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* /opt/cola/permits/1318642669_1651203126.37/0/netty-codec-http2-4-1-76-final-sources-
jar/io/netty/handler/codec/http2/DecoratingHttp2FrameWriter.java
* /opt/cola/permits/1318642669_1651203126.37/0/netty-codec-http2-4-1-76-final-sources-
jar/io/netty/handler/codec/http2/StreamByteDistributor.java
* /opt/cola/permits/1318642669_1651203126.37/0/netty-codec-http2-4-1-76-final-sources-
jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionEncoder.java
* /opt/cola/permits/1318642669_1651203126.37/0/netty-codec-http2-4-1-76-final-sources-
jar/io/netty/handler/codec/http2/StreamBufferingEncoder.java
* /opt/cola/permits/1318642669_1651203126.37/0/netty-codec-http2-4-1-76-final-sources-
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* /opt/cola/permits/1318642669_1651203126.37/0/netty-codec-http2-4-1-76-final-sources-jar/io/netty/handler/codec/http2/HpackStaticTable.java
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1.6 spring-security-crypto 5.6.3

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1.7 paranamer 2.8

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*/opt/cola/permits/1230781645_1637569890.91/0/spring-cloud-aws-messaging-2-2-6-release-sources-jar/org/springframework/cloud/aws/messaging/endpoint/config/NotificationHandlerMethodArgumentResolverConfigurationUtils.java
*/opt/cola/permits/1230781645_1637569890.91/0/spring-cloud-aws-messaging-2-2-6-release-sources-jar/org/springframework/cloud/aws/messaging/listener/SendToHandlerMethodReturnValueHandler.java
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http://www.springframework.org/schema/cloud/aws/messaging/spring-cloud-aws-messaging-1.2.xsd=org/springframework/cloud/aws/messaging/config/xml/spring-cloud-aws-messaging-1.2.xsd
http://www.springframework.org/schema/cloud/aws/messaging/spring-cloud-aws-messaging.xsd=org/springframework/cloud/aws/messaging/config/xml/spring-cloud-aws-messaging-1.2.xsd

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*/opt/cola/permits/1230781645_1637569890.91/0/spring-cloud-aws-messaging-2-2-6-release-sources-jar/META-INF/spring.schemas
1.9 swagger-annotations 1.6.2

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1.10 commons-lang3 3.12.0

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* /opt/cola/permits/1255985059_1642628370.74/0/spring-cloud-context-3-1-0-sources-jar/org/springframework/cloud/context/scopedEntity/StandardScopeCache.java
* /opt/cola/permits/1255985059_1642628370.74/0/spring-cloud-context-3-1-0-sources-jar/org/springframework/cloud/context/scopedEntity/thread/ThreadLocalScopeCache.java
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  jar/org/springframework/cloud/bootstrap/encrypt/TextEncryptorUtils.java

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  jar/org/springframework/cloud/bootstrap/support/OriginTrackedCompositePropertySource.java
* /opt/cola/permits/1255985059_1642628370.74/0/spring-cloud-context-3-1-0-sources-
  jar/org/springframework/cloud/bootstrap/encrypt/EnvironmentDecryptApplicationInitializer.java
* /opt/cola/permits/1255985059_1642628370.74/0/spring-cloud-context-3-1-0-sources-
  jar/org/springframework/cloud/bootstrap/encrypt/DecryptEnvironmentPostProcessor.java
* /opt/cola/permits/1255985059_1642628370.74/0/spring-cloud-context-3-1-0-sources-
  jar/org/springframework/cloud/util/ConditionalOnBootstrapDisabled.java
1.12 dnsjava 2.1.7

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1.17 jackson-jaxrs 2.13.2

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1.19 netty-transport-classes-epoll 4.1.76.Final

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 * Set the `TCP_MD5SIG` option on the socket. See `linux/tcp.h` for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

/**
 * Set the `TCP_QUICKACK` option on the socket.
 * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
 * for more details.
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* /opt/cola/permits/1318642654_1651203129.53/0/netty-transport-classes-epoll-4-1-76-final-sources-
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* /opt/cola/permits/1318642654_1651203129.53/0/netty-transport-classes-epoll-4-1-76-final-sources-
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* /opt/cola/permits/1318642654_1651203129.53/0/netty-transport-classes-epoll-4-1-76-final-sources-
  jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/cola/permits/1318642654_1651203129.53/0/netty-transport-classes-epoll-4-1-76-final-sources-
  jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/cola/permits/1318642654_1651203129.53/0/netty-transport-classes-epoll-4-1-76-final-sources-
  jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/1318642654_1651203129.53/0/netty-transport-classes-epoll-4-1-76-final-sources-
  jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/1318642654_1651203129.53/0/netty-transport-classes-epoll-4-1-76-final-sources-
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 * Set the {code TCP_MD5SIG} option on the socket. See {code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
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* /opt/cola/permits/1318642654_1651203129.53/0/netty-transport-classes-epoll-4-1-76-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java
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* /opt/cola/permits/1318642654_1651203129.53/0/netty-transport-classes-epoll-4-1-76-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
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* /opt/cola/permits/1318642719_1651203137.82/0/netty-handler-proxy-4-1-76-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java
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* /opt/cola/permits/1318642719_1651203137.82/0/netty-handler-proxy-4-1-76-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java

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1.21 tomcat 9.0.62

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1.24 byte-buddy 1.11.22

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1.28 txw2 2.3.6

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Java UUID generator library has been written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Eric Bie contributed extensive unit test suite which has helped ensure high implementation quality

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core
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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache
The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.
1.32 commons-compress 1.19

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# The main CI of Hibernate ORM is https://ci.hibernate.org/job/hibernate-orm-5.6-h2/.
# However, Hibernate ORM builds run on GitHub actions regularly
# to check that it still works and can be used in GitHub forks.
# See https://docs.github.com/en/free-pro-team@latest/actions
# for more information about GitHub actions.

name: Hibernate ORM build

on:
push:
  branches:
  - '5.6'
pull_request:
  branches:
  - '5.6'

# See https://github.com/hibernate/hibernate-orm/pull/4615 for a description of the behavior we're getting.
concurrency:
# Consider that two builds are in the same concurrency group (cannot run concurrently)
# if they use the same workflow and are about the same branch ("ref") or pull request.
group: "workflow = ${{ github.workflow }}, ref = ${{ github.event.ref }}, pr = ${{ github.event.pull_request.id }}"
# Cancel previous builds in the same concurrency group even if they are in process
# for pull requests or pushes to forks (not the upstream repository).
cancel-in-progress: ${{ github.event_name == 'pull_request' || github.repository != 'hibernate/hibernate-orm' }}

jobs:
build:
  name: Java 8
  runs-on: ubuntu-latest
  strategy:
    fail-fast: false
  matrix:
    include:
      - rdbms: h2
      # - rdbms: hsqldb
      - rdbms: derby
# Running with HANA requires at least 8GB memory just for the database, which we don't have on GH Actions runners

- rdbms: hana

steps:
- uses: actions/checkout@v2
  with:
    persist-credentials: false
- name: Reclaim Disk Space
  run: .github/ci-prerequisites.sh
- name: Start database
  env:
    RDBMS: ${{ matrix.rdbms }}
  run: ci/database-start.sh
- name: Set up Java 8
  uses: actions/setup-java@v1
  with:
    java-version: 1.8
- name: Get year/month for cache key
  id: get-date
  run: |
    echo '::set-output name=yearmonth::$(/bin/date -u "+%Y-%m")'"
  shell: bash
- name: Cache Maven local repository
  uses: actions/cache@v2
  id: cache-maven
  with:
    path: |
      ~/.m2/repository
      ~/.gradle/caches/
      ~/.gradle/wrapper/
    # refresh cache every month to avoid unlimited growth
    key: maven-localrepo-${{ steps.get-date.outputs.yearmonth }}
- name: Run build script
  env:
    RDBMS: ${{ matrix.rdbms }}
  run: ./ci/build-github.sh
  shell: bash
- name: Upload test reports (if Gradle failed)
  uses: actions/upload-artifact@v2
  if: failure()
with:

name: test-reports-java8-${{ matrix.rdbms }}
path: |
  ./**/target/reports/tests/
  ./**/target/reports/checkstyle/
- name: Omit produced artifacts from build cacheun: /ci/before-cache.sh

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1.39 native-protocol 1.5.1

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DSE BINARY PROTOCOL v1

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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
+-------------------------------+
| version | flags | stream | opcode |
+-------------------------------+
|                        length |
+-------------------------------+
| ...
|  ... body ...  ...
|   .....
+-------------------------------+
```

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
[long string] An [int] n, followed by n bytes representing an UTF-8 string.
[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`.
[value] A [int] n, followed by n bytes if n >= 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 >= 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][000111 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 >> 31) ^ (n << 1)" for 32 bit values, and "(n >> 63) ^ (n << 1)" for 64 bit values where "^" is the xor operation, "<<" is the left shift operation and ">>" 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
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 an 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 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. 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 boostrapped 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:

\[
<\text{metadata}><\text{rows_count}><\text{rows_content}>
\]

where:

- \(<\text{metadata}\) is composed of:

\[
<\text{flags}><\text{columns_count}><\text{paging_state}><\text{continuous_page_no}><\text{global_table_spec}><\text{col_spec}_1>...<\text{col_spec}_n>
\]

where:

- \(<\text{flags}\) is an \([\text{int}]\). The bits of \(<\text{flags}\) 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 \(<\text{global_table_spec}\). If not set, \(<\text{global_table_spec}\) 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 \(<\text{paging_state}\) will be present. The \(<\text{paging_state}\) is a \([\text{bytes}]\) 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 \(<\text{metadata}\) is only composed of these \(<\text{flags}\)\), the \(<\text{column_count}\) and optionally the \(<\text{paging_state}\) and \(<\text{continuous_page_no}\) (depending on the corresponding flags) but no other information (so no \(<\text{global_table_spec}\) nor \(<\text{col_spec}_i\)>).
  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. \(<\text{continuous_page_no}\) will be present, this is an \([\text{int}]\) 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).

- \(<\text{columns_count}\) is an \([\text{int}]\) representing the number of columns selected by the query that produced this result. It defines the number of \(<\text{col_spec}_i\) elements in and the number of elements for each row in \(<\text{rows_content}\>.

- \(<\text{global_table_spec}\) 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 `<column_count>` such column specifications, each with the following format:
  ```
  (<ksname><tablename>)?<name><type>
  ```
The initial `<ksname>` and `<tablename>` are two `[string]s 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 $2^{31}$.

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 "$<\text{unscaled}>E<-\text{scale}>".

In other words, "$<\text{unscaled}> * 10 ^ (-1 * <\text{scale}>)$".

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 86399999999999

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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Encoding</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0x00</td>
</tr>
<tr>
<td>1</td>
<td>0x01</td>
</tr>
<tr>
<td>127</td>
<td>0x7F</td>
</tr>
<tr>
<td>128</td>
<td>0x0080</td>
</tr>
<tr>
<td>129</td>
<td>0x0081</td>
</tr>
<tr>
<td>-1</td>
<td>0xFF</td>
</tr>
<tr>
<td>-128</td>
<td>0x80</td>
</tr>
<tr>
<td>-129</td>
<td>0xFF7F</td>
</tr>
</tbody>
</table>

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 >= 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
yaml 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 occured,
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 keyspace 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/1318961038_1651217825.2/0/native-protocol-1.5-1-jar/dse_protocol_v1.spec

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
+---------+---------+---------+---------+---------+
| version |  flags |      stream       | opcode  |
+---------+---------+---------+---------+---------+
|                length                 |
+---------+---------+---------+---------+
|                                       |
| .            ...  body ...              . |
| .                                       . |
+----------------------------------------+
```

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

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


[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`.

[value] A [int] n, followed by n bytes if n >= 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 >= 0.

[unsigned vint] An unsigned variable length integer. A vint is encoded with the most significant byte (MSB) first.

The most significant byte will contain 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 
\[ (n >> 31) ^ (n << 1) \] for 32 bit values, and 
\[ (n >> 63) ^ (n << 1) \] for 64 bit values where 
\[ ^ \] is the xor operation, 
\[ << \] is the left shift operation and 
\[ >> \] is the arithemtic 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>][<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 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.

4.2. 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, 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 
'default' 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
- `<type_i>` is an [option] representing the type 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_keysapce

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
- 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 $2^{31}$.

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 863999999999999

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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Encoding</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0x00</td>
</tr>
<tr>
<td>1</td>
<td>0x01</td>
</tr>
<tr>
<td>127</td>
<td>0x7F</td>
</tr>
<tr>
<td>128</td>
<td>0x0080</td>
</tr>
<tr>
<td>129</td>
<td>0x0081</td>
</tr>
<tr>
<td>-1</td>
<td>0xFF</td>
</tr>
<tr>
<td>-128</td>
<td>0x80</td>
</tr>
<tr>
<td>-129</td>
<td>0xFF7F</td>
</tr>
</tbody>
</table>

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 >= 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.
<brickfor> 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.
<brickfor> 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/1318961038_1651217825.2/0/native-protocol-1-5-1-jar/native_protocol_v6.spec
No license file was found, but licenses were detected in source scan.

DSE BINARY PROTOCOL v2

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1. Overview

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

```
+---------+---------+---------+---------+---------+
| version |  flags  |      stream       | opcode  |
+---------+---------+---------+---------+---------+
|                length                 |
+---------+---------+---------+---------+
|                                       |
.            ...  body ...              .
.                                       .
.                                       .
+----------------------------------------
```

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
[long string]  An [int] n, followed by n bytes representing an UTF-8 string.
[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`.
[value]  A [int] n, followed by n bytes if n >= 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 >= 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

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[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 
\((n >> 31) ^ (n << 1)\) for 32 bit values, and
\((n >> 63) ^ (n << 1)\)
for 64 bit values where "^" is the xor operation, "<<" is the left shift operation and ">>" 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 correspondence:
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:

\(<\text{query}>\text{query_parameters}\>

where \(<\text{query}>\) is a [long string] representing the query and \(<\text{query_parameters}>\) must be:

\(<\text{consistency}>\text{flags}>\text{[n]}\text{[n]}\text{[n]}\text{[n]}>[\text{[n]}\text{[n]}\text{[n]}\text{[n]}][<\text{result_page_size}>][<\text{paging_state}>][<\text{serial_consistency}>][<\text{timestamp}>][<\text{keyspace}>][\text{continuous_paging_options}]

where:
- \(<\text{consistency}>\) is the [consistency] level for the operation.
- \(<\text{flags}>\) 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, \(<\text{result_page_size}>\) 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, \(<\text{paging_state}>\) should be present. \(<\text{paging_state}>\) 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
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 boostrapped 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>][<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.
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:

\[\langle id\rangle\langle result\_metadata\_id\rangle\langle metadata\rangle\langle result\_metadata\rangle\]

where:
- \(\langle id\rangle\) is [short bytes] representing the prepared query ID.
- \(\langle result\_metadata\_id\rangle\) is [short bytes] representing the resultset metadata ID.
- \(\langle metadata\rangle\) is composed of:
  - \(\langle flags\rangle\langle columns\_count\rangle\langle pk\_count\rangle\langle pk\_index\_1\rangle\ldots\langle pk\_index\_n\rangle\langle global\_table\_spec\rangle?\langle col\_spec\_1\rangle\ldots\langle col\_spec\_n\rangle\]

where:
- \(\langle flags\rangle\) is an [int]. The bits of \(\langle flags\rangle\) 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 \(\langle global\_table\_spec\rangle\). If not set, \(\langle global\_table\_spec\rangle\) is not present.
- \(\langle columns\_count\rangle\) is an [int] representing the number of bind markers in the prepared statement. It defines the number of \(\langle col\_spec\_1\rangle\) elements.
- \(\langle pk\_count\rangle\) is an [int] representing the number of \(\langle pk\_index\_i\rangle\) 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).
- \(\langle pk\_index\_i\rangle\) is a short that represents the index of the bind marker that corresponds to the partition key column in position i.

