-1-11-9-sources-  
jar/com/esotericsoftware/reflectasm/MethodAccess.java  
* /opt/cola/permits/1125727006_1615664194.51/0/reflectasm-1-11-9-sources-  
jar/com/esotericsoftware/reflectasm/PublicConstructorAccess.java
```

1.129 asm 9.2

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```
* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/ConstantDynamic.java  
* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/Label.java  
* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-  
jar/org/objectweb/asm/signature/SignatureVisitor.java  
* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/ClassVisitor.java  
* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/CurrentFrame.java  
* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-  
jar/org/objectweb/asm/signature/SignatureWriter.java  
* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/ClassReader.java  
* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-  
jar/org/objectweb/asm/ClassTooLargeException.java  
* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/AnnotationWriter.java  
* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/FieldVisitor.java  
* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/Attribute.java  
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* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/SymbolTable.java  
* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-  
jar/org/objectweb/asm/RecordComponentWriter.java  
* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/ModuleVisitor.java
```

* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/MethodTooLargeException.java

* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/FieldWriter.java

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* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/TypeReference.java

* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/Edge.java

* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/Symbol.java

* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/MethodVisitor.java

* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/Type.java

* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/TypePath.java

* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/signature/SignatureReader.java

* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/RecordComponentVisitor.java

* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/Handle.java

* /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/ClassWriter.java

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- * /opt/cola/permits/1183834240_1627488405.61/0/asm-9-2-sources-jar/org/objectweb/asm/package.html

1.130 jaxb-api 2.2.11

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- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/JAXBElement.java
- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlSchema.java
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- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlRootElement.java
- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlNs.java
- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlElement.java
- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/XmlAdapter.java
- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlIDREF.java
- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlElements.java
- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/PrintConversionEvent.java
- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ParseConversionEvent.java
- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlTransient.java
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- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlEnum.java
- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlID.java
- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/JAXBIntrospector.java
- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlElementRefs.java
- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlEnumValue.java
- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlType.java
- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/HexBinaryAdapter.java

* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/CollapsedStringAdapter.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapters.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlElementDecl.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlValue.java
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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/PropertyException.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAttribute.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/NormalizedStringAdapter.java

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jar/javax/xml/bind/GetPropertyAction.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlSeeAlso.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/DataBindingException.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/JAXB.java
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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/UnmarshallerHandler.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/AbstractMarshallerImpl.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/DatatypeConverterInterface.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ValidationEvent.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/util/JAXBSource.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Unmarshaller.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/TypeConstraintException.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/ParseConversionEventImpl.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ValidationException.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Element.java
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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/JAXBContext.java
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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/util/ValidationEventCollector.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Unmarshaller.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/ValidationEventLocatorImpl.java

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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/helpers/NotIdentifiableEventImpl.java
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jar/javax/xml/bind/DatatypeConverter.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/MarshalException.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/util/Messages.java
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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Validator.java
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jar/javax/xml/bind/JAXBException.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/helpers/PrintConversionEventImpl.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/helpers/DefaultValidationEventHandler.java
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jar/javax/xml/bind/util/Messages.properties
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
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 * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
 jar/javax/xml/bind/annotation/XmlAccessType.java
 * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
 jar/javax/xml/bind/annotation/XmlAnyAttribute.java
 * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
 jar/javax/xml/bind/annotation/XmlMimeType.java
 * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-

jar/javax/xml/bind/annotation/XmlSchemaTypes.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlMixed.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/W3CDomHandler.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/attachment/AttachmentUnmarshaller.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlAccessOrder.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/DomHandler.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlInlineBinaryData.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/SchemaOutputResolver.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlAnyElement.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Binder.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlAttachmentRef.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/attachment/AttachmentMarshaller.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlSchemaType.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlAccessorType.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlElementWrapper.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlList.java

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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/package.html

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- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/WhiteSpaceProcessor.java
- * /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/DatatypeConverterImpl.java

