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Text Part Number: 78EE117C99-124869513

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Initial authors:

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2001-12-12

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-- activemq-web

=====
== For the behaviour.js library ==
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--activemq-web-demo
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== For the style.css library           ==
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--activemq-web-console

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```
=====  
== For the JDom library                               ==  
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/*--
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$Id$
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```
=====
== For the style.css library           ==
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=====
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-- activemq-xmpp

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-- activemq-web

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--activemq-web-console

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== For the standardista-table-sorting.js library

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== For the css.js library

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== For the style.css library           ==
== For the common.js library         ==
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=====  
== For the backport-util-concurrent library          ==  
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-- activemq-web

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== For the behaviour.js library           ==
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--activemq-web-demo

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=====
== For the scriptaculous.js library           ==
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== For the style.css library                 ==
== For the common.js library                ==
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--activemq-web-console

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=====
== For the style.css library ==
== For the common.js library ==
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1.4 ActiveMQ Protocol Buffers

Implementation and Compiler 1.1

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1.5 activemq-broker 5.13.3

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
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- web-app_3_0.xsd
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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd

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For the following XML Schemas for Java EE Deployment Descriptors:

- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd

- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd

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1.15 ASM library repackaged as OSGi bundle

2.3.0-b05

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1.16 aspectjrt 1.8.5

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1.17 aspectjweaver 1.8.9

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1.24 Camel :: Spring 2.15.3

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1.26 camel-exec 2.15.3

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Go support for Protocol Buffers - Google's data interchange format

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Support for streaming Protocol Buffer messages for the Go language (golang).

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1.70 geronimo-j2ee-management_1.1_spec

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1.72 groovy 2.4.5

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org.codehaus.groovy.jsr223.GroovyScriptEngineFactory
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```
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org.codehaus.groovy.tools.shell.completion.FileNameCompleter

was derived from JLine 2.12, and the following patch:

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1.82 hazelcast-spring 3.6.2

1.83 hessian 4.0.7

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1.86 hibernate-entitymanager 4.3.7.Final

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system,

rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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1.99 hornetq-jms-client 2.2.7.Final

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1.100 hornetq-journal 2.3.9.Final

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*/

```
package org.hornetq.core.journal.impl.dataformat;
```

```
import org.hornetq.api.core.HornetQBuffer;  
import org.hornetq.core.journal.EncodingSupport;  
import org.hornetq.core.journal.impl.JournalImpl;
```

```
/**
```

```
 * <p/>
```

```
 * A transaction record (Commit or Prepare), will hold the number of elements the transaction has in  
 * the current file.
```

```
 * <p/>
```

```
 * While loading the { @link JournalFile }, the number of operations found is matched against this  
 * number. If for any reason there are missing operations, the transaction will be ignored.
```

```
 * <p/>
```

```
 * We can't just use a global counter as reclaiming could delete files after the transaction was  
 * successfully committed. That also means not having a whole file on journal-reload doesn't mean we  
 * have to invalidate the transaction
```

```
 * <p/>
```

```
 * The commit operation itself is not included in this total.
```

```
 *
```

```
 * @author <mailto:clebert.suonic@jboss.org">Clebert Suonic</a>
```

```
*/
```

```
public class JournalCompleteRecordTX extends JournalInternalRecord
```

```
{
```

```
    public enum TX_RECORD_TYPE
```

```
    {
```

```
        COMMIT, PREPARE;
```

```
    }
```

```
    private final TX_RECORD_TYPE txRecordType;
```

```
    private final long txID;
```

```
    private final EncodingSupport transactionData;
```

```
    private int numberOfRecords;
```

```
    public JournalCompleteRecordTX(final TX_RECORD_TYPE isCommit, final long txID, final EncodingSupport  
transactionData)
```

```
    {
```

```
        this.txRecordType = isCommit;
```

```
        this.txID = txID;
```



```

    this.transactionData = transactionData;
}

@Override
public void encode(final HornetQBuffer buffer)
{
    if (txRecordType == TX_RECORD_TYPE.COMMIT)
    {
        buffer.writeByte(JournalImpl.COMMIT_RECORD);
    }
    else
    {
        buffer.writeByte(JournalImpl.PREPARE_RECORD);
    }

    buffer.writeInt(fileID);

    buffer.writeByte(compactCount);

    buffer.writeLong(txID);

    buffer.writeInt(numberOfRecords);

    if (transactionData != null)
    {
        buffer.writeInt(transactionData.getEncodeSize());
    }

    if (transactionData != null)
    {
        transactionData.encode(buffer);
    }

    buffer.writeInt(getEncodeSize());
}

@Override
public void setNumberOfRecords(final int records)
{
    numberOfRecords = records;
}

@Override
public int getNumberOfRecords()
{
    return numberOfRecords;
}