For example, a \(\langle pk\_index\rangle\) 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 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.
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 86399999999999

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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Encoding</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0x00</td>
</tr>
<tr>
<td>1</td>
<td>0x01</td>
</tr>
<tr>
<td>127</td>
<td>0x7F</td>
</tr>
</tbody>
</table>
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 >= 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 yaml 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 occured.
- 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 keyspace 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/1318961038_1651217825.2/0/native-protocol-1.5-1-jar/dse_protocol_v2.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:

```
  0   8   16   24   32   40
+---------+---------+---------+---------+---------+
| version |  flags  |      stream       | opcode  |
+---------+---------+---------+---------+---------+
|                length                 |
+---------+---------+---------+---------+
|                                       |
|                                       |
|                                        ...
+----------------------------------------

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
[long string] An [int] n, followed by n bytes representing an UTF-8 string.
[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 constistency 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
- `<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 default 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 boosstrapped 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 column 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 `<rows_count>`.
  Each `<row_i>` is composed of `<value_1>...<value_n>` where `<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 advised 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
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 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 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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Encoding</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0x00</td>
</tr>
<tr>
<td>1</td>
<td>0x01</td>
</tr>
<tr>
<td>127</td>
<td>0x7F</td>
</tr>
<tr>
<td>128</td>
<td>0x0080</td>
</tr>
<tr>
<td>129</td>
<td>0x0081</td>
</tr>
<tr>
<td>-1</td>
<td>0xFF</td>
</tr>
<tr>
<td>-128</td>
<td>0x80</td>
</tr>
<tr>
<td>-129</td>
<td>0xFF7F</td>
</tr>
</tbody>
</table>

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 >= 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 enabled 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 timeouted. 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
* 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/1318961038_1651217825.2/0/native-protocol-1-5-1-jar/native_protocol_v3.spec
No license file was found, but licenses were detected in source scan.

CQL BINARY PROTOCOL v4

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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
+---------------------------+
| version |  flags |      stream       | opcode |
|                length                 |
+---------------------------+
|                                         |
| ... body ... ... |
| ... ... ... ... |
+---------------------------+

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
[long string]  An [int] n, followed by n bytes representing an UTF-8 string.
[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`.
[value]        A [int] n, followed by n bytes if n >= 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 >= 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].
[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).

0x0b: 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.

0x11: 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 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.

### 4.2. 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><column_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
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.

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
- <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
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

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 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 86399999999999

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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Encoding</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0x00</td>
</tr>
<tr>
<td>1</td>
<td>0x01</td>
</tr>
<tr>
<td>127</td>
<td>0x7F</td>
</tr>
<tr>
<td>128</td>
<td>0x0080</td>
</tr>
<tr>
<td>129</td>
<td>0x0081</td>
</tr>
<tr>
<td>-1</td>
<td>0xFF</td>
</tr>
<tr>
<td>-128</td>
<td>0x80</td>
</tr>
<tr>
<td>-129</td>
<td>0xFF7F</td>
</tr>
</tbody>
</table>

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/1318961038_1651217825.2/0/native-protocol-1-5-1-jar/native_protocol_v4.spec
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1318961038_1651217825.2/0/native-protocol-1.5.1.jar/META-INF/maven/com.datastax.oss/native-protocol/pom.xml

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

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 me
ssages of the Apache Cassandra« native protocol, with the associa
ted 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 protoc
ol
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.request.query";version="1.5.1",com.datastax.oss.protocol.request;uses="com.datastax.oss.protocol.request.query";version="1.5.1",com.datastax.oss.protocol.request.query;uses="com.datastax.oss.protocol.request.query.query";version="1.5.1","com.datastax.oss.protocol"
CQL BINARY PROTOCOL v5

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