1.131 kryo 5.4.0

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- * /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-jar/com/esotericsoftware/kryo/util/ObjectMap.java
- * /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-jar/com/esotericsoftware/kryo/serializers/DefaultSerializers.java
- * /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-jar/com/esotericsoftware/kryo/io/OutputChunked.java
- * /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-jar/com/esotericsoftware/kryo/serializers/BlowfishSerializer.java
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- * /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-jar/com/esotericsoftware/kryo/io/KryoBufferUnderflowException.java
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* /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-
jar/com/esotericsoftware/kryo/serializers/FieldSerializer.java
* /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-
jar/com/esotericsoftware/kryo/unsafe/UnsafeUtil.java
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jar/com/esotericsoftware/kryo/serializers/BeanSerializer.java
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jar/com/esotericsoftware/kryo/util/IntArray.java
* /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-

jar/com/esotericsoftware/kryo/io/ByteBufferInput.java
* /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-
jar/com/esotericsoftware/kryo/KryoException.java
* /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-
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jar/com/esotericsoftware/kryo/KryoSerializable.java
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* /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-
jar/com/esotericsoftware/kryo/serializers/DefaultArraySerializers.java
* /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-

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jar/com/esotericsoftware/kryo/unsafe/UnsafeOutput.java
* /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-
jar/com/esotericsoftware/kryo/serializers/CachedFields.java
* /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-
jar/com/esotericsoftware/kryo/serializers/UnsafeField.java
* /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-
jar/com/esotericsoftware/kryo/io/ByteBufferOutputStream.java
* /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-
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* /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-
jar/com/esotericsoftware/kryo/io/KryoObjectInput.java
* /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-
jar/com/esotericsoftware/kryo/Serializer.java
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jar/com/esotericsoftware/kryo/util/Generics.java
```

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```

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* /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-
jar/com/esotericsoftware/kryo/serializers/RecordSerializer.java
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jar/com/esotericsoftware/kryo/util/ObjectIntMap.java
* /opt/cola/permits/1595582325_1678983544.674625/0/kryo-5-4-0-sources-
jar/com/esotericsoftware/kryo/util/CuckooObjectMap.java

1.132 jackson-annotations 2.13.4

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1.133 swagger 1.5.21

1.134 jboss-marshalling 2.0.11.Final

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1.135 minlog 1.3.1

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1.136 jnr-ffi 2.2.11

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Found in path(s):

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/AbstractAsmLibraryInterface.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/ClosureUtil.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NativeClosureFactory.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/ObjectReferenceManager.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/Delegate.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/LongLong.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/X86MethodGenerator.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/BaseMethodGenerator.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NativeClosureManager.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/AsmBuilder.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NativeClosurePointer.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/DefaultObjectReferenceManager.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/AbstractFastNumericMethodGenerator.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/FastIntMethodGenerator.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/MethodGenerator.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/StructLayout.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/AbstractDataConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/ClosureManager.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/IntPtrenter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/FastLongMethodGenerator.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/FastNumericMethodGenerator.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/BufferMethodGenerator.java
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* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/util/AnnotationProxy.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/util/AnnotationProperty.java

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* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Memory.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Type.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Runtime.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/AbstractNumberReference.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/AbstractReference.java

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* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Pointer.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/NativeInvocationHandler.java
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jar/jnr/ffi/provider/jffi/platform/ppc64/freebsd/TypeAliases.java
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jar/jnr/ffi/provider/jffi/platform/ppc64/linux/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/platform/ppc64le/linux/TypeAliases.java
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* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Union.java
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jar/jnr/ffi/provider/jffi/platform/aarch64/linux/TypeAliases.java
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jar/jnr/ffi/provider/FFIPProvider.java
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* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/MemoryUtil.java
```

```
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
```

jar/jnr/ffi/provider/jffi/NumberUtil.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/In.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Library.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/BadType.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/MethodParameterContext.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/ArrayMemoryIO.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/FloatByReference.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/TypeMapper.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/PointerByReference.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/X86_64StubCompiler.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/SymbolNotFoundError.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/util/EnumMapper.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Platform.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/NativeLong.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/LastError.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NativeMemoryManager.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/BoundedMemoryIO.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/ToNativeConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/DataConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/CodegenUtils.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/ShareMemoryIO.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/Invoker.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/X86_32StubCompiler.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/MethodResultContext.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/IgnoreError.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/ByReference.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/ByteByReference.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/ARM_64StubCompiler.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/util/BufferUtil.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/InAccessibleMemoryIO.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/NullTypeMapper.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/FromNativeConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/ParameterFlags.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/LibraryOption.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/ShortByReference.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/ToNativeContext.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/AllocatedDirectMemoryIO.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/IntByReference.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NativeLibrary.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/AddressByReference.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/Synchronized.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/AsmRuntime.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/MemoryManager.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/StdCall.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/AsmLibraryLoader.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/JNINativeInterface.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/FromNativeContext.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/AsmClassLoader.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Address.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/AsmUtil.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/Provider.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/DoubleByReference.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/LongLongByReference.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/LibraryLoader.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/InvocationSession.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-