```

```

@Override
public int getEncodeSize()
{
    if (txRecordType == TX_RECORD_TYPE.COMMIT)
    {
        return JournalImpl.SIZE_COMPLETE_TRANSACTION_RECORD + 1;
    }
    else
    {
        return JournalImpl.SIZE_PREPARE_RECORD + (transactionData != null ? transactionData.getEncodeSize() :
0) + 1;
    }
}
}
/*
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 */

package org.hornetq.core.journal.impl;

import java.util.concurrent.CountDownLatch;
import java.util.concurrent.TimeUnit;

import org.hornetq.api.core.HornetQException;
import org.hornetq.api.core.HornetQExceptionType;
import org.hornetq.journal.HornetQJournalLogger;

/**
 * A SimpleWaitIOCallback
 *
 * @author <a href="mailto:clebert.suonic@jboss.org">Clebert Suonic</a>
 *
 */
public final class SimpleWaitIOCallback extends SyncIOCompletion
{
    private final CountDownLatch latch = new CountDownLatch(1);

    private volatile String errorMessage;

```

```

private volatile int errorCode = 0;

@Override
public String toString()
{
    return SimpleWaitIOCallback.class.getName();
}

public void done()
{
    latch.countDown();
}

public void onError(final int errorCode1, final String errorMessage1)
{
    this.errorCode = errorCode1;

    this.errorMessage = errorMessage1;

    HornetQJournalLogger.LOGGER.errorOnIOCallback(errorMessage1);

    latch.countDown();
}

@Override
public void waitCompletion() throws InterruptedException, HornetQException
{
    while (true)
    {
        if (latch.await(2, TimeUnit.SECONDS))
            break;
    }

    if (errorMessage != null)
    {
        throw HornetQExceptionType.createException(errorCode, errorMessage);
    }

    return;
}

public boolean waitCompletion(final long timeout) throws InterruptedException, HornetQException
{
    boolean retValue = latch.await(timeout, TimeUnit.MILLISECONDS);

    if (errorMessage != null)
    {

```

```

        throw HornetQExceptionType.createException(errorCode, errorMessage);
    }

    return retValue;
}

@Override
public void storeLineUp()
{
}
}
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 */

package org.hornetq.core.journal.impl;

import org.hornetq.core.journal.IOCompletion;

/**
 * Internal class used to manage explicit syncs on the Journal through callbacks.
 *
 * @author <mailto:clebert.suonic@jboss.org>Clebert Suonic</a>
 *
 */
public abstract class SyncIOCompletion implements IOCompletion
{

    // Constants -----

    // Attributes -----

    // Static -----

    // Constructors -----

    // Public -----

```

```

public abstract void waitCompletion() throws Exception;

// Package protected -----

// Protected -----

// Private -----

// Inner classes -----

}
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 */

package org.hornetq.core.journal.impl;

import java.io.Serializable;
import java.nio.ByteBuffer;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Comparator;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
import java.util.LinkedHashMap;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
import java.util.concurrent.ThreadFactory;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicBoolean;
import java.util.concurrent.atomic.AtomicInteger;