```
+---------+---------+---------+---------+---------+
| version | flags   |      stream       | opcode  |
+---------+---------+---------+---------+---------+
|                length                 |
+---------+---------+---------+---------+
|                                       |
.            ...  body ...              .
.                                       .
.                                       .
+----------------------------------------
```
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

[long string] An [int] n, followed by n bytes representing an UTF-8 string.
[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’.
[value] A [int] n, followed by n bytes if n >= 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 >= 0.

[unsigned vint] An unsigned variable length integer. A vint is encoded with the most significant byte (MSB) first.
   The most significant byte will contain 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 >> 31) ^ (n << 1)" for 32 bit values, and "(n >> 63) ^ (n << 1)" for 64 bit values where "^" is the xor operation, "<<" is the left shift operation and ">>" 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>][<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 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.

4.2. 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
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 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 $2^{31}$.
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 "$\times \text{unscaled} E^{-\text{scale}}$".
In other words, "$\times \text{unscaled} \times 10^{-1 \times \text{scale}}$".

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 86399999999999

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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Encoding</th>
</tr>
</thead>
<tbody>
<tr>
<td>------</td>
<td>----------</td>
</tr>
</tbody>
</table>
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 >= 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.
<brackfor> 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 occured 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 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 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).

Found in path(s):
* /opt/cola/permits/1318961038_1651217825.2/0/native-protocol-1-5-1-jar/native_protocol_v5.spec

1.40 passay 1.5.0

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1.41 aws-java-sdk-core 1.11.415

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/AWS4Signer.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/Codec.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/SdkDigestInputStream.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/AbortedException.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/regions/LegacyRegionXmlMetadataBuilder.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/regions/InMemoryRegionsProvider.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/transform/SimpleTypeCborUnmarshallers.java
jar/com/amazonaws/ResetException.java
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jar/com/amazonaws/jmx/SdkMBeanRegistrySupport.java
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jar/com/amazonaws/util/AbstractBase32Codec.java
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jar/com/amazonaws/SdkThreadLocals.java
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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1.jar/com/amazonaws/http/client/HttpClientFactory.java
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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/AuthRequestClientOptions.java
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jar/com/amazonaws/jmx/spi/SdkMBeanRegistry.java
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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/ServiceClientHolderInputStream.java
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  jar/com/amazonaws/auth/CanHandleNullCredentials.java
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  jar/http/apache/client/impl/ApacheConnectionManagerFactory.java
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  jar/http/apache/client/impl/ConnectionManagerAwareHttpClient.java
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  jar/http/timers/package-info.java
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  jar/http/utils/ApacheUtils.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
  jar/http/conn/ssl/ShouldClearSslSessionPredicate.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
  jar/http/apache/client/impl/SdkHttpClient.java
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  jar/util/FakeIOException.java
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  jar/http/utils/ApacheUtils.java
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jar/com/amazonaws/http/conn/ssl/SdkTLSSocketFactory.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1.jar/com/amazonaws/internal/http/ErrorCodeParser.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/retry/PredefinedRetryPolicies.java
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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/AwsClientSideMonitoringMetrics.java
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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/Signer.java
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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/transform/SimpleTypeIonUnmarshallers.java
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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1.jar/com/amazonaws/client/builder/ClientHandler.java
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1.42 aws-java-sdk-kms 1.11.415

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  jar/com/amazonaws/services/kms/model/ListKeyPoliciesResult.java
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* /opt/cola/permits/1136114712_1613679830.62/0/aws-java-sdk-kms-1-11-415-sources-1.jar/com/amazonaws/services/kms/model/ScheduleKeyDeletionResult.java
* /opt/cola/permits/1136114712_1613679830.62/0/aws-java-sdk-kms-1-11-415-sources-1.jar/com/amazonaws/services/kms/model/transform/CreateGrantRequestMarshaller.java
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* /opt/cola/permits/1136114712_1613679830.62/0/aws-java-sdk-kms-1-11-415-sources-1.jar/com/amazonaws/services/kms/services/kms/model/ListAliasesRequest.java
* /opt/cola/permits/1136114712_1613679830.62/0/aws-java-sdk-kms-1-11-415-sources-1.jar/com/amazonaws/services/kms/model/InvalidGrantIdException.java
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jar/com/amazonaws/auth/policy/actions/KMSActions.java

1.43 dom4j 2.1.3

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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/jar/org/dom4j/util/NodeComparator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/jar/org/dom4j/ProcessingInstruction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/jar/org/dom4j/swing/DefaultDocument.java
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jar/org/dom4j/rule/RuleManager.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/jar/org/dom4j/xpath/DefaultNamespaceContext.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/jar/org/dom4j/datatype/DefaultText.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/jar/org/dom4j/io/DocumentSource.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/jar/org/dom4j/io/DispatchHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/jar/org/dom4j/io/SAXModifyContentHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/jar/org/dom4j/tree/DefaultText.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/jar/org/dom4j/dom/DOMElement.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/jar/org/dom4j/io/SAXModifyContentHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/jar/org/dom4j/tree/DefaultText.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXReader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXHelper.java
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* /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/core/publisher/MonoOperator.java
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- /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/core/publisher/FluxFilterFuseable.java
- /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/core/publisher/MonoPeekTerminal.java
- /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/core/publisher/FluxExtensions.kt
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- /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/core/publisher/MonoMetrics.java
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- /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/core/publisher/FluxSwitchOnFirst.java
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- /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/util/concurrent/MpscLinkedQueue.java
- /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/core/scheduler/NonBlocking.java
- /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/core/publisher/FluxMetrics.java
- /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/core/publisher/FluxMetrics.java
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reactor.core.scheduler.ReactorBlockHoundIntegration

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* /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/core/publisher/ContextTrackingFunctionWrapper.java
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* /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/core/publisher/FluxRetryWhen.java
* /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/core/publisher/MonoSingleCallable.java
* /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/util/retry/Retry.java
* /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/util/retry/RetrySpec.java
* /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/core/publisher/MonoRetryWhen.java
* /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/util/retry/ImmutableRetrySignal.java

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* /opt/cola/permits/1235230386_1638356692.04/0/reactor-core-3-3-17-release-sources-jar/reactor/util/context/CoreContext.java
1.48 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/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
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/Unwrapping.java
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* /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-
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

1.49 jackson 2.13.2
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1.50 kotlin 1.6.21

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

* cvt - IEEE floating point formatting routines.
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import groovy.xml.XmlParser
import org.gradle.api.DefaultTask
import org.gradle.api.file.RegularFileProperty
import org.gradle.api.provider.Property
import org.gradle.api.tasks.Input
import org.gradle.api.tasks.InputFile
import org.gradle.api.tasks.OutputFile
import org.gradle.api.tasks.TaskAction
import java.util.*
abstract class WriteCopyrightToFile : DefaultTask() {
@InputFile
val path = project.file("${project.rootDir}/.idea/copyright/apache.xml")
@get:OutputFile
abstract val outputFile: RegularFileProperty
@get:Input
val commented: Property<Boolean> = project.objects.property(Boolean::class.java).convention(true)
@TaskAction
fun write() {
val file = outputFile.asFile.get()
file.writeText(if (commented.get()) readCopyrightCommented() else readCopyright())
}
private fun readCopyright(): String {
assert(path.exists()) {
"File $path with copyright not found"
}
val xmlParser = XmlParser()
val node = xmlParser.parse(path)
assert(node.attribute("name") == "CopyrightManager") {
"Format changed occasionally?"
}
val copyrightBlock = node.children().filterIsInstance<Node>().single()
val noticeNode = copyrightBlock.children().filterIsInstance<Node>().single { it.attribute("name") == "notice" }
return noticeNode.attribute("value").toString().replace("&#36;today.year",
GregorianCalendar()[Calendar.YEAR].toString())
}
private fun readCopyrightCommented(): String {
return "/*\n" + readCopyright().prependIndent(" * ") + "\n */"

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zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core
The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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 Assorted

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* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-jar/org/springframework/core/io/buffer/DefaultDataBufferFactory.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-jar/org/springframework/core/io/FileCopyUtil2s.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-jar/org/springframework/core/io/UrlResource.java
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* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources.jar/springframework/core/env/PropertySource.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources.jar/springframework/util/LinkedMultiValueMap.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources.jar/springframework/util/CollectionUtils.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources.jar/springframework/core/convert/support/StringToUUIDConverter.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources.jar/springframework/core/codec/ResourceDecoder.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources.jar/springframework/core/io/support/PropertiesLoaderSupport.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources.jar/springframework/core/io/support/PropertySourceFactory.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources.jar/springframework/core/codec/StringDecoder.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources.jar/springframework/core/serializer/Deserializer.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources.jar/springframework/core/env/SimpleCommandLineArgsParser.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources.jar/springframework/core/env/MapPropertySource.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources.jar/springframework/core/env/ProfilesParser.java

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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-jar/org/springframework/core/serializer/support/DeserializingConverter.java
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* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-jar/org/springframework/core/annotation/AnnotationConfigurationException.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-jar/org/springframework/util/AlternativeJdkIdGenerator.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-jar/org/springframework/core/convert/support/SerializationDelegate.java
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* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-jar/org/springframework/core/convert/ConversionFailedException.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-jar/org/springframework/core/style/DefaultToStringStyler.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-jar/org/springframework/core/io/support/VfsPatternUtils.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-jar/org/springframework/core/io/FileSystemResourceLoader.java
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* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-jar/org/springframework/core/io/ContextResource.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-jar/org/springframework/core/style/ValueStyler.java

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  jar/org/springframework/core/CoroutinesUtils.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
  jar/springframework/core/io/buffer/DataBufferUtils.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
  jar/springframework/core/annotation/AnnotationTypeMapping.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
  jar/springframework/core/task/TaskTimeoutException.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
  jar/springframework/core/annotation/AttributeMethods.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
  jar/springframework/core/task/support/TaskExecutorAdapter.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
  jar/springframework/impl/SocketUtils.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
  jar/springframework/impl/SerializationUtils.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
  jar/springframework/impl/TaskRejectedException.java
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  jar/springframework/core/ResolvableType.java
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  jar/springframework/core/task/AsyncTaskExecutor.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
  jar/springframework/impl/ClassUtils.java
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* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
  jar/springframework/impl/TypeUtils.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
  jar/springframework/core/task/AsyncTaskExecutor.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
  jar/springframework/impl/StringUtils.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
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* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
jar/org/springframework/core/annotation/AnnotationTypeMappings.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
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* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
ar/jar/org/springframework/core/SimpleAliasRegistry.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
ar/jar/org/springframework/core/NestedIOException.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
ar/jar/org/springframework/core/convert/Property.java
* /opt/cola/permits/1312150592_1650477282.26/0/spring-core-5-3-19-sources-
ar/jar/org/springframework/core/annotation/SynthesizedMergedAnnotationInvocationHandler.java

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ar/jar/org/springframework/core/env/PropertySources.java
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ar/jar/org/springframework/core/env/PropertySourcesPropertyResolver.java
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ar/jar/org/springframework/core/NamedInheritableThreadLocal.java
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ar/jar/org/springframework/util/xml/StaxEventHandler.java
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ar/jar/org/springframework/util/concurrent/ListenableFutureCallback.java
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  jar/io/netty/handler/traffic/package-info.java
* /opt/cola/permits/1316669234_1651029611.51/0/netty-handler-4-1-76-final-sources-
  jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/cola/permits/1316669234_1651029611.51/0/netty-handler-4-1-76-final-sources-
  jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/cola/permits/1316669234_1651029611.51/0/netty-handler-4-1-76-final-sources-
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  jar/io/netty/handler/stream/IdleStateEvent.java
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  jar/io/netty/handler/stream/ChunkedStream.java
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* /opt/cola/permits/131669234_1651029611.51/0/netty-handler-4-1-76-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/131669234_1651029611.51/0/netty-handler-4-1-76-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/131669234_1651029611.51/0/netty-handler-4-1-76-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
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   jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
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   jar/io/netty/handler/ssl/PseudoRandomFunction.java
 * /opt/cola/permits/131669234_1651029611.51/0/netty-handler-4-1-76-final-sources-
   jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
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   jar/io/netty/handler/ssl/SslMasterKeyHandler.java
 * /opt/cola/permits/131669234_1651029611.51/0/netty-handler-4-1-76-final-sources-
   jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
 * /opt/cola/permits/131669234_1651029611.51/0/netty-handler-4-1-76-final-sources-
   jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
 * /opt/cola/permits/131669234_1651029611.51/0/netty-handler-4-1-76-final-sources-
   jar/io/netty/handler/address/DynamicAddressConnectHandler.java
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* /opt/cola/permits/1316669234_1651029611.51/0/netty-handler-4-1-76-final-sources-
jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/cola/permits/1316669234_1651029611.51/0/netty-handler-4-1-76-final-sources-
jar/io/netty/handler/ssl/PemEncoded.java

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jar/io/netty/handler/ssl/OpenSslCertificateCompressionConfig.java

1.67 jackson-module-parameter-names 2.13.2
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1.68 j2objc-annotations 1.3
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* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/ReflectionSupport.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/RetentionLocalRef.java
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* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/ObjectiveCName.java

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1.69 msgpack-core 0.9.0

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* /opt/cola/permits/1255985171_1642628364.64/0/msgpack-core-0-9-0-sources-jar/org/msgpack/core/buffer/ArrayBufferInput.java
* /opt/cola/permits/1255985171_1642628364.64/0/msgpack-core-0-9-0-sources-jar/org/msgpack/core/buffer/MessageBuffer.java
* /opt/cola/permits/1255985171_1642628364.64/0/msgpack-core-0-9-0-sources-jar/org/msgpack/core/buffer/MessagePack.java
* /opt/cola/permits/1255985171_1642628364.64/0/msgpack-core-0-9-0-sources-jar/org/msgpack/core/buffer/MessageUnpacker.java
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* /opt/cola/permits/1255985171_1642628364.64/msgpack-core-0-9-0-sources-jar/msgpack/value/ValueFactory.java
* /opt/cola/permits/1255985171_1642628364.64/msgpack-core-0-9-0-sources-jar/msgpack/value/ImmutableNilValue.java
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* /opt/cola/permits/1255985171_1642628364.64/msgpack-core-0-9-0-sources-jar/msgpack/value/impl/ImmutableDoubleValueImpl.java
* /opt/cola/permits/1255985171_1642628364.64/msgpack-core-0-9-0-sources-jar/msgpack/value/FloatValue.java
* /opt/cola/permits/1255985171_1642628364.64/msgpack-core-0-9-0-sources-jar/msgpack/core/MessageNeverUsedFormatException.java
* /opt/cola/permits/1255985171_1642628364.64/msgpack-core-0-9-0-sources-jar/msgpack/core/buffer/MessageBufferBE.java
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* /opt/cola/permits/1255985171_1642628364.64/jar/org/msgpack/value/ImmutableStringValue.java
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1.71 spring-cloud-aws-core 2.2.6.RELEASE

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1.72 jersey-common 2.35

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1.74 accessors-smart 2.4.8
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   Manifest-Version: 1.0
   Bnd-LastModified: 1644737816481
   Build-Jdk: 11.0.14
   Built-By: uriel
   Bundle-Description: Java reflect give poor performance on getter setter an constructor calls, accessors-smart use ASM to speed up those cal ls.
   Bundle-DocURL: https://urielch.github.io/
   Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
   Bundle-ManifestVersion: 2
   Bundle-Name: accessors-smart
   Bundle-SymbolicName: net.minidev.accessors-smart
   Bundle-Vendor: Chemouni Uriel
   Bundle-Version: 2.4.8
   Created-By: Apache Maven Bundle Plugin
   Export-Package: net.minidev.asm;uses:="org.objectweb.asm";version="2.4 .8",net.minidev.asm.ex;version="2.4.8"
   Import-Package: org.objectweb.asm;version="[8.0,10)".net.minidev.asm.ex
   Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
   Tool: Bnd-5.1.1.202006162103

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  jar/com/beust/jcommander/IUsageFormatter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
  jar/com/beust/jcommander/UnixStyleUsageFormatter.java
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jar/com/beust/jcommander/IStringConverterFactory.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/converters/URLConverter.java
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jar/com/beust/jcommander/converters/InetAddressConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/converters/URIConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
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* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
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* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
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jar/com/beust/jcommander/converters/InetAddressConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
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* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/converters/MapsConverter.java
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jar/com/beust/jcommander/converters/URIConverter.java
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1.79 asm-tree 9.1

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1.80 commons-fileupload 1.3.1

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1.82 json-smart 2.4.8

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Manifest-Version: 1.0
Bnd-LastModified: 1644737862078
Build-Jdk: 11.0.14
Built-By: uriel
Bundle-Description: JSON (JavaScript Object Notation) is a lightweight
data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language, Standard ECMA-262 3rd Edition - December 1999. JSON is a text format that is completely language independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Perl, Python, and many others. These properties make JSON an ideal data-interchange language.
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Bundle-ManifestVersion: 2
Bundle-Name: json-smart
Bundle-SymbolicName: net.minidev.json-smart
Bundle-Vendor: Chemouni Uriel
Bundle-Version: 2.4.8
Created-By: Apache Maven Bundle Plugin
Export-Package: net.minidev.json;uses:="net.minidev.asm,net.minidev.json.parser,net.minidev.json.reader,net.minidev.json.writer";version="2.4.8",net.minidev.json.annotate;version="2.4.8",net.minidev.json.parser;uses:="net.minidev.json.writer";version="2.4.8",net.minidev.json.reader;uses:="net.minidev.json";version="2.4.8",net.minidev.json.writer
Import-Package: net.minidev.asm;version="[2.4,3)" net.minidev.json,net.minidev.json.annotate,net.minidev.json.parser,net.minidev.json.reader
Require-Capability: osgi.ee;filter:="(&amp;osgi.ee=JavaSE)(version=1.8)"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /opt/cola/permits/1281455925_1646319080.25/0/json-smart-2-4-8-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1281455925_1646319080.25/0/json-smart-2-4-8-jar/META-INF/maven/net.minidev/json-smart/pom.xml
1.83 zstd-jni 1.4.5-6
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Zstd-jni: JNI bindings to Zstd Library

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Built-By: chris
Bnd-LastModified: 1649788366149
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version="[1,2)";resolution=optional,org.eclipse.jetty.alpn;version="
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JUnit

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 <code>subnet</code> | 
 * | <code>subnet-cidr-block-association</code> | <code>volume</code> | <code>vpc</code> | 
 * <code>vpc-cidr-block-association</code> | <code>vpc-endpoint</code> | <code>vpc-peering-connection</code> | 
 * <code>vpn-connection</code> | <code>vpn-gateway</code>.
 * </p>
 * <p>
 * These settings apply to the IAM user who makes the request; they do not apply to the entire AWS account. By