jar/jnr/ffi/annotations/NulTerminate.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/DirectMemoryIO.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/AbstractBufferMemoryIO.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/annotations/Transient.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/AbstractA64StubCompiler.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/StubCompiler.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/ByteBufferMemoryIO.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/InvokerUtil.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/NativeRuntime.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/mapper/FunctionMapper.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/Clear.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/Out.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/AbstractMemoryIO.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/Direct.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/AbstractRuntime.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/AbstractX86StubCompiler.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/CallingConvention.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/Pinned.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/AbstractArrayMemoryIO.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/DelegatingMemoryIO.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/Meta.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/annotations/SaveError.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/IdentityFunctionMapper.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/NullMemoryIO.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/LoadedLibrary.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/SkinnyMethodAdapter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/JNIInvokeInterface.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-

jar/jnr/ffi/byref/NativeLongByReference.java

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Found in path(s):

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/util/ref/FinalizableReferenceQueue.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/util/ref/FinalizableReference.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/util/ref/FinalizableSoftReference.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/util/ref/FinalizableWeakReference.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/util/ref/FinalizablePhantomReference.java

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```
*/
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```

Found in path(s):

```
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Struct.java
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```

```
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*/
```

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```
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/platform/x86_64/solaris/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/LocalVariableAllocator.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/platform/mips64/linux/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/X86Disassembler.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/platform/sparc/solaris/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/converters/StructByReferenceFromNativeConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/platform/i386/openbsd/TypeAliases.java
```

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NotImplMethodGenerator.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/CachingTypeMapper.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Variable.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/StringBufferParameterConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/BoxedBooleanArrayParameterConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/StructByReferenceToNativeConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/AsmStructByReferenceFromNativeConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/ToNativeOp.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/i386/freebsd/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/EnumConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/EnumSetConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/DefaultSignatureType.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/ByReferenceParameterConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/util/Annotations.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/util/AnnotationNameComparator.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/InvokerTypeMapper.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/id_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/BoxedFloatArrayParameterConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/ToNativeType.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/InvalidProvider.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/BoxedLong32ArrayParameterConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/ppc64/aix/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/rlim_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/PrimitiveArrayParameterStrategy.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/ppc/linux/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/u_int8_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-

jar/jnr/ffi/provider/jffi/BufferParameterStrategy.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/blkcnt_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/caddr_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/ReflectionVariableAccessorGenerator.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/pid_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/arm/linux/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/PointerParameterStrategy.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
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 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
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 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
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 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
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 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/HeapBufferParameterStrategy.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/u_int16_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/in_addr_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/int32_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/InvalidRuntime.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/x86_64/openbsd/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/mapper/SignatureTypeMapperAdapter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/VariableAccessorGenerator.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/converters/StringUtil.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/nlink_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/NativeFunctionMapperContext.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/converters/Pointer64ArrayParameterConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/x86_64/windows/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/mode_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/swblk_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/ppc/darwin/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/ino64_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/SimpleNativeContext.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-

jar/jnr/ffi/provider/jffi/platform/x86_64/midnightbsd/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/ppc/aix/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/ino_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/mapper/AbstractSignatureTypeMapper.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/ParameterStrategy.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/sa_family_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/converters/NativeLongConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
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 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/ppc64/ibmi/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/gid_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/i386/midnightbsd/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/int8_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/ssize_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/socklen_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/converters/BoxedLong64ArrayParameterConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/NativeClosureProxy.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/Util.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/u_int32_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/x86_64/freebsd/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/mapper/ToNativeTypes.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/mapper/DefaultTypeMapper.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/i386/solaris/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/mapper/CompositeFunctionMapper.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/annotations/TypeDefinition.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/converters/CharSequenceParameterConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/off_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/mapper/FromNativeType.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/mapper/CompositeTypeMapper.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/blksize_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/TypeAlias.java

- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NativeLibraryLoader.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NoTrace.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/mips64el/linux/TypeAliases.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/in_port_t.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/LibraryLoader.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/Long32ArrayParameterConverter.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/clock_t.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/NumberByReference.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/ClosureFromNativeConverter.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/mips/linux/TypeAliases.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/NativeLong32ArrayParameterConverter.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/fsblkcnt_t.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/dev_t.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/ClosureTypeMapper.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/i386/linux/TypeAliases.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/x86_64/dragonfly/TypeAliases.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/ReflectionLibraryLoader.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/Pointer32ArrayParameterConverter.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/Util.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/FromNativeTypes.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/aarch64/freebsd/TypeAliases.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/size_t.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/BoxedShortArrayParameterConverter.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/uintptr_t.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/mipsel/linux/TypeAliases.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/TransientNativeMemory.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/fsfilcnt_t.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/intptr_t.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/s390/linux/TypeAliases.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NoX86.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/sparcv9/solaris/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/CharSequenceArrayParameterConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/SignatureType.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/i386/windows/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/x86_64/darwin/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/LocalVariable.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/Encoding.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/AbstractFromNativeType.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/StringResultConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/StructArrayParameterConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/AbstractToNativeType.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/uid_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/NativeLong64ArrayParameterConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/SignatureTypeMapper.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/key_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/int16_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/u_int64_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/s390x/linux/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/StringBuilderParameterConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/time_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NativeFinalizer.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/int64_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NullObjectParameterStrategy.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/BoxedIntegerArrayParameterConverter.java
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* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/ResultType.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/InterfaceScanner.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/StructByReferenceResultConverterFactory.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/SimpleFunctionMapper.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/FromNativeType.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/AnnotationTypeMapper.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/NativeVariable.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/ParameterType.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/SimpleTypeMapper.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/ConverterMetaData.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/SigType.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/Types.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/ToNativeType.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/NativeFunction.java

1.137 java-driver-shaded-guava 25.1-jre-graal-sub-1

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/FilteredMultimap.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/FilteredKeySetMultimap.java
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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/CompactHashSet.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/ForwardingBlockingDeque.java
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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/CompactHashMap.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/TreeTraverser.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ForwardingBlockingDeque.java
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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/FilteredEntryMultimap.java
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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/CompactLinkedHashMap.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/TransformedIterator.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ForwardingImmutableMap.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AbstractService.java
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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/escape/ArrayBasedUnicodeEscaper.java
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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/Cut.java
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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/escape/ArrayBasedCharEscaper.java
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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/primitives/SignedBytes.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/ByteProcessor.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/LineProcessor.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/xml/XmlEscapers.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/SparseImmutableTable.java
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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/net/HostSpecifier.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/SettableFuture.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/StandardSystemProperty.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/ByteSource.java
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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/ServiceManager.java
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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/reflect/TypeCapture.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/reflect/ClassPath.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/reflect/Invokable.java
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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/hash/LongAddable.java
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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/Closer.java
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jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableSortedAsList.java
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 - * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ArrayTable.java
 - * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableSortedMap.java
 - * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ComparisonChain.java
 - * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/RegularImmutableSortedSet.java
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jar/com/datastax/oss/driver/shaded/guava/common/reflect/Reflection.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/Closeables.java

* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AbstractFuture.java

* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/Predicate.java

* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/Defaults.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/FinalizableReferenceQueue.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/FinalizableReference.java
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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/Flushables.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/CountingOutputStream.java

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/*
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```

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```

```
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collect/StandardRowSortedTable.java
```

- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableMap.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/HashBasedTable.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/EmptyImmutableListMultimap.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/Collections2.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/Platform.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableMapEntrySet.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/RegularImmutableMap.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/SingletonImmutableBiMap.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableEntry.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableListMultimap.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableMapKeySet.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/RegularImmutableBiMap.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/Table.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/PeekingIterator.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/Serialization.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableMultimap.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/TreeBasedTable.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableSortedSet.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/thirdparty/publicsuffix/PublicSuffixPatterns.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableBiMap.java
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- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/UnmodifiableIterator.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/Range.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/CollectPreconditions.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableCollection.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/Count.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableSortedMultisetFauxverideShim.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/hash/Murmur3_128HashFunction.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/math/MathPreconditions.java

* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/math/package-info.java

* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/Absent.java

* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/Ticker.java

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*/

/**

* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular

* version.