```

```

import java.util.concurrent.atomic.AtomicLong;
import java.util.concurrent.locks.ReadWriteLock;
import java.util.concurrent.locks.ReentrantLock;
import java.util.concurrent.locks.ReentrantReadWriteLock;

import org.hornetq.api.core.HornetQBuffer;
import org.hornetq.api.core.HornetQBuffers;
import org.hornetq.api.core.Pair;
import org.hornetq.core.journal.EncodingSupport;
import org.hornetq.core.journal.IOAsyncTask;
import org.hornetq.core.journal.IOCompletion;
import org.hornetq.core.journal.JournalLoadInformation;
import org.hornetq.core.journal.LoaderCallback;
import org.hornetq.core.journal.PreparedTransactionInfo;
import org.hornetq.core.journal.RecordInfo;
import org.hornetq.core.journal.SequentialFile;
import org.hornetq.core.journal.SequentialFileFactory;
import org.hornetq.core.journal.TestableJournal;
import org.hornetq.core.journal.TransactionFailureCallback;
import org.hornetq.core.journal.impl.dataformat.ByteArrayEncoding;
import org.hornetq.core.journal.impl.dataformat.JournalAddRecord;
import org.hornetq.core.journal.impl.dataformat.JournalAddRecordTX;
import org.hornetq.core.journal.impl.dataformat.JournalCompleteRecordTX;
import org.hornetq.core.journal.impl.dataformat.JournalCompleteRecordTX.TX_RECORD_TYPE;
import org.hornetq.core.journal.impl.dataformat.JournalDeleteRecord;
import org.hornetq.core.journal.impl.dataformat.JournalDeleteRecordTX;
import org.hornetq.core.journal.impl.dataformat.JournalInternalRecord;
import org.hornetq.core.journal.impl.dataformat.JournalRollbackRecordTX;
import org.hornetq.journal.HornetQJournalBundle;
import org.hornetq.journal.HornetQJournalLogger;
import org.hornetq.utils.ConcurrentHashSet;
import org.hornetq.utils.DataConstants;

/**
 * <p>A circular log implementation.</p>
 * <p/>
 * <p>Look at { @link JournalImpl#load(LoaderCallback)} for the file layout
 *
 * @author <a href="mailto:tim.fox@jboss.com">Tim Fox</a>
 * @author <a href="mailto:clebert.suonic@jboss.com">Clebert Suonic</a>
 */
public class JournalImpl extends JournalBase implements TestableJournal, JournalRecordProvider
{

    // Constants -----

    public static final int FORMAT_VERSION = 2;

```

```

private static final int[] COMPATIBLE_VERSIONS = new int[]{1};

// Static -----
private static final boolean trace = HornetQJournalLogger.LOGGER.isTraceEnabled();

// This is useful at debug time...
// if you set it to true, all the appends, deletes, rollbacks, commits, etc.. are sent to System.out
private static final boolean TRACE_RECORDS = trace;

// This method exists just to make debug easier.
// I could replace log.trace by log.info temporarily while I was debugging
// Journal
private static void trace(final String message)
{
    HornetQJournalLogger.LOGGER.trace(message);
}

private static void traceRecord(final String message)
{
    HornetQJournalLogger.LOGGER.trace(message);
}

// The sizes of primitive types

public static final int MIN_FILE_SIZE = 1024;

// FileID(Long) + JournalVersion + UserVersion
public static final int SIZE_HEADER = DataConstants.SIZE_LONG + DataConstants.SIZE_INT +
DataConstants.SIZE_INT;

private static final int BASIC_SIZE = DataConstants.SIZE_BYTE + DataConstants.SIZE_INT +
DataConstants.SIZE_INT;

public static final int SIZE_ADD_RECORD = JournalImpl.BASIC_SIZE + DataConstants.SIZE_LONG +
    DataConstants.SIZE_BYTE +
    DataConstants.SIZE_INT /* + record.length */;

// Record markers - they must be all unique

public static final byte ADD_RECORD = 11;

public static final byte UPDATE_RECORD = 12;

public static final int SIZE_ADD_RECORD_TX = JournalImpl.BASIC_SIZE + DataConstants.SIZE_LONG +
    DataConstants.SIZE_BYTE +
    DataConstants.SIZE_LONG +
    DataConstants.SIZE_INT /* + record.length */;