 * default, an IAM user defaults to the same settings as the root user, unless they explicitly override the settings
* by running the `<a>ModifyIdFormat</a>` command. Resources created with longer IDs are visible to all IAM users,
* regardless of these settings and provided that they have permission to use the relevant `<code>Describe</code>` command for the resource type.
</p>
* @@param describeIdFormatRequest
* Contains the parameters for DescribeIdFormat.
* @return A Java Future containing the result of the DescribeIdFormat operation returned by the service.
* @sample AmazonEC2Async.DescribeIdFormat
* @see <a href="http://docs.aws.amazon.com/goto/WebAPI/ec2-2016-11-15/DescribeIdFormat" target="_top">AWS API Documentation</a>
*/

/**
* Modifies the ID format for the specified resource on a per-region basis. You can specify that resources should receive longer IDs (17-character IDs) when they are created.

* @@param describeIdFormatRequest
* Contains the parameters for DescribeIdFormat.
* @return A Java Future containing the result of the DescribeIdFormat operation returned by the service.
* @sample AmazonEC2Async.DescribeIdFormat
* @see <a href="http://docs.aws.amazon.com/goto/WebAPI/ec2-2016-11-15/DescribeIdFormat" target="_top">AWS API Documentation</a>
*/

/**
* This request can only be used to modify longer ID settings for resource types that are within the opt-in period.
* Resources currently in their opt-in period include: `<code>bundle</code>` | `<code>conversion-task</code>` |
* `<code>customer-gateway</code>` | `<code>dhcp-options</code>` | `<code>elastic-ip-assignment</code>` |
* `<code>export-task</code>` | `<code>flow-log</code>` | `<code>image</code>` |
* `<code>import-task</code>` | `<code>internet-gateway</code>` | `<code>network-acl</code>` |
* `<code>network-acl-association</code>` | `<code>network-interface</code>` | `<code>network-interface-attachment</code>` |
* `<code>prefix-list</code>` | `<code>route-table</code>` | `<code>route-table-association</code>` |
* `<code>security-group</code>` | `<code>subnet</code>` | `<code>subnet-cidr-block-association</code>` |
* `<code>vpc</code>` |
* `<code>vpc-cidr-block-association</code>` | `<code>vpc-endpoint</code>` | `<code>vpc-peering-connection</code>` |
* `<code>vpn-connection</code>` | `<code>vpn-gateway</code>`.

* @@param describeIdFormatRequest
* Contains the parameters for DescribeIdFormat.
* @return A Java Future containing the result of the DescribeIdFormat operation returned by the service.
* @sample AmazonEC2Async.DescribeIdFormat
* @see <a href="http://docs.aws.amazon.com/goto/WebAPI/ec2-2016-11-15/DescribeIdFormat" target="_top">AWS API Documentation</a>
*/

/**
* This setting applies to the IAM user who makes the request; it does not apply to the entire AWS account. By default, an IAM user defaults to the same settings as the root user. If you're using this action as the root user, then these settings apply to the entire account, unless an IAM user explicitly overrides these settings for themselves. For more information, see `<a href="http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/resource-ids.html">Resource IDs</a>` in the Amazon Elastic Compute Cloud User Guide.`
@param modifyIdFormatRequest
Contains the parameters of ModifyIdFormat.

@return A Java Future containing the result of the ModifyIdFormat operation returned by the service.

@sample AmazonEC2Async.ModifyIdFormat

@see <a href="http://docs.aws.amazon.com/goto/WebAPI/ec2-2016-11-15/ModifyIdFormat" target="_top">AWS API Documentation</a>

Documentation</a>

*/

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* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-jar/com/amazonaws/services/ec2/waiters/KeyPairExists.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-jar/com/amazonaws/services/ec2/model/CreateVpcEndpointServiceConfigurationRequest.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
jar/com/amazonaws/services/ec2/model/SecurityGroupIdentifier.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
jar/com/amazonaws/services/ec2/model/transform/PeeringConnectionOptionsStaxUnmarshaller.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
jar/com/amazonaws/services/ec2/model/ClassicLinkInstance.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
jar/com/amazonaws/services/ec2/model/DescribeSubnetsRequest.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
jar/com/amazonaws/services/ec2/model/transform/RestoreAddressToClassicRequestMarshaller.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
jar/com/amazonaws/services/ec2/model/transform/ClassicLinkDnsSupportStaxUnmarshaller.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
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* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
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* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
jar/com/amazonaws/services/ec2/waiters/NetworkInterfaceAvailable.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
jar/com/amazonaws/services/ec2/model/transform/AssociateSubnetCidrBlockResultStaxUnmarshaller.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
jar/com/amazonaws/services/ec2/model/NetworkInterfaceAssociation.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
jar/com/amazonaws/services/ec2/model/transform/DescribeEgressOnlyInternetGatewaysResultStaxUnmarshaller.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
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* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
jar/com/amazonaws/services/ec2/model/RecurringCharge.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
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* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
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jar/com/amazonaws/services/ec2/model/transform/CancelReservedInstancesListingResultStaxUnmarshaller.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
jar/com/amazonaws/services/ec2/model/transform/DisableVpcClassicLinkDnsSupportRequestMarshaller.java

/opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1.jar/com/amazonaws/services/ec2/model/CancelSpotFleetRequestsErrorItem.java

/opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1.jar/com/amazonaws/services/ec2/model/LaunchTemplateIamInstanceProfileSpecification.java

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/ opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1.jar/com/amazonaws/services/ec2/model/ConversionTask.java


/ opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1.jar/com/amazonaws/services/ec2/model/transform/DescribeRouteTablesRequestMarshaller.java


/ opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1.jar/com/amazonaws/services/ec2/model/transform/ReservedInstancesIdStaxUnmarshaller.java


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* /opt/cola/permissions/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-jar/com/amazonaws/services/ec2/model/ReleaseHostsRequest.java
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* /opt/cola/permissions/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-jar/com/amazonaws/services/ec2/model/InstanceState.java
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jar/com/amazonaws/services/ec2/model/RejectVpcPeeringConnectionResult.java

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 */
/**
   * <p>
   * Describes the ID format settings for your resources on a per-region basis, for example, to view which resource
   * types are enabled for longer IDs. This request only returns information about resource types whose ID formats
   * can
   * be modified; it does not return information about other resource types.
   * </p>
   * <p>
   * The following resource types support longer IDs: <code>bundle</code> | <code>conversion-task</code> | 
   * <code>customer-gateway</code> | <code>dhcp-options</code> | <code>elastic-ip-allocation</code> | 
   * <code>elastic-ip-association</code> | <code>export-task</code> | <code>flow-log</code> | 
   * <code>import-task</code> | <code>instance</code> | <code>internet-gateway</code> | <code>network-acl</code> | 
   * <code>network-acl-association</code> | <code>network-interface</code> | <code>network-interface-attachment</code> |
   * | <code>prefix-list</code> | <code>reservation</code> | <code>route-table</code> | 
   * <code>route-table-association</code> | <code>security-group</code> | <code>snapshot</code> | 
   * <code>subnet</code> | 
   * | <code>subnet-cidr-block-association</code> | <code>volume</code> | <code>vpc</code> | 
   * <code>vpc-cidr-block-association</code> | <code>vpc-endpoint</code> | <code>vpc-peering-connection</code> | 
   * | <code>vpn-connection</code> | <code>vpn-gateway</code>.
   * </p>
   * <p>
   * These settings apply to the IAM user who makes the request; they do not apply to the entire AWS account. By
   * default, an IAM user defaults to the same settings as the root user, unless they explicitly override the settings
   * by running the <a>ModifyIdFormat</a> command. Resources created with longer IDs are visible to all IAM
   * users,
   * regardless of these settings and provided that they have permission to use the relevant <code>Describe</code>
* command for the resource type.
* </p>
*
* @param describeIdFormatRequest
* Contains the parameters for DescribeIdFormat.
* @return Result of the DescribeIdFormat operation returned by the service.
* @sample AmazonEC2.DescribeIdFormat
* @see <a href="http://docs.aws.amazon.com/goto/WebAPI/ec2-2016-11-15/DescribeIdFormat" target="_top">AWS API Documentation</a>
*
/**
* Modifies the ID format for the specified resource on a per-region basis. You can specify that resources should receive longer IDs (17-character IDs) when they are created.
* </p>
* <p>
* </p>
* </p>
* This setting applies to the IAM user who makes the request; it does not apply to the entire AWS account. By default, an IAM user defaults to the same settings as the root user. If you’re using this action as the root user, then these settings apply to the entire account, unless an IAM user explicitly overrides these settings for themselves. For more information, see <a href="http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/resource-ids.html">Resource IDs</a> in the Amazon Elastic Compute Cloud User Guide.
* </p>
* </p>
* Resources created with longer IDs are visible to all IAM roles and users, regardless of these settings and provided that they have permission to use the relevant <code>Describe</code> command for the resource type.
* </p>
* *
* @param modifyIdFormatRequest
* Contains the parameters of ModifyIdFormat.
* @return Result of the ModifyIdFormat operation returned by the service.
* @sample AmazonEC2.ModifyIdFormat
* @see <a href="http://docs.aws.amazon.com/goto/WebAPI/ec2-2016-11-15/ModifyIdFormat" target="_top">AWS API Documentation</a>
* Documentation</a>
*/

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* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-jar/com/amazonaws/services/ec2/AmazonEC2.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-jar/com/amazonaws/services/ec2/AmazonEC2Client.java

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* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-jar/com/amazonaws/services/ec2/model/transform/EC2RequestHandler.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-jar/com/amazonaws/services/ec2/model/DryRunResult.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-jar/com/amazonaws/services/ec2/model/DryRunSupportedRequest.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-jar/com/amazonaws/services/ec2/model/transform/GeneratePreSignUrlRequestHandler.java
* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-jar/com/amazonaws/services/ec2/model/transform/S3UploadPolicy.java

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*/
/**
 * <p>
 * One or more filters.
 * </p>
 * <ul>
 * <li>
 * <p>
 * <code>create-time</code> - The time the launch template version was created.
 * </p>
 * </li>
 * <li>
 * <p>
 * <code>ebs-optimized</code> - A boolean that indicates whether the instance is optimized for Amazon EBS I/O.
 * </p>
 * </li>
 * <li>
 * <p>
 * <code>iam-instance-profile</code> - The ARN of the IAM instance profile.
 * </p>
 * </li>
 * <li>
 * <p>
 * <code>image-id</code> - The ID of the AMI.
 * </p>
 * </li>
 * <li>
 * <p>
 * <code>instance-type</code> - The instance type.
 * </p>
 * </li>
 * <li>
 * <p>
 * <code>is-default-version</code> - A boolean that indicates whether the launch template version is the default
 * version.
 * </p>
 * </li>
 * </ul>
* </p>
* </li>
* </li>
* </p>
* code> kernel-id </code> - The kernel ID.
* </p>
* </li>
* </li>
* </p>
* code> ram-disk-id </code> - The RAM disk ID.
* </p>
* </li>
* </ul>
*/

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* /opt/cola/permits/1141119424_1614932506.53/0/aws-java-sdk-ec2-1-11-415-sources-1-
jar/com/amazonaws/services/ec2/model/DescribeLaunchTemplateVersionsRequest.java
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package org.HdrHistogram;

final class Version {
public static final String version="$VERSION$";
public static final String build_time="$BUILD_TIME$";
}

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1.101 httpcomponents-mime 4.5.13

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1.105 kafka-schema-registry-client 5.5.5

1.105.1 Available under license:

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1.106 java-driver-core 4.14.0
1.106.1 Available under license:
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1.107 jackson-annotations 2.13.2
1.107.1 Available under license:

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1.108 jackson-datatype-guava 2.13.2

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1.110 javax-ws-rs-api 2.1.1

1.111 common-config 5.5.5
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1.112 javax-inject 1
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1.114 kafka-schema-serializer 5.5.5

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1.115 commons-text 1.9

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1.116 jctools-core 3.1.0

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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
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jar/org/jctools/queues/AtomicReferenceArrayQueue.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/BaseSpscLinkedArrayQueue.java

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<developer>
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<hamcrest.version>1.3</hamcrest.version>
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</properties>
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1.117 rxjava 1.3.8

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 */
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* /opt/cola/permits/1199767188_1630583074.70/rxjava-1-3-8-sources-4.jar/rx/internal/util/atomic/BaseLinkedAtomicQueue.java
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* /opt/cola/permits/1199767188_1630583074.70/rxjava-1-3-8-sources-4.jar/rx/internal/schedulers/SchedulerLifecycle.java
* /opt/cola/permits/1199767188_1630583074.70/rxjava-1-3-8-sources-4.jar/rx/internal/operators/OnSubscribeReduce.java
* /opt/cola/permits/1199767188_1630583074.70/rxjava-1-3-8-sources-4.jar/rx/internal/util/SuppressAnimalSniffer.java
* /opt/cola/permits/1199767188_1630583074.70/rxjava-1-3-8-sources-4.jar/rx/internal/operators/OnSubscribeTakeLastOne.java
* /opt/cola/permits/1199767188_1630583074.70/rxjava-1-3-8-sources-4.jar/rx/internal/operators/DeferredScalarSubscriber.java
* /opt/cola/permits/1199767188_1630583074.70/rxjava-1-3-8-sources-4.jar/rx/internal/operators/OnSubscribeFromCallable.java
* /opt/cola/permits/1199767188_1630583074.70/rxjava-1-3-8-sources-4.jar/rx/internal/operators/DeferredScalarSubscriberSafe.java
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 * Original location: https://github.com/JCTools/JCTools/blob/master/jctools-
 * core/src/main/java/org/jctools/queues/MpmcArrayQueue.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
  jar/rx/internal/util/atomic/SpscUnboundedAtomicArrayQueue.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableOnSubscribeConcat.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleOperatorCast.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/ConnectableObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableOnSubscribeMergeArray.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func7.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaPlugins.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subscriptions/BooleanSubscription.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/MissingBackpressureException.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorSkipWhile.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorAsObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorToObservableSortedList.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorElementAt.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/BufferUntilSubscriber.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorObserveOn.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/SubscriptionList.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ScalarSynchronousObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorDoOnSubscribe.java
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  jar/rx/internal/producers/QueuedValueProducer.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
  jar/rx/internal/producers/ProducerObserverArbiter.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
  jar/rx/internal/producers/QueuedProducer.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
  jar/rx/internal/operators/BackpressureUtils.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
  jar/rx/internal/producers/ProducerArbiter.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
  jar/rx/internal/producers/SingleProducer.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
  jar/rx/internal/producers/SingleDelayedProducer.java

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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/singles/BlockingSingle.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/AsyncOnSubscribe.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/BlockingUtils.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/SingleSubscriber.java
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UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project:
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JCTools has now published artifacts (https://github.com/JCTools/JCTools/issues/17) so RxJava could add JCTools
as a “shadow” dependency (https://github.com/ReactiveX/RxJava/issues/1735).
RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/SingleEmitter.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleTakeUntilObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/SafeCompletableSubscriber.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeThrow.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/BackpressureOverflow.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/plugins/RxJavaCompletableExecutionHook.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/internal/operators/SingleDoOnUnsubscribe.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/internal/operator/Subscription/Unsubscribed.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeLift.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleLiftObservableOperator.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeLift.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleLiftObservableOperator.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/backpressure/BackpressureOverflow.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Plugins/RxJavaComplettableExecutionHook.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleDoOnUnsubscribe.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operator/Subscription/Unsubscribed.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeLift.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleLiftObservableOperator.java
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/**
 * This plugin class provides 2 ways to customize {@link Scheduler} functionality
 * 1. You may redefine entire schedulers, if you so choose. To do so, override
 *    the 3 methods that return Scheduler (io(), computation(), newThread()).
 * 2. You may wrap/decorate an {@link Action0}, before it is handed off to a Scheduler. The system-
 *    supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,
 *    Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
 *    modify Scheduler functionality without redefining Schedulers wholesale.
 *    Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
 * <p>
 * See {@link RxJavaPlugins} or the RxJava GitHub Wiki for information on configuring plugins:
 */

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1.120 jcip-annotation 1.0 1

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*/
*/
1.121 aws-java-sdk-s3 1.11.415

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* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1- jar/com/amazonaws/services/s3/internal/crypto/SecuredCEK.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1- jar/com/amazonaws/services/s3/internal/crypto/KMSSecuredCEK.java

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*/
/**
 * Gets the optional <code>versionIdMarker</code> parameter indicating where in the
 * sorted list of all versions in the specified bucket to begin returning
 * results. Results are always ordered first lexicographically (i.e.
 * alphabetically) and then from most recent version to least recent
 * version.
 * <p>
 * A key marker must be specified when specifying a <code>versionIdMarker</code>.
 * Results begin immediately after the version with the specified key and
 * version ID.
 * </p>
 *
 * @return The optional <code>versionIdMarker</code> parameter indicating where in the
 * sorted list of all versions in the specified bucket to begin
 * returning results.
 *
 * @see ListVersionsRequest#setVersionIdMarker(String)
 * @see ListVersionsRequest#withVersionIdMarker(String)
 */

Found in path(s):
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
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  jar/com/amazonaws/services/s3/internal/auth/S3SignerProvider.java
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* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/WebsiteConfiguration.java

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* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/transform/ProgressStaxUnmarshaller.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/transform/S3KeyFilterStaxUnmarshaller.java
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* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/internal/eventstreaming/Checksums.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/internal/eventstreaming/Prelude.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/internal/eventstreaming/HeaderValue.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/internal/eventstreaming/Message.java
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 */

// The Amazon S3 DevPay token header is a special exception and can be safely moved

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* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/AmazonS3Client.java
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* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/internal/InitiateMultipartUploadHeaderHandler.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/Tier.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/GetBucketWebsiteConfigurationRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/BucketWebsiteConfiguration.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/DeleteBucketTaggingConfigurationRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/DeleteBucketWebsiteConfigurationRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/DeleteBucketLocationRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/ListObjectsV2Request.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/RedirectRule.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/TransferManagerParams.java
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* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/inventory/InventoryEncryption.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/DeleteMarkerReplication.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/DeleteBucketEncryptionRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/DeleteBucketEncryptionResult.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/inventory/ServerSideEncryptionKMS.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/SetBucketEncryptionRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/SetBucketEncryptionRequest.java

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jar/com/amazonaws/services/s3/model/metrics/MetricsPredicateVisitor.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/ListBucketAnalyticsConfigurationsRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/transfer/internal/DownloadPartCallable.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/metrics/MetricsConfiguration.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/lifecycle/LifecycleAndOperator.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/lifecycle/LifecyclePrefixPredicate.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/SetBucketMetricsConfigurationRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/SetBucketInventoryConfigurationRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/inventory/InventoryPrefixPredicate.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/DeleteBucketMetricsConfigurationResult.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/lifecycle/LifecycleFilter.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/SetBucketAnalyticsConfigurationResult.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/lifecycle/LifecyclePrefixPredicate.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/DeleteBucketMetricsConfigurationRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/inventory/InventoryFrequency.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/SetBucketAnalyticsConfigurationRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/lifecycle/LifecyclePrefixPredicate.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/DeleteBucketMetricsConfigurationRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/inventory/InventoryFrequency.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/SetBucketAnalyticsConfigurationResult.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1jar/com/amazonaws/services/s3/model/SetBucketInventoryConfigurationResult.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1
jar/com/amazonaws/services/s3/model/inventory/InventoryS3BucketDestination.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/GetBucketAnalyticsConfigurationRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/OwnerOverride.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/inventory/InventoryPredicateVisitor.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/analytics/AnalyticsPrefixPredicate.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
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 */
/**
 * Interface for providing encryption materials.
 * Implementations are free to use any strategy for providing encryption
 * materials, such as simply providing static material that doesn't change,
 * or more complicated implementations, such as integrating with existing
 * key management systems.
 */

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* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/internal/crypto/MultipartUploadCryptoContext.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/internal/crypto/CryptoRuntime.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/internal/crypto/S3KeyWrapScheme.java