*/

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jar/com/datastax/oss/driver/shaded/guava/common/math/Quantiles.java
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jar/com/datastax/oss/driver/shaded/guava/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/eventbus/Subscriber.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/base/MoreObjects.java
```

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```
*/
```

```
/**
```

```
* Returns an array containing all of the elements in the specified collection. This method
```

```
* returns the elements in the order they are returned by the collection's iterator. The returned
```

```
* array is "safe" in that no references to it are maintained by the collection. The caller is
```

```
* thus free to modify the returned array.
```

```
*
```

```
* <p>This method assumes that the collection size doesn't change while the method is running.
```

```
*
```

```
* <p>TODO(kevinb): support concurrently modified collections?
```

```
*
```

```
* @param c the collection for which to return an array of elements
```

```
*/
```

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```
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collect/ObjectArrays.java
```

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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AsyncCallable.java
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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/Platform.java
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jar/com/datastax/oss/driver/shaded/guava/common/hash/MacHashFunction.java
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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AggregateFutureState.java
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jar/com/datastax/oss/driver/shaded/guava/common/hash/FarmHashFingerprint64.java
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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/InterruptibleTask.java
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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/io/ReaderInputStream.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/JdkBackedImmutableMultiset.java
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jar/com/datastax/oss/driver/shaded/guava/common/base/CommonMatcher.java
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jar/com/datastax/oss/driver/shaded/guava/common/collect/IndexedImmutableSet.java
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jar/com/datastax/oss/driver/shaded/guava/common/collect/JdkBackedImmutableBiMap.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/RowSortedTable.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ForwardingImmutableCollection.java

* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ForwardingListMultimap.java

* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/MinMaxPriorityQueue.java

* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/SortedMapDifference.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/MoreFiles.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/MultimapBuilder.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/reflect/TypeVisitor.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/hash/HashingInputStream.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/Utf8.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/AbstractTable.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-

```
jar/com/datastax/oss/driver/shaded/guava/common/base/VerifyException.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/Runnables.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/io/CharSequenceReader.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/base/Verify.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collect/FilteredMultimapValues.java
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*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

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- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AtomicDoubleArray.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/hash/Striped64.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/cache/LongAdder.java
- * /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/cache/Striped64.java

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*/

/*

* This following method is a modified version of one found in

* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30>

* which contained the following notice:

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*/
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in { @code ImmutableSortedMap }, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type { @code Comparable } to use { @link
 *   ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

```

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableSortedMapFauxverideShim.java

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jar/com/datastax/oss/driver/shaded/guava/common/collect/CollectSpliterators.java

```

```

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jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableBiMapFauxverideShim.java

```

```

* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-

```

jar/com/datastax/oss/driver/shaded/guava/common/graph/package-info.java

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*/
/*
```

```
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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*/
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jar/com/datastax/oss/driver/shaded/guava/common/primitives/Chars.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/net/PercentEscaper.java
```

* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/internal/Finalizer.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/primitives/Booleans.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/escape/Escaper.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/primitives/Floats.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/Stopwatch.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/primitives/Shorts.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/primitives/Doubles.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/FluentIterable.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AbstractCheckedFuture.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/net/InetAddresses.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/Joiner.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/primitives/Longs.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/MultiReader.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/primitives/Bytes.java
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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/CharMatcher.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/SortedMultisets.java

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* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-

jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/ForwardingCondition.java

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*

* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's

* `java.util.HashMap` class.

*/

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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/Striped.java

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jar/com/datastax/oss/driver/shaded/guava/common/escape/CharEscaper.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/io/AppendableWriter.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/reflect/TypeToken.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/Futures.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1257847291_1643019276.16/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/base/CaseFormat.java

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