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* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/AbortIncompleteMultipartUpload.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/internal/S3RequesterChargedResult.java

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  jar/com/amazonaws/services/s3/internal/S3RequestEndpointResolver.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/model/ListMultipartUploadsRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/model/SetRequestPaymentConfigurationRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/model/DeleteObjectRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/transfer/TransferProgress.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/model/CopyObjectRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/transfer/internal/CopyCallable.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/S3ClientOptions.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/internal/S3XmlResponseHandler.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/internal/S3VersionHeaderHandler.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/model/S3Location.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/model/ListPartsRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/model/CryptoConfiguration.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/model/ListObjectsRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/internal/XmWriter.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/model/ObjectMetadata.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
  jar/com/amazonaws/services/s3/model/HeaderInfo.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/transfer/internal/UploadCallable.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/MetadataEntry.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/Region.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/QuoteFields.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/ProgressListener.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/ObjectTaggingProvider.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/CannedAccessControlList.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/internal/BucketNameUtils.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/AbortMultipartUploadRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/AuditRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/InputSerialization.java
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* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/ListBucketsRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/internal/ObjectExpirationHeaderHandler.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/transform/AnalyticsPredicateVisitorImpl.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/transform/AclXmlFactory.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/transfer/internal/S3QueryStringEncodingSigner.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/Encryption.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/transfer/internal/CopyPartCallable.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/internal/S3Signer.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/transform/LifecyclePredicateVisitorImpl.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/PartETag.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/internal/S3ErrorResponseHandler.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/MultipartUploadListing.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/RestoreRequestType.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/AmazonS3.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/StorageClass.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/internal/InputSubstream.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/internal/Constants.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/transfer/internal/CopyImpl.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/DeleteObjectsRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/SelectParameters.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1.jar/com/amazonaws/services/s3/model/transform/AbstractHandler.java
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* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-3-1-11-415-sources-1-jar/com/amazonaws/auth/policy/conditions/S3ConditionFactory.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/EncryptionMaterials.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/CSVOutput.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/ExpressionType.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-3-1-11-415-sources-1-jar/com/amazonaws/services/s3/internal/crypto/AdjustedRangeInputStream.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/HeadBucketRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/transform/BucketConfigurationXmlFactory.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/transform/MultiObjectDeleteXmlFactory.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/EncryptionMaterialsAccessor.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-3-1-11-415-sources-1-jar/com/amazonaws/services/s3/S3ResponseMetadata.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-3-1-11-415-sources-1-jar/com/amazonaws/services/s3/transfer/Transfer.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/transform/ReplicationPredicateVisitorImpl.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-3-1-11-415-sources-1-jar/com/amazonaws/services/s3/internal/IsSigV4RetryablePredicate.java
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/**
 * Synchronous client for accessing Amazon S3.
 *
 * <h1>Appendix: Amazon S3 client-side encryption meta information</h1>
 *
 * <h2>Introduction</h2>
 *
 * This appendix summarizes the current crypto related meta information
 * associated with an S3 object encrypted using SDK client-side encryption. In
* SDK's terminology, these meta information are classified as "user metatdata".
* In general, the meta information is just a map of key/value pairs. Physically
* they are persisted either as metadata of the encrypted S3 object, or as a
* separate S3 object called an "instruction file" (which is just a JSON file in
* plaintext.) For all references to the Cipher Algorithm Names, Modes, and Padding,
* such as <code>"AES/CBC/PKCS5Padding"</code>, please refer to Oracle's <a href="http://docs.oracle.com/javase/7/docs/technotes/guides/security/StandardNames.html" >Java Cryptography Architecture Standard Algorithm Name Documentation</a> for more details.

<h2>S3 metadata vs instruction file</h2>

* Note when a key/value pair is stored as "user metadata" as part of the S3
* metadata, the SDK always adds an additional prefix of <b>x-amz-meta-</b> to
* the key name. In contrast, the SDK doesn't add any prefix when the key names
* are stored in an instruction file. (The reason has to do with how the http
* headers are handled.)

* For example, <b>x-amz-key</b> would get stored as <b>x-amz-meta-x-amz-key</b>
* in S3 metadata. In contrast, <b>x-amz-key</b> would simply be stored as is
* (ie without the prefix) in an instruction file.

* All the keys described below are considered "user metadata" by the SDK.

<h2>S3 v1 crypto meta information (supported by all SDK's)</h2>

* For non-KMS client side encryption, this v1 crypto meta information is used
* to support the "Encryption Only" crypto mode (which involves the use of
* <code>AES/CBC/PKCS5Padding</code> for content encryption, and
* <code>AES/ECB</code> for encrypting the one-time randomly generated data
* key). For KMS client-side encryption, the v2 crypto meta information is used.

* For non-KMS client side encryption, this v1 crypto meta information is used
* to support the "Encryption Only" crypto mode (which involves the use of
* <code>AES/CBC/PKCS5Padding</code> for content encryption, and
* <code>AES/ECB</code> for encrypting the one-time randomly generated data
* key). For KMS client-side encryption, the v2 crypto meta information is used.

* For non-KMS client side encryption, this v1 crypto meta information is used
* to support the "Encryption Only" crypto mode (which involves the use of
* <code>AES/CBC/PKCS5Padding</code> for content encryption, and
* <code>AES/ECB</code> for encrypting the one-time randomly generated data
* key). For KMS client-side encryption, the v2 crypto meta information is used.

* For non-KMS client side encryption, this v1 crypto meta information is used
* to support the "Encryption Only" crypto mode (which involves the use of
* <code>AES/CBC/PKCS5Padding</code> for content encryption, and
* <code>AES/ECB</code> for encrypting the one-time randomly generated data
* key). For KMS client-side encryption, the v2 crypto meta information is used.

* For non-KMS client side encryption, this v1 crypto meta information is used
* to support the "Encryption Only" crypto mode (which involves the use of
* <code>AES/CBC/PKCS5Padding</code> for content encryption, and
* <code>AES/ECB</code> for encrypting the one-time randomly generated data
* key). For KMS client-side encryption, the v2 crypto meta information is used.
* <td><b>x-amz-matdesc</b></td>
* <td>Customer provided material description in JSON (UTF8) format. Used to
* identify the client-side master key (i.e., used to encrypt/wrap the generated
* content encrypting key). </td>
* </tr>
* <tr>
* <td><b>x-amz-unencrypted-content-length</b></td>
* <td>Unencrypted content length (optional but should be specified whenever
* possible). </td>
* </tr>
* </table>

* <h2>S3 v2 crypto meta information (currently supported by the Java SDK) </h2>
* <p>
* This v2 crypto meta information is used to support both authenticated
* encryption (which involves the use of <code>AES/GCM/NoPadding</code> for
* content encryption, and key wrapping for the one-time randomly generated data
* key), and KMS client-side encryption (which can either be encryption-only or
* authenticated encryption.)
* <p>
* <table border=1>
* <tr aligned="left">
* <th>key</th>
* <th>description</th>
* </tr>
* <tr>
* <td width="200">x-amz-key-v2</td>
* <td>CEK in key wrapped form. This is necessary so that the S3 encryption
* client that doesn't recognize the v2 format will not mistakenly decrypt S3
* object encrypted in v2 format. </td>
* </tr>
* <tr>
* <td>x-amz-iv</td>
* <td>Randomly generated IV (per S3 object), base64 encoded. (Same as v1.)</td>
* </tr>
* <tr>
* <td>x-amz-matdesc</td>
* <td>Customer provided material description in JSON format. (Same as v1). Used
* to identify the client-side master key. </td>
* </tr>
* <ul>
* <li>For KMS client-side encryption, the KMS Customer Master Key ID is stored
* as part of the material description, <b>x-amz-matdesc</b>, under the key-name
* </li>
* </ul>
* </table>

* <td><b>x-amz-unencrypted-content-length</b></td>
Unencrypted content length. (optional but should be specified whenever possible. Same as v1.)

Key wrapping algorithm used.

Supported values:
- AESWrap, "RSA/ECB/OAEPWithSHA-256AndMGF1Padding", "kms"

No standard key wrapping is used if this meta information is absent

Always set to "kms" if KMS is used for client-side encryption

Content encryption algorithm used.

Supported values:
- AES/GCM/NoPadding, "AES/CBC/PKCS5Padding"

Default to "AES/CBC/PKCS5Padding" if this key is absent.

Tag length (in bits) when AEAD is in use.

Only applicable if AEAD is in use. This meta information is absent otherwise, or if KMS is in use.

Supported value: "128"

KMS Integration for client-side encryption

All client-side KMS protected S3 objects are stored in v2 crypto meta information format. However, the key wrapping algorithm, <b>x-amz-wrap-alg</b> is always set to "kms".

The KMS Customer Master Key ID is currently stored as part of the material description, <b>x-amz-matdesc</b>, under the key-name "kms_cmk_id"

Sample S3 crypto meta information for KMS client-side encryption
* <h5>CryptoMode: Encryption Only</h5>*
*<pre>
x-amz-meta-x-amz-key-v2:

CiAJ2GqwpJRnt4izujwoalC2YdNRNSMEstG5rw3pEI+J8hKnAQEBAwB4CdhrsKSUZ7eIs7o8KGpQtmHTUTUj
BLJRua8N6RCPiIAAAAB+MHwGCSqGSlb3DQEHBqBvMG0CAQAwaAYJKoZihvcNAQcBMB4GCWCsGSAFl
AwQBLjARBAyDOrzN3KHViWixDVeCARCAOwhZ6xaA8rob3Z0mN3uKFi6HKVylC/PIKhvALvGloVLnf86m
cZJNpTXtwMKnKkDocVj31zGjZTuFtS0H

x-amz-iv: xqOh+M6y0UogwG5SHJM3Q==
x-amz-unencrypted-content-length: 32768
x-amz-cek-alg: AES/CBC/PKCS5Padding
x-amz-wrap-alg: kms
x-amz-matdesc: {"kms_cmk_id":"d3fd2273-4ca0-4da5-b1c2-c89742ec6a26"}
</pre>*
*<h5>CryptoMode: Authenticated Encryption</h5>*
*<pre>
x-amz-key-v2:

CiAJ2GqwpJRnt4izujwoalC2YdNRNSMEstG5rw3pEI+J8hKnAQEBAwB4CdhrsKSUZ7eIs7o8KGpQtmHTUTUj
BLJRua8N6RCPiIAAAAB+MHwGCSqGSlb3DQEHBqBvMG0CAQAwaAYJKoZihvcNAQcBMB4GCWCsGSAFl
AwQBLjARBAyDOrzN3KHViWixDVeCARCAOwhZ6xaA8rob3Z0mN3uKFi6HKVylC/PIKhvALvGloVLnf86m
cZJNpTXtwMKnKkDocVj31zGjZTuFtS0H

x-amz-iv: VZBksyij6DhrUMye
x-amz-unencrypted-content-length: 32768
x-amz-cek-alg: AES/GCM/NoPadding
x-amz-wrap-alg: kms
x-amz-matdesc: {"kms_cmk_id":"d3fd2273-4ca0-4da5-b1c2-c89742ec6a26"}
x-amz-tag-len: 128
</pre>*
*<h2>S3 metadata of an instruction file</h2>*
*<p>*
* The following key is always included as part of the S3 metadata of the
* instruction file (which is just an S3 object). Since the SDK treats this key
* as "user metadata", the key name is always prefixed with <b>x-amz-meta-</b>
* when physically stored.
*<p>*
*<table border=1>*
*<tr aligned="left">* 
*<th>key</th>* 
*<th>description</th>* 
* </tr>*
*<tr>*/
*<td width="200">x-amz-crypto-instr-file</td>*
*<td>the presence of this key is used to indicate this S3 object is an
* instruction file (of an associated client-side encrypted S3 object).</td>*
*/
*<td*/
*<p/>
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*
****************************************************************************
* Convert PKCS#1 encoded private key into RSAPrivateCrtKeySpec.
*
* <p/>The ASN.1 syntax for the private key with CRT is
*
* <pre>
* --
* -- Representation of RSA private key with information for the CRT algorithm.
* --
* RSAPrivateKey ::= SEQUENCE {
*   version   Version,
*   modulus   INTEGER,  -- n
*   publicExponent   INTEGER,  -- e
*   privateExponent   INTEGER,  -- d
*   prime1   INTEGER,  -- p
*   prime2   INTEGER,  -- q
*   exponent1   INTEGER,  -- d mod (p-1)
*   exponent2   INTEGER,  -- d mod (q-1)
*   coefficient   INTEGER,  -- (inverse of q) mod p
*   otherPrimeInfos   OtherPrimeInfos OPTIONAL
* }
* </pre>
*
* @param keyInPkcs1 PKCS#1 encoded key
* @throws IOException
*/

Found in path(s):
* /opt/cola/permits/1146313262_1616500809.75/0/aws-java-sdk-cloudfront-1-11-415-sources-jar/com/amazonaws/auth/RSA.java
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* /opt/cola/permits/1146313262_1616500809.75/0/aws-java-sdk-cloudfront-1-11-415-sources-jar/com/amazonaws/services/cloudfront/util/SignerUtils.java

1.124 libffi 1.2

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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven Bundle Plugin
Automatic-Module-Name: org.jnrproject.jffi
Bnd-LastModified: 1599864364736
Build-Jdk: 11.0.4
Built-By: headius
Bundle-ClassPath: ..jni
Bundle-Description: Java Foreign Function Interface - Native Libraries
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: jffi
Bundle-SymbolicName: com.github.jnr.jffi.native
Bundle-Version: 1.3.0
Fragment-Host: com.github.jnr.jffi
Require-Bundle: com.github.jnr.jffi
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/1242030553_1645092167.83/0/jffi-1-3-0-native-jar/META-INF/MANIFEST.MF

1.125 cloning 1.9.0
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Found in path(s):
* /opt/cola/permits/1135840428_1613612967.07/0/cloning-1-9-0-jar/META-INF/maven/uk.com.robust-it/cloning/pom.xml

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Manifest-Version: 1.0
Bnd-LastModified: 1349353954479
Build-Jdk: 1.7.0_07
Built-By: ariskk
Bundle-Description: The cloning library is a small, open source (Apache licensed) Java library which deep-clones objects. These objects do not have to implement the Cloneable interface. Effectively, this library can clone ANY Java object. It can be used i.e. in cache implementation, if you don't want the cached object to be modified or whenever you want to create a deep copy of an object. Sample usage: You can create a single instance of cloner and use it throughout your application. i.e. Cloner cloner = new Cloner();...cloner.deepClone(o); Please check http://robust-it.co.uk/clone/ for more examples (spring integration, immutable objects etc)
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-ManifestVersion: 2
Bundle-Name: cloning
Bundle-SymbolicName: uk.com.robust-it.cloning
Bundle-Version: 1.9.0
Created-By: Apache Maven Bundle Plugin
Export-Package: com.rits.cloning;uses="org.objenesis";version="1.9.0", com.rits.perspectives;uses="com.rits.cloning";version="1.9.0"
Import-Package: org.objenesis;version="[1.2,2)"
Tool: Bnd-1.50.0

Found in path(s):
* /opt/cola/permits/1135840428_1613612967.07/0/cloning-1-9-0-jar/META-INF/MANIFEST.MF

1.126 common-utils 5.5.5

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* /opt/cola/permits/1257707079_1654000550.5662305/0/common-utils-5-5-5-jar/META-INF/maven/io.confluent/common-utils/pom.xml

1.127 janino 3.1.7
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* /opt/cola/permits/1324541643_1652168028.7538047/0/janino-3-1-7-sources-jar/org/codehaus/janino/TokenType.java
* /opt/cola/permits/1324541643_1652168028.7538047/0/janino-3-1-7-sources-jar/org/codehaus/janino/TokenStream.java
* /opt/cola/permits/1324541643_1652168028.7538047/0/janino-3-1-7-sources-jar/org/codehaus/janino/util/Annotatable.java
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* /opt/cola/permits/1324541643_1652168028.7538047/0/janino-3-1-7-sources-jar/org/codehaus/janino/Opcode.java
* /opt/cola/permits/1324541643_1652168028.7538047/0/janino-3-1-7-sources-jar/org/codehaus/janino/tools/HprofScrubber.java
* /opt/cola/permits/1324541643_1652168028.7538047/0/janino-3-1-7-sources-jar/org/codehaus/janino/Compiler.java
* /opt/cola/permits/1324541643_1652168028.7538047/0/janino-3-1-7-sources-jar/org/codehaus/janino/CompilerFactory.java
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* /opt/cola/permits/1324541643_1652168028.7538047/0/janino-3-1-7-sources-jar/org/codehaus/janino/ScriptEvaluator.java
* /opt/cola/permits/1324541643_1652168028.7538047/0/janino-3-1-7-sources-jar/org/codehaus/janino/Access.java
* /opt/cola/permits/1324541643_1652168028.7538047/0/janino-3-1-7-sources-jar/org/codehaus/janino/samples/DeclarationCounter.java
* /opt/cola/permits/1324541643_1652168028.7538047/0/janino-3-1-7-sources-jar/org/codehaus/janino/Mod.java
* /opt/cola/permits/1324541643_1652168028.7538047/0/janino-3-1-7-sources-jar/org/codehaus/janino/AntCompilerAdapter.java
* /opt/cola/permits/1324541643_1652168028.7538047/0/janino-3-1-7-sources-jar/org/codehaus/janino/ReflectionIClass.java
* /opt/cola/permits/1324541643_1652168028.7538047/0/janino-3-1-7-sources-jar/org/codehaus/janino/util/ClassFile.java
* /opt/cola/permits/1324541643_1652168028.7538047/0/janino-3-1-7-sources-jar/org/codehaus/janino/SimpleCompiler.java
* /opt/cola/permits/1324541643_1652168028.7538047/0/janino-3-1-7-sources-jar/org/codehaus/janino/ClassBodyEvaluator.java
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* /opt/cola/permits/1166270718_1651807062.31/0/versly-wsdoc-1-1-012.jar/org/versly/rest/wsdoc/RestDocumentation.ftl
* /opt/cola/permits/1166270718_1651807062.31/0/versly-wsdoc-1-1-012-jar/META-INF/maven/org.versly/versly-wsdoc/pom.xml

1.129 json-path 2.6.0

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* /opt/cola/permits/1182835369_1627061008.73/0/json-path-2-6-0-sources-jar/com/jayway/restassured/internal/path/json/mapping/JsonPathJackson1ObjectDeserializer.groovy
* /opt/cola/permits/1182835369_1627061008.73/0/json-path-2-6-0-sources-jar/com/jayway/restassured/mapper/factory/DefaultJackson1ObjectMapperFactory.java
* /opt/cola/permits/1182835369_1627061008.73/0/json-path-2-6-0-sources-jar/com/jayway/restassured/internal/path/json/mapping/JsonPathGsonObjectDeserializer.groovy
* /opt/cola/permits/1182835369_1627061008.73/0/json-path-2-6-0-sources-jar/com/jayway/restassured/mapper/factory/DefaultGsonObjectMapperFactory.java
* /opt/cola/permits/1182835369_1627061008.73/0/json-path-2-6-0-sources-jar/com/jayway/restassured/mapper/factory/DefaultJackson2ObjectMapperFactory.java
* /opt/cola/permits/1182835369_1627061008.73/0/json-path-2-6-0-sources-jar/com/jayway/restassured/mapper/factory/Jackson2ObjectMapperFactory.java
* /opt/cola/permits/1182835369_1627061008.73/0/json-path-2-6-0-sources-jar/com/jayway/restassured/mapper/factory/Jackson1ObjectMapperFactory.java

1.130 logging-interceptor 3.14.9
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* /opt/cola/permits/1199746110_1630577833.08/0/logging-interceptor-3-14-9-sources-1-jar/okhttp3/logging/LoggingEventListener.java
1.131 jetty-io 9.4.46.v20220331

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* org.eclipse.jetty.orbit:javax.security.auth.message

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/mapper/TypeMapper.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/byref/LongLongByReference.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/Address.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/LibraryOption.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/jffi/SymbolNotFoundError.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/jffi/ARM_64StubCompiler.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/mapper/FromNativeConverter.java
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jar/jffi/provider/jffi/AsmLibraryLoader.java
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* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/jffi/provider/IdentityFunctionMapper.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/jffi/provider/NullTypeMapper.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/jffi/provider/InAccessibleMemoryIO.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/jffi/provider/InvocationSession.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/jffi/provider/Platform.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/jffi/provider/InAccessibleMemoryIO.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/jffi/provider/Platform.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/jffi/ArrayMemoryIO.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/annotations/Fn.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/AbstractRuntime.java
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* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/jffi/CodeGenUtils.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/NullMemoryIO.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/AbstractArrayMemoryIO.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/mapper/MethodParameterContext.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/byref/ShortByReference.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/Invoker.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/jffi/InvokerUtil.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/NativeLong.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/DataConverter.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/ShareMemoryIO.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/byref/FloatByReference.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/byref/PointerByReference.java
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* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/jffi/X86_32StubCompiler.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/byref/NativeLongByReference.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/jffi/AbstractX86StubCompiler.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/annotations/Direct.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/jffi/AbstractA64StubCompiler.java
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* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/AbstractMemoryIO.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/jffi/StubCompiler.java
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* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/jffi/ByteBufferMemoryIO.java
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* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/jffi/platform/ppc64/linux/TypeAliases.java

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* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/ConverterMetaData.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/ResultType.java
* /opt/cola/permits/1151462100_1617905423.2/0/jnr-ffi-2-2-2-sources-jar/jnr/ffi/provider/ToNativeType.java

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1.141 archaius-core 0.4.1
### 1.142 antlr 2.7.7

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The primary ANTLR guy:

Terence Parr
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parrt@antlr.org

### 1.143 kafka-avro-serializer 5.5.5

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```xml
<project xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://maven.apache.org/POM/4.0.0" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
</project>
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<parent>
  <groupId>io.confluent</groupId>
  <artifactId>kafka-schema-registry-parent</artifactId>
  <version>5.5.5</version>
</parent>

<licenses>
  <license>
    <name>Apache License 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
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  </license>
</licenses>

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</configuration>
</execution>
</executions>
</plugin>
</plugins>
</build>
</project>

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1.144 netty-codec 4.1.76.Final
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 */
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 */
/**
 * Utility class for [ @link ByteBuf ] that encodes and decodes to and from
 * <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * <p>
 * The encoding and decoding algorithm 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>.
 */

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*/
/**
* A decoder that splits the received ByteBufs 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>
* [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>
* <p>
* The value of the length field in this example is 12 (0x0C) 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>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
* </pre>
* 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>
* <p>
* Because we can get the length of the content by calling
* ByteBuf#readableBytes(), you might want to strip the length
* field by specifying initialBytesToStrip. In this example, we
* specified 2, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 0

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+

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 lengthAdjustment. Because the length value in this example message is always greater than the body length by 2, we specify -2 for compensation.

The following message is a simple variation of the first example. An extra header value is prepended to the message. lengthAdjustment is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.
* 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 &lt;tt&gt;lengthAdjustment&lt;/tt&gt; so that the decoder counts the extra
* header into the frame length calculation.

* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* 2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>

* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the &lt;tt&gt;lengthFieldOffset&lt;/tt&gt; and the extra
* header affects the &lt;tt&gt;lengthAdjustment&lt;/tt&gt;. We also specified a non-zero
* &lt;tt&gt;initialBytesToStrip&lt;/tt&gt; to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify &lt;tt&gt;0&lt;/tt&gt; for &lt;tt&gt;initialBytesToSkip&lt;/tt&gt;.

* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into \texttt{lengthAdjustment}.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.

```
* lengthFieldOffset = 1
* lengthFieldLength = 2
* \texttt{lengthAdjustment} = -3 (= the length of HDR1 + LEN, negative)
* \texttt{initialBytesToStrip} = 3
*
* BEFORE DECODE (16 bytes)                        AFTER DECODE (13 bytes)
* +-----------------+-----------------+-----------------+      +-----------------+-----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | HELLO, WORLD   |      | 0xFE | HELLO, WORLD   |
* +-----------------+-----------------+-----------------+      +-----------------+-----------------+
* </pre>

* @see LengthFieldPrepender

/*

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  jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-
  jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-
  jar/io/netty/handler/codec/ValueConverter.java
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  jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-
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* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/compression/LengthFieldPrepender.java
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* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/compression/CompressionOptions.java
* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/compression/Zstd.java
* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java
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// Found in path(s):
// /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-
// jar/io/netty/handler/codec/compression/CompressionUtil.java
// /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-
// jar/io/netty/handler/codec/DatagramPacketDecoder.java
// /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-
// jar/io/netty/handler/codec/compression/ByteBufChecksum.java
// /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-
// jar/io/netty/handler/codec/CodecOutputList.java
// /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-
// jar/io/netty/handler/codec/string/LineSeparator.java
// /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-
// jar/io/netty/handler/codec/DateFormatter.java
// /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-
// jar/io/netty/handler/codec/string/LineEncoder.java
// /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-
// jar/io/netty/handler/codec/DatagramPacketEncoder.java

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* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
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* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/UnsUPPORTEDValueConverter.java
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* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java

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* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1316669180_1651029553.7/0/netty-codec-4-1-76-final-sources-
1.145 jackson-xc 2.13.2
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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
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1.147 avro 1.9.2

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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
  jar/com/google/gson/internal/bind/JsonTreeReader.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
  jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
  jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
  jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
  jar/com/google/gson/TypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
  jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
  jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
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  jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
  jar/com/google/gson/internal/bind/JsonTreeWriter.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/LongSerializationPolicy.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/FieldAttributes.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2.jar/com/google/gson/JsonDeserializer.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2.jar/com/google/gson/JsonPrimitive.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2.jar/com/google/gson/ExclusionStrategy.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2.jar/com/google/gson/annotations/Until.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/LinkedHashTreeMap.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/reflect/PreJava9ReflectionAccessor.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/PreJava9DateFormatProvider.java
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1.160 netty-codec-socks 4.1.76.Final

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1.162 assertj-core 3.21.0

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*
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY" target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>&quot; for more details.
* 
* @author David DIDIER
* @author Yvonne Wang
* @author Alex Ruiz
* @author Olivier Michallat
* @author Olivier Demeijer
* @author Mikhail Mazursky
* @author Jean-Christophe Gay
* @author Valeriy Vyrva
* @author Nikolaos Georgiou
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 * Base class for all implementations of assertions for [ @link Double ]s.
 *
 * @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY" target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>&quot; for more details.
 *
 * @author Drummond Dawson
 * @author Yvonne Wang
 * @author David DIDIER
 * @author Alex Ruiz
 * @author Ansgar Konermann
 * @author Joel Costigliola
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 * @author Nicolas François
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 */

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 * Base class for all implementations of assertions for [ @link Short ]s.
 *
 * @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY" target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>&quot; for more details.
 *
 * @author Drummond Dawson
 * @author Yvonne Wang
* @author David DIDIER
* @author Angar Konermann
* @author Alex Ruiz
* @author Mikhail Mazursky
* @author Nicolas François
* @author Cal027
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* /opt/cola/permits/1343624482_1655139191.7098045/0/assertj-core-3-21-0-sources-2-
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* Base class for all implementations of assertions for [ CharSequence]s.
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY" target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>&quot; for more details.
* @param <ACTUAL> the type of the "actual" value.
* @author Yvonne Wang
* @author David DIDIER
* @author Alex Ruiz
* @author Joel Costigliola
* @author Mikhail Mazursky
* @author Nicolas Francois
* @author Daniel Weber
*/

Found in path(s):
* /opt/cola/permits/1343624482_1655139191.7098045/0/assertj-core-3-21-0-sources-2-
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* */
/**
* Base class for all implementations of assertions for [Map]s.
* *
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY" target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>&quot; for more details.
* @param <ACTUAL> the type of the "actual" value.
* @param <K> the type of keys in the map.
* @param <V> the type of values in the map.
* *
* @author David DIDIER
* @author Yvonne Wang
* @author Alex Ruiz
* @author Mikhail Mazursky
* @author Nicolas François
* @author dorzey
* @author Filip Hrisafov
*/

Found in path(s):
* /opt/cola/permits/1343624482_1655139191.7098045/0/assertj-core-3-21-0-sources-2.jar/org/assertj/core/api/AbstractMapAssert.java
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/**
* Base class for all implementations of assertions for { @link Collection}s.
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY" target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>&quot; for more details.
* @param <ACTUAL> the type of the "actual" value.
* @param <ELEMENT> the type of elements of the "actual" value.
* @param <ELEMENT_ASSERT> used for navigational assertions to return the right assert type.
* @since 3.21.0
*/

Found in path(s):
* /opt/cola/permits/1343624482_1655139191.7098045/0/assertj-core-3-21-0-sources-2-jar/org/assertj/core/api/AbstractCollectionAssert.java
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/**
* Base class for all implementations of assertions for { @link Float}s.
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY" target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>&quot; for more details.
* 
* @author Drummond Dawson
* @author Yvonne Wang
* @author Alex Ruiz
* @author Ansgar Konermann
* @author Mikhail Mazursky
* @author Nicolas François
* @author Jin Kwon
*/

Found in path(s):
* /opt/cola/permits/1343624482_1655139191.7098045/0/assertj-core-3-21-0-sources-2-jar/org/assertj/core/api/AbstractFloatAssert.java
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 */
/**
 * Base class for all implementations of assertions for [@link BigDecimal]s.
 *
 * @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY" target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>&quot; for more details.
 *
 * @author Drummond Dawson
 * @author David DIDIER
 * @author Ted M. Young
 * @author Yvonne Wang
 * @author Alex Ruiz
 * @author Joel Costigliola
 * @author Mikhail Mazursky
 */

Found in path(s):
* /opt/cola/permits/1343624482_1655139191.7098045/0/assertj-core-3-21-0-sources-2-jar/org/assertj/core/api/AbstractBigDecimalAssert.java
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 */
/**
 * Base class for implementations of <code>{@link ObjectEnumerableAssert}</code> whose actual value type is
 * <code>{@link Collection}</code>.
 *
 * @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY" target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>&quot; for more details.
 * @param <ACTUAL> the type of the "actual" value.
 * @param <ELEMENT> the type of elements of the "actual" value.
 * @param <ELEMENT_ASSERT> used for navigational assertions to return the right assert type.
 *
 * @author Yvonne Wang
 * @author Alex Ruiz
 * @author Mathieu Baechler
 * @author Joel Costigliola
 * @author Maciej Jaskowski
 * @author Nicolas François
 * @author Mikhail Mazursky
 * @author Mateusz Haligowski
 * @author Lovro Pandzic
 * @author Marko Bekhta
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* Base class for all implementations of assertions for {Long}s.
 *
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIrCy" target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>&quot; for more details.
* @author Drummond Dawson
* @author Yvonne Wang
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* /opt/cola/permits/1343624482_1655139191.7098045/0/assertj-core-3-21-0-sources-2-jar/org/assertj/core/error/ShouldBeEqualNormalizingPunctuationAndWhitespace.java
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*/
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* Base class for all assertions.
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY" target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
* implementation</a>&quot; for more details.
* @param <ACTUAL> the type of the "actual" value.
* @author Alex Ruiz
* @author Joel Costigliola
* @author Mikhail Mazursky
* @author Nicolas François
*/

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*/
/**
* Base class for all implementations of assertions for \[@link Character\]s.
* 
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY" target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>&quot; for more details.
* 
* @author Yvonne Wang
* @author David DIDIER
* @author Ansgar Konermann
* @author Alex Ruiz
* @author Joel Costigliola
* @author Mikhail Mazursky
*/

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*/
/**
* Base class for all implementations of assertions for \[@link Byte\]s.
* 
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY" target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>&quot; for more details.
* 
* @author Drummond Dawson
* @author Yvonne Wang
* @author David DIDIER
* @author Ansgar Konermann
* @author Alex Ruiz
* @author Mikhail Mazursky
*/
* @author Nicolas François
* @author Cal027
*/

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  *
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  */
/** *
* Base class for all implementations of assertions for {\link List}s.
* @param <SELF> the "self" type of this assertion class. Please read "Emulating 'self types' using Java Generics to simplify fluent API
  implementation" for more details.
* @param <ACTUAL> the type of the "actual" value.
* @param <ELEMENT> the type of elements of the "actual" value.
* @param <ELEMENT_ASSERT> used for navigational assertions to return the right assert type.
* *
* @author Yvonne Wang
* @author Alex Ruiz
* @author Joel Costigliola
* @author Mikhail Mazursky
* @author Jacek Jackowiak
*/

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/*
 * @author Grzegorz Piwowarek
 * @since 3.16.0
 */

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  jar/org/assertj/core/api/AbstractLongAdderAssert.java
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 */
/**
 * Assertions methods applicable to groups of objects (e.g. arrays or collections.)
 *
 * @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY"
  target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
  implementation</a>&quot; for more details.
 * @param <ELEMENT> the type of elements of the "actual" value.
 *
 * @author Yvonne Wang
 * @author Alex Ruiz
 * @author Nicolas François
 * @author Mikhail Mazursky
 * @author Joel Costigliola
 * @author Nicolas François
 * @author Florent Biville
 */

Found in path(s):
* /opt/cola/permits/1343624482_1655139191.7098045/0/assertj-core-3-21-0-sources-2-
  jar/org/assertj/core/api/ObjectEnumerableAssert.java
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/**
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY" target="blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>&quot; for more details.
* @param <ACTUAL> the type of the "actual" value.
* @author David DIDIER
* @author Alex Ruiz
* @author Joel Costigliola
* @author Mikhail Mazursky
* @author Jack Gough
* @author Mike Gilchrist
*/

Found in path(s):
* /opt/cola/permits/1343624482_1655139191.7098045/0/assertj-core-3-21-0-sources-2-
  jar/org/assertj/core/api/AbstractThrowableAssert.java
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*/
/**
* Base class for all implementations of assertions for [@link Integer]s.
*
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY" target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>&quot; for more details.
*
* @author Drummond Dawson
* @author Yvonne Wang
* @author David DIDIER
* @author Ansgar Konermann
* @author Alex Ruiz
* @author Joel Costigliola
* @author Mikhail Mazursky
* @author Nicolas François
* @author Cal027
*/

Found in path(s):
* /opt/cola/permits/1343624482_1655139191.7098045/0/assertj-core-3-21-0-sources-2.jar/org/assertj/core/api/AbstractIntegerAssert.java
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*/
/**
* Base class for all implementations of assertions for [@link InputStream]s.
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY" target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>&quot; for more details.
* @param <ACTUAL> the type of the "actual" value.
*
Base class for all implementations of assertions for \texttt{@link Object}s.

@code
@<param \texttt{SELF}> the "self" type of this assertion class. Please read \texttt{&quot;Emulating 'self types' using Java Generics to simplify fluent API implementation&quot;} for more details.

@<param \texttt{ACTUAL}> the type of the "actual" value.

@author Yvonne Wang
@author Alex Ruiz
@author Nicolas François
@author Mikhail Mazursky
@author Joel Costigliola
@author Libor Ondrusek
@endcode

Base class for all implementations of assertions for \texttt{@link Date}s.

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BASE
Note that assertions with date parameter comes with two flavor, one is obviously a [link Date] and the other is a [link String] representing a Date. For the latter, the default format follows ISO 8901: "yyyy-MM-dd", user can override it with a custom format by calling [link #withDateFormat(DateFormat)]. The user custom format will then be used for all next Date assertions (i.e not limited to the current assertion) in the test suite. To turn back to default format, simply call [link #withDefaultDateFormatsOnly()].

@command <SELF> the "self" type of this assertion class. Please read "<a href="http://bit.ly/1IZIRcY" target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>" for more details.

@author Tomasz Nurkiewicz (thanks for giving assertions idea)
@author Joel Costigliola
@author Mikhail Mazursky
@author William Delanoue
@author Michal Kordas
@author Eddú Meléndez

Found in path(s):
/opt/cola/permits/1343624482_1655139191.7098045/0/assertj-core-3-21-0-sources-2.jar/org/assertj/core/api/AbstractDateAssert.java

1.163 classgraph 4.8.21
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 *
 * Author: Luke Hutchison (luke.hutch@gmail.com)
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* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/MethodParameterInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/ScanResult.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/ScanResultObject.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/nonapi/io/github/classgraph/fastzipfilereader/RecyclableInflater.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/nonapi/io/github/classgraph/utils/InputStreamOrByteBufferAdapter.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/ModuleInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/BaseTypeSignature.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxContextFinderClassLoader.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/ObjectTypedValueWrapper.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/ClasspathElementModule.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/AnnotationParameterValueList.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/nonapi/io/github/classgraph/json/ReferenceEqualityKey.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/nonapi/io/github/classgraph/types/ParseException.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/TypeArgument.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/nonapi/io/github/classgraph/json/ClassFields.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/nonapi/io/github/classgraph/concurrency/InterruptionChecker.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/MethodInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/AnnotationClassRef.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/ClassRefTypeSignature.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/nonapi/io/github/classgraph/utils/URLPathEncoder.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/nonapi/io/github/classgraph/ScanSpec.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/concurrency/SingletonMap.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/MappableInfoList.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/HasName.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ModuleRef.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/ClassFieldCache.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxClassLoaderHandler.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassGraphException.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/NestedJarHandler.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassTypeSignature.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classpath/ClassLoaderAndModuleFinder.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassGraph.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ModuleReaderProxy.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/json/FieldTypeInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/classpath/ClassLoaderAndModuleFinder.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/Resource.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/Resource.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/Resource.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/HierarchicalTypeSignature.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/PackageInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/utils/CollectionUtils.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/json/JSONSerializer.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classpath/SystemJarFinder.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/types/TypeUtils.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/TypeSignature.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/nonapi/io/github/classgraph/utils/ReflectionUtils.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/io/github/classgraph/PackageInfoList.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/nonapi/io/github/classgraph/json/Id.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/nonapi/io/github/classgraph/ClassInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/io/github/classgraph/FieldInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/nonapi/io/github/classgraph/json/ParameterizedTypeImpl.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/nonapi/io/github/classgraph/json/JSONArray.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/io/github/classgraph/ClassInfoList.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/io/github/classgraph/Scanner.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/io/github/classgraph/GraphvizDotfileGenerator.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/nonapi/io/github/classgraph/recycler/Recycler.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/io/github/classgraph/FieldInfoList.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/nonapi/io/github/classgraph/types/Parser.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/io/github/classgraph/AnnotationInfoList.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/nonapi/io/github/classgraph/classpath/ClasspathFinder.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/nonapi/io/github/classgraph/classloaderhandler/ParentLastDelegationOrderTestClassLoaderHandler.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/nonapi/io/github/classgraph/utils/JarUtils.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/nonapi/io/github/classgraph/utils/FileUtils.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/io/github/classgraph/MethodTypeSignature.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/nonapi/io/github/classgraph/json/JSONReference.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/nonapi/io/github/classgraph/utils/LogNode.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/io/github/classgraph/Classfile.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/nonapi/io/github/classgraph/fastzipfilereader/ZipFileSliceReader.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/nonapi/io/github/classgraph/json/JSONParser.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources.jar/io/github/classgraph/ClassInfoList.java
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 *
 * Author: Sergey Bespalov
 *
 * Hosted at: https://github.com/classgraph/classgraph
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* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/WebsphereTraditionalClassLoaderHandler.java
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  jar/nonapi/io/github/classgraph/classloaderhandler/AntClassLoaderHandler.java
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  INF/maven/io.github.classgraph/classgraph/pom.xml
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* This file is part of ClassGraph. 
* 
* Author: Luke Hutchison 
* 
* Hosted at: https://github.com/classgraph/classgraph 
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.171 jakarta-inject 2.6.1
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/FactoryHelper.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewMethod.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/buffer/annotation/NoSuchClassError.java
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* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/Url.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/OkHttpCall.java
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* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/RequestFactory.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/CallAdapter.java

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* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/SkipCallbackExecutorImpl.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/SkipCallbackExecutor.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AggregateFutureState.java
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jar/com/datastax/oss/driver/shaded/guava/common/collect/ConsumingQueueIterator.java
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jar/com/datastax/oss/driver/shaded/guava/common/hash/MacHashFunction.java
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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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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/UncheckedTimeoutException.java
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jar/com/datastax/oss/driver/shaded/guava/common/graph/Graph.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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jar/com/datastax/oss/driver/shaded/guava/common/graph/Network.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/graph/MutableGraph.java

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources.jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources.jar/com/datastax/oss/driver/shaded/guava/common/hash/LongAddables.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ForwardingNavigableSet.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/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/reflect/TypeVisitor.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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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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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.
 */

Found in path(s):
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/dasta\tax/oss/driver/shaded/guava/common/util/concurrent/Partially.java

1.180 uuid 3.2

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 *
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jar/javax/activation/DataHandler.java

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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/RangeToken.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/message_ja.properties
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/message_fr.properties
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
  jar/com/sun/msv/datatype/regexp/InternalImpl.java

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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/RegularExpression.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/ParseException.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/Match.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/REUtil.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/Token.java

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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Messages.properties
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Messages_ja.properties

1.188 metrics 4.2.9
1.188.1 Available under license:

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics
Build-Jdk-Spec: 11
Bundle-Description: Metrics is a Java library which gives you unparalleled insight into what your code does in production. Metrics provides a powerful toolkit of ways to measure the behavior of critical components in your production environment.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Core
Bundle-SymbolicName: io.dropwizard.metrics.core
Bundle-Version: 4.2.9
Created-By: Apache Maven Bundle Plugin 5.1.4
Export-Package: com.codahale.metrics;uses:="org.slf4j";version="4.2.9"
Implementation-Title: Metrics Core
Implementation-Version: 4.2.9
Import-Package: org.slf4j;version="[1.6.0,2.0.0)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /opt/cola/permits/1295050861_1651806904.61/0/metrics-core-4-2-9-jar/META-INF/MANIFEST.MF
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1.190 velocity 1.7

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/**
 * Constructs a new {LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the {LocalVariablesSorter(int, int, String, MethodVisitor)}
 * version.
 * @param access access flags of the adapted method.
 * @param descriptor the method's descriptor (see {Type}).
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @throws IllegalStateException if a subclass calls this constructor.
 */

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 * Constructs a new {@link AnnotationRemapper}. <i>Subclasses must not use this constructor</i>.
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 *
 * @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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 * Constructs a new {@link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
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 *
 * @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.
 */

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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:
 * <ul>
 * <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 * </ul>
* Alternatively, the following adapter classes are provided for your convenience:

* A [@link ChannelInboundHandlerAdapter] to handle inbound I/O events.
* A [@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and
* A [@link ChannelDuplexHandler] to handle both inbound and outbound events.

* For more information, please refer to the documentation of each subtype.

* The context object

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.

* State management

A [@link ChannelHandler] often needs to store some stateful information.

The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends @link SimpleChannelInboundHandler<Message> {
    private boolean loggedIn;

    @Override
    public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }

    private boolean fail();
    // your method here
}
```
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:

```java
// 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", new DataServerHandler());
    }
}

<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}`:

```java
public interface Message {
    // your methods here
}

{@code @Sharable}
public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
    private final {@link AttributeKey}<{@link Boolean}> auth = AttributeKey.valueOf("auth");

    {@code @Override}
    public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
        Attribute<{@link Boolean}> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}
```
Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends ChannelInitializer<Channel> {
    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

**The `@Sharable` annotation**

In the example above which used an `AttributeKey`, you might have noticed the `@Sharable` annotation. If a `ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipeline`s multiple times without a race condition.

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.

This annotation is provided for documentation purpose, just like the JCIP annotations.

**Additional resources worth reading**

Please refer to the `ChannelHandler`, and `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/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/channel/ChannelHandlerMask.java
* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/channel/EventLoopTaskQueueFactory.java

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* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java
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* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/channel/internal/ChannelUtils.java
* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/channel/internal/package-info.java
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* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/channel/PendingBytesTracker.java
* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
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* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
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* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-jar/io/netty/channel/pool/ChannelPool.java
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  jar/io/netty/channel/group/DefaultChannelGroup.java
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  jar/io/netty/channel/ChannelId.java
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  jar/io/netty/channel/AddressedEnvelope.java
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  jar/io/netty/channel/socket/SocketChannelConfig.java
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  jar/io/netty/channel/ChannelInboundHandler.java
* /opt/cola/permits/1316669191_1651029547.78/0/netty-transport-4-1-76-final-sources-
  jar/io/netty/channel/socket/oio/package-info.java
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  jar/io/netty/channel/local/LocalChannelRegistry.java
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  jar/io/netty/channel/ChannelPromiseNotifier.java
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1.196 jackson-datatype-jsr310 2.13.2

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 * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/AsyncCompletionHandler.java
 * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/proxy/ProxyServer.java
 * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async(http-client-2-11-0-sources-jar/org/asynchttpclient/Request.java
 * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async(http-client-2-11-0-sources-jar/org/asynchttpclient/Response.java
 * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async(http-client-2-11-0-sources-jar/org/asynchttpclient/AsyncHttpClient.java
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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchnetty/channel/MaxConnectionSemaphore.java
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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchnetty/netty/channel/InfiniteSemaphore.java
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 * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources.jar/org/asynchttpclient/netty/request/body/NettyInputStreamBody.java
 * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources.jar/org/asynchttpclient/ClientStats.java
 * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources.jar/org/asynchttpclient/netty/NettyResponse.java
 * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources.jar/org/asynchttpclient/netty/request/body/NettyInputstreamBody.java
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# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
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#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <http://www.iana.org/assignments/media-types/>.
#
# MIME type (lowercased)Extensions
# ==============================================================
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-insetez
# application/applefile
application/applixwareaw
# application/atf
# application/atfx
application/atom+xml
application/atomcat+xml
# application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtp
# application/beep+xml
# application/calendar+json
# application/calendar+xml
# application/call-completion
# application/cals-1840
# application/cbor
# application/ccmp+xml
application/ccxml+xml
# application/cdfx+xml
application/cdmi-capability
application/cdmi-container
application/cdmi-domain
application/cdmi-object
# application/eshop
# application/example
application/exi
# application/fastinfoiset
# application/fastsoap
# application/fdt+xml
# application/fits
# application/font-sfnt
application/font-tdf
application/font-woff
# application/framework-attributes+xml
application/gml+xml
application/gpx+xml
application/gxf
# application/gzip
# application/h224
# application/held+xml
# application/http
application/hyperstudio
# application/ibe-key-request+xml
# application/ibe-pkg-reply+xml
# application/ibe-pp-data
# application/iges
# application/im-iscomposing+xml
# application/index
# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
application/inkml+xml
# application/iotp
application/ipfix
# application/ipp
# application/isup
# application/its+xml
application/java-archive
application/java-serialized-object
application/java-vm
application/javascript
# application/jose
# application/jose+json
# application/jrd+json
application/json
# application/json-patch+json
# application/json-seq
application/jsonml+xml
# application/jwk+json
# application/jwk-set+json
# application/set-payment
application/set-payment-initiation
# application/set-registration
application/set-registration-initiation
# application/sgml
# application/sgml-open-catalog
application/shf+xml
# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smil
application/smil+xml
# application/sml
# application/sparql-query
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# application/ssdl
# application/ssml+xml
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application/vnd.handheld-entertainment+xml
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# audio/vnd.audiokoz
# audio/vnd.celp
# audio/vnd.cisco.nse
# audio/vnd.cmlles.radio-events
# audio/vnd.cns.anp1
# audio/vnd.cns.inf1
audio/vnd.dece.audiouva.uvva
audio/vnd.digital-windseol
# audio/vnd.dlna.adts
# audio/vnd.dolby.heaac.1
# audio/vnd.dolby.heaac.2
# audio/vnd.dolby.mlp
# audio/vnd.dolby.mps
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audio/vnd.dra
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# audio/vnd.octel.sbc
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# audio/vnd.rhetorex.32kadpcm
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# audio/vnd.vmx.cvsd
# audio/vorbis
# audio/vorbis-config
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audio/x-aac
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audio/x-aifc
audio/x-aiff-aifc
audio/x-afl
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audio/x-matroskamka
audio/x-mpegurl
audio/x-ms-wax
audio/x-ms-wma
audio/x-pn-realad
audio/x-pn-realaudio-plugin
# audio/x-tta
audio/x-wav
audio/x-xm
chemical/x-cdx
chemical/x-cif
chemical/x-cmdf
chemical/x-cml
chemical/x-csml
# chemical/x-pdb
chemical/x-xyz
image/bmp
image/cgm
# image/example
# image/fits
image/g3fax
image/gif
image/ief
# image/jp2
image/jpeg
image/jpeg
image/jpeg
# image/jpm
# image/jpx
image/ktx
# image/napls
image/png
image/prs.btif
# image/prs.pti
# image/pwg-raster
image/sgi
image/svg+xml
# image/t38
image/tiff
# image/tiff-fx
image/vnd.adobe.photoshop
# image/vnd.airzip.accelerator.azv
# image/vnd.cns.inf2
# message/example
# message/external-body
# message/feedback-report
# message/global
# message/global-delivery-status
# message/global-disposition-notification
# message/global-headers
# message/http
# message/imdn+xml
# message/news
# message/partial
message/rfc822eml mime
# message/s-http
# message/sip
# message/sipfrag
# message/tracking-status
# message/vnd.si.simp
# message/vnd.wfa.wsc
# model/example
model/igesigs iges
model/meshmsh mesh silo
model/vnd.collada+xmlldae
model/vnd.dwf
# model/vnd.flatland.3dml
model/vnd.gdl
dl
# model/vnd.gs-gdl
# model/vnd.gs.gdl
model/vnd.gtwgtw
# model/vnd.moml+xml
model/vnd.mts
# model/vnd.opengex
# model/vnd.parasolid.transmit.binary
# model/vnd.parasolid.transmit.text
# model/vnd.rosette.annotated-data-model
# model/vnd.valve.source.compiled-map
model/vnd.vtvtu
model/vrmlwrl vrml
model/x3d+binaryx3d x3dbz
# model/x3d+fastinfoset
model/x3d+vrmlx3d v3dz
model/x3d+xmlldx3d x3dz
# model/x3d-vrml
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# multipart/encrypted
# multipart/example
# video/3gpp-tt
video/3gpp23g2
# video/bmpeg
# video/bt656
# video/celb
# video/dv
# video/encaprtip
# video/example
video/h261h261
video/h263h263
# video/h263-1998
# video/h263-2000
video/h264h264
# video/h264-rcdo
# video/h264-svc
# video/h265
# video/iso.segment
video/jpegjpv
# video/jpeg2000
video/jpmjpm jpgm
video/mj2mj2 mj2
# video/mp1s
# video/mp2p
# video/mp2t
video/mp4mp4 mp4v mpg4
# video/mp4v-es
video/mpegmpeg mpg mpe m1v m2v
# video/mpeg4-generic
# video/mpv
# video/nv
video/oggogv
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# video/pointer
video/quicktimeqt mov
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# video/raw
# video/rtp-enc-aescm128
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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/network/LazyResponseBodyPart.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/PartBase.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/part/PartVisitor.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/Param.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/network/OnLastHttpContentCallback.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/ChannelPoolPartitioning.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/ByteArrayPart.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/file/FileLikePart.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/file/FilePart.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/channel/ChannelPoolPartitioning.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/StringPart.java
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   * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchnclient/ws/WebSocketUpgradeHandler.java
   * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchnclient/oauth/OAuthSignatureCalculatorInstance.java
   * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchnclient/util/MessageDigestUtils.java
   * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchnclient/oauth/Parameter.java
   * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchnclient/cookie/Parameters.java
   * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchnclient/cookie/CookieStore.java

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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources.jar/org/asynchttpclient/request/body/generator/ReactiveStreamsBodyGenerator.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources.jar/org/asynchttpclient/netty/handler/StreamedResponsePublisher.java
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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/async-http-client-2-11-0-sources-jar/org/asynchttpclient/handler/TransferCompletionHandler.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/async-http-client-2-11-0-sources-jar/org/asynchttpclient/util/MiscUtils.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/async-http-client-2-11-0-sources-jar/org/asynchttpclient/ws/WebSocketListener.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/async-http-client-2-11-0-sources-jar/org/asynchttpclient/filter/FilterException.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/async-http-client-2-11-0-sources-jar/org/asynchttpclient/webdav/WebDavCompletionHandlerBase.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/async-http-client-2-11-0-sources-jar/org/asynchttpclient/handler/resumable/PropertiesBasedResumableProcessor.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/async-http-client-2-11-0-sources-jar/org/asynchttpclient/ws/WebSocketListener.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/async-http-client-2-11-0-sources-jar/org/asynchttpclient/handler/TransferListener.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/async-http-client-2-11-0-sources-jar/org/asynchttpclient/handler/TransferListener.java

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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/filter/FilterContext.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/filter/ThrottleRequestFilter.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/generator/InputStreamBodyGenerator.java

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 */

/**
* Value class used for OAuth tokens (request secret, access secret);
* simple container with two parts, public id part ("key") and
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*/

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1.205 mixpanel-java 1.5.0

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1.206 servlet-api 4.0.0

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1.207 tyrus-client 1.17

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyStatement.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/HikariPoolMXBean.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTracker.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/HikariConfigMXBean.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources.jar/com/zaxxer/hikari/pool/ProxyResultSet.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources.jar/com/zaxxer/hikari/util/SuspendResumeLock.java
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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources.jar/com/zaxxer/hikari/util/SuspendResumeLock.java
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* /opt/cola/permits/1221016666_1635406618.62/0/nimbus-jose-jwt-8-23-sources-jar/com/nimbusds/jose/crypto/impl/ECDH.java
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  jar/com/nimbusds/jose/proc/JOSEObjectTypeVerifier.java
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  jar/com/nimbusds/jose/crypto/impl/ECDHCryptoProvider.java

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  jar/com/nimbusds/jose/crypto/factories/DefaultJWSSignerFactory.java
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## Cryptography

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* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/org/springframework/cloud/aws/mail/config/annotation/EnableStackConfiguration.java
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* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/org/springframework/cloud/aws/context/config/xml/spring-cloud-aws-context-1.2.xsd
* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/org/springframework/cloud/aws/context/xml/ContextRegionBeanDefinitionParser.java
* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/org/springframework/cloud/aws/cache/ElastiCacheFactoryBean.java
* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/org/springframework/cloud/aws/cache/memcached/SimpleSpringMemcached.java
* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/org/springframework/cloud/aws/cache/memcached/SimpleSpringMemcached.java
* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/org/springframework/cloud/aws/context/config/annotation/CacheClusterConfig.java
* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/org/springframework/cloud/aws/context/config/xml/spring-cloud-aws-context-1.0.xsd
* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/org/springframework/cloud/aws/context/config/xml/spring-cloud-aws-context-1.xsd
* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/org/springframework/cloud/aws/context/config/annotation/ConditionalOnClass.java
* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/org/springframework/cloud/aws/context/config/xml/ContextResourceLoaderBeanDefinitionParser.java
* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/org/springframework/cloud/aws/context/config/annotation/EnableContextCredentials.java
* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/org/springframework/cloud/aws/mail/config/annotation/EnableStackConfiguration.java
* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/org/springframework/cloud/aws/mail/config/xml/spring-cloud-aws-mail-1.0.xsd
* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/org/springframework/cloud/aws/mail/config/xml/spring-cloud-aws-mail-1.xsd
* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/org/springframework/cloud/aws/mail/config/xml/spring-cloud-aws-mail-1.2.xsd

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http://www.springframework.org/schema/cloud/aws/context/spring-cloud-aws-context-1.2.xsd=org/springframework/cloud/aws/context/config/xml/spring-cloud-aws-context-1.2.xsd
http://www.springframework.org/schema/cloud/aws/cache/spring-cloud-aws-cache-1.0.xsd=org/springframework/cloud/aws/cache/config/xml/spring-cloud-aws-cache-1.0.xsd
http://www.springframework.org/schema/cloud/aws/cache/spring-cloud-aws-cache-1.2.xsd=org/springframework/cloud/aws/cache/config/xml/spring-cloud-aws-cache-1.2.xsd
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http://www.springframework.org/schema/cloud/aws/mail/spring-cloud-aws-mail-1.2.xsd=org/springframework/cloud/aws/mail/config/xml/spring-cloud-aws-mail-1.2.xsd
http://www.springframework.org/schema/cloud/aws/mail/spring-cloud-aws-mail.xsd=org/springframework/cloud/aws/mail/config/xml/spring-cloud-aws-mail.xsd

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* /opt/cola/permits/1230781686_1637569886.92/0/spring-cloud-aws-context-2-2-6-release-sources-jar/META-INF/spring.schemas

## 1.232 jackson-module-scala 2.13.2

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1.234 isorelax 20090621

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 * @(#)Id: IgnoredSchema.java,v 1.5 2003/05/30 23:46:32 kkawa Exp $
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  jar/org/iso_relax/dispatcher/impl/DispatcherImpl.java

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jar/org/apache/commons/logging/package.html
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jar/org/codehaus/commons/compiler/java9/java/lang/module/ModuleReference.java
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jar/org/codehaus/commons/compiler/java9/java/lang/module/ModuleReader.java
* /opt/cola/permits/1324541664_1652168027.1176972/0/commons-compiler-3-1-7-sources-
jar/org/codehaus/commons/compiler/java8/java/util/function/Consumer.java
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jar/org/codehaus/commons/compiler/java8/java/util/stream/Stream.java
* /opt/cola/permits/1324541664_1652168027.1176972/0/commons-compiler-3-1-7-sources-
jar/org/codehaus/commons/compiler/java8/java/util/Optional.java
* /opt/cola/permits/1324541664_1652168027.1176972/0/commons-compiler-3-1-7-sources-
jar/org/codehaus/commons/compiler/util/Disassembler.java
* /opt/cola/permits/1324541664_1652168027.1176972/0/commons-compiler-3-1-7-sources-
jar/org/codehaus/commons/compiler/util/package-info.java
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  jar/org/codehaus/commons/compiler/util/resource/package-info.java
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* /opt/cola/permits/1324541664_1652168027.1176972/0/commons-compiler-3-1-7-sources-
  jar/org/codehaus/commons/compiler/java8/java/util/stream/package-info.java
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  jar/org/codehaus/commons/compiler/util/iterator/Iterables.java
* /opt/cola/permits/1324541664_1652168027.1176972/0/commons-compiler-3-1-7-sources-
  jar/org/codehaus/commons/compiler/util/reflect/Proxies.java
* /opt/cola/permits/1324541664_1652168027.1176972/0/commons-compiler-3-1-7-sources-
  jar/org/codehaus/commons/compiler/util/StringUtil.java
* /opt/cola/permits/1324541664_1652168027.1176972/0/commons-compiler-3-1-7-sources-
  jar/org/codehaus/commons/compiler/util/resource/ListableResourceFinder.java
* /opt/cola/permits/1324541664_1652168027.1176972/0/commons-compiler-3-1-7-sources-
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* /opt/cola/permits/1324541664_1652168027.1176972/0/commons-compiler-3-1-7-sources-
  jar/org/codehaus/commons/compiler/util/Predicate.java
* /opt/cola/permits/1324541664_1652168027.1176972/0/commons-compiler-3-1-7-sources-
  jar/org/codehaus/commons/compiler/util/reflect/Classes.java
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### 1.247 hdrhistogram 2.1.12

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Manifest-Version: 1.0
Bnd-LastModified: 1575980548657
Build-Jdk: 1.8.0_232
Built-By: gil
Bundle-Description: HdrHistogram supports the recording and analyzing sampled data value counts across a configurable integer value range with configurable value precision within the range. Value precision is expressed as the number of significant digits in the value recording, and provides control over value quantization behavior across the value range and the subsequent value resolution at any given level.
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Bundle-ManifestVersion: 2
Bundle-Name: HdrHistogram
Bundle-SymbolicName: org.hdrhistogram.HdrHistogram
Bundle-Version: 2.1.12
Created-By: Apache Maven Bundle Plugin
Export-Package: org.HdrHistogram;version="2.1.12",org.HdrHistogram.packagedarray;version="2.1.12"
Implementation-Title: HdrHistogram
Implementation-Vendor-Id: org.hdrhistogram
Implementation-Version: 2.1.12
Require-Capability: osgi.ee;filter="(&osgi.ee=JavaSE)(version=1.7))"
Specification-Title: hdrHistogram
Specification-Version: 2.1.12
Tool: Bnd-2.3.0.201405100607

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   jar/com/amazonaws/services/sqs/MessageMD5ChecksumHandler.java
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Version: 1.2

Status: Maintenance Release

Specification Lead: Oracle America, Inc. ("Specification Lead")

Release: July 2017

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* /opt/cola/permits/1255985093_1642628373.13/0/spring-cloud-commons-3-1-0-sources-
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* /opt/cola/permits/1255985093_1642628373.13/0/spring-cloud-commons-3-1-0-sources-
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* /opt/cola/permits/1255985093_1642628373.13/0/spring-cloud-commons-3-1-0-sources.jar/org/springframework/cloud/client/loadbalancer/RetryLoadBalancerInterceptor.java

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* /opt/cola/permits/1255985093_1642628373.13/0/spring-cloud-commons-3-1-0-sources.jar/org/springframework/cloud/client/loadbalancer/reactive/RetryableLoadBalancerExchangeFilterFunction.java

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* /opt/cola/permits/1255985093_1642628373.13/0/spring-cloud-commons-3-1-0-sources.jar/org/springframework/cloud/client/circuitbreaker/ReactiveCircuitBreaker.java
* /opt/cola/permits/1255985093_1642628373.13/0/spring-cloud-commons-3-1-0-sources.jar/org/springframework/cloud/client/circuitbreaker/Customizer.java
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* /opt/cola/permits/1255985093_1642628373.13/0/spring-cloud-commons-3-1-0-sources.jar/org/springframework/cloud/client/circuitbreaker/AbstractCircuitBreakerFactory.java
* /opt/cola/permits/1255985093_1642628373.13/0/spring-cloud-commons-3-1-0-sources.jar/org/springframework/cloud/client/circuitbreaker/CircuitBreaker.java
* /opt/cola/permits/1255985093_1642628373.13/0/spring-cloud-commons-3-1-0-sources.jar/org/springframework/cloud/client/circuitbreaker/CircuitBreakerFactory.java
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# 1.255 micrometer-registry-influx 1.8.5

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple2,
    or consider a pattern matching anonymous function: ` case (a, b) => ... `
val x: ((Int, Int) => Int) = (((a, b)) => a)
  ^

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple2,
    or consider a pattern matching anonymous function: ` case (param1, param2) => ... `
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)
  ^

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple3,
    or consider a pattern matching anonymous function: ` case (param1, ..., param3) => ... `
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
  ^

three errors found
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* /opt/cola/permits/1316669210_1651029549.79/0/netty-resolver-4-1-76-final-sources-jar/io/netty/resolver/NameResolver.java
* /opt/cola/permits/1316669210_1651029549.79/0/netty-resolver-4-1-76-final-sources-jar/io/netty/resolver/package-info.java
* /opt/cola/permits/1316669210_1651029549.79/0/netty-resolver-4-1-76-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/cola/permits/1316669210_1651029549.79/0/netty-resolver-4-1-76-final-sources-jar/io/netty/resolver/NoopAddressResolver.java
* /opt/cola/permits/1316669210_1651029549.79/0/netty-resolver-4-1-76-final-sources-jar/io/netty/resolver/AddressResolverGroup.java

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* /opt/cola/permits/1316669210_1651029549.79/0/netty-resolver-4-1-76-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java
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* /opt/cola/permits/1316669210_1651029549.79/0/netty-resolver-4-1-76-final-sources-jar/io/netty/resolver/InetNameResolver.java

1.269 jandex 2.4.2.Final

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* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/DotName.java
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* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/RecordComponentInfo.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/RecordComponentInternal.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/RecordComponentInfoGenerator.java
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* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/VoidType.java
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* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/FieldInfoGenerator.java
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1.270 jackson-databind 2.13.2.1

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The initial code for shuffling an array (originally in class "org.apache.commons.math3.random.RandomDataGenerator", now replaced by a method in class "org.apache.commons.math3.util.MathArrays") was inspired from the algorithm description provided in "Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999). The textbook (containing a proof that the shuffle is uniformly random) is available here:
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1.284 spring-cloud-consul-config 3.1.0

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* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-jar/org/springframework/security/jwt/crypto/sign/InvalidSignatureException.java
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-jar/org/springframework/security/jwt/CodecMetadata.java
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-jar/org/springframework/security/jwt/crypto/sign/SignatureVerifier.java

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 * Base64 encoder which is a reduced version of Robert Harder's public domain implementation (version 2.3.7).
 * See <a href="http://iharder.net/base64">http://iharder.net/base64</a> for more information.
 *
 * @author Luke Taylor
 */

Found in path(s):
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-jar/org/springframework/security/jwt/codec/Base64Codec.java

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  * /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-jar/org/springframework/security/jwt/crypto/sign/EllipticCurveSignatureHelper.java

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