```

```

public static final byte ADD_RECORD_TX = 13;

public static final byte UPDATE_RECORD_TX = 14;

public static final int SIZE_DELETE_RECORD_TX = JournalImpl.BASIC_SIZE + DataConstants.SIZE_LONG
+
  DataConstants.SIZE_LONG +
  DataConstants.SIZE_INT /* + record.length */;

public static final byte DELETE_RECORD_TX = 15;

public static final int SIZE_DELETE_RECORD = JournalImpl.BASIC_SIZE + DataConstants.SIZE_LONG;

public static final byte DELETE_RECORD = 16;

public static final int SIZE_COMPLETE_TRANSACTION_RECORD = JournalImpl.BASIC_SIZE +
DataConstants.SIZE_LONG +
  DataConstants.SIZE_INT;

public static final int SIZE_PREPARE_RECORD = JournalImpl.SIZE_COMPLETE_TRANSACTION_RECORD
+ DataConstants.SIZE_INT;

public static final byte PREPARE_RECORD = 17;

public static final int SIZE_COMMIT_RECORD = JournalImpl.SIZE_COMPLETE_TRANSACTION_RECORD;

public static final byte COMMIT_RECORD = 18;

public static final int SIZE_ROLLBACK_RECORD = JournalImpl.BASIC_SIZE + DataConstants.SIZE_LONG;

public static final byte ROLLBACK_RECORD = 19;

protected static final byte FILL_CHARACTER = (byte)'J';

// Attributes -----

private volatile boolean autoReclaim = true;

private final int userVersion;

private final int minFiles;

private final float compactPercentage;

private final int compactMinFiles;

private final SequentialFileFactory fileFactory;

```



```

private final JournalFilesRepository filesRepository;

// Compacting may replace this structure
private final ConcurrentMap<Long, JournalRecord> records = new ConcurrentHashMap<Long, JournalRecord>();

// Compacting may replace this structure
private final ConcurrentMap<Long, JournalTransaction> transactions = new ConcurrentHashMap<Long,
JournalTransaction>();

// This will be set only while the JournalCompactor is being executed
private volatile JournalCompactor compactor;

private final AtomicBoolean compactorRunning = new AtomicBoolean();

private ExecutorService filesExecutor = null;

private ExecutorService compactorExecutor = null;

private ConcurrentHashMap<CountDownLatch> latches = new ConcurrentHashMap<CountDownLatch>();

// Lock used during the append of records
// This lock doesn't represent a global lock.
// After a record is appended, the usedFile can't be changed until the positives and negatives are updated
private final ReentrantLock lockAppend = new ReentrantLock();

/**
 * We don't lock the journal during the whole compacting operation. During compacting we only
 * lock it (i) when gathering the initial structure, and (ii) when replicating the structures
 * after finished compacting.
 * <p/>
 * However we need to lock it while taking and updating snapshots
 */
private final ReadWriteLock journalLock = new ReentrantReadWriteLock();
private final ReadWriteLock compactorLock = new ReentrantReadWriteLock();

private volatile JournalFile currentFile;

private volatile JournalState state = JournalState.STOPPED;

private final Reclaimer reclaimer = new Reclaimer();

// Constructors -----

public JournalImpl(final int fileSize,
                  final int minFiles,
                  final int compactMinFiles,
                  final int compactPercentage,
                  final SequentialFileFactory fileFactory,

```

```

        final String filePrefix,
        final String fileExtension,
        final int maxAIO)
    {
        this(fileSize, minFiles, compactMinFiles, compactPercentage, fileFactory, filePrefix, fileExtension, maxAIO, 0);
    }

```

```

public JournalImpl(final int fileSize,
    final int minFiles,
    final int compactMinFiles,
    final int compactPercentage,
    final SequentialFileFactory fileFactory,
    final String filePrefix,
    final String fileExtension,
    final int maxAIO, final int userVersion)
    {
        super(fileFactory.isSupportsCallbacks(), fileSize);
        if (fileSize % fileFactory.getAlignment() != 0)
        {
            throw new IllegalArgumentException("Invalid journal-file-size " + fileSize + ", It should be multiple of " +
                fileFactory.getAlignment());
        }
        if (minFiles < 2)
        {
            throw new IllegalArgumentException("minFiles cannot be less than 2");
        }
        if (compactPercentage < 0 || compactPercentage > 100)
        {
            throw new IllegalArgumentException("Compact Percentage out of range");
        }

        if (compactPercentage == 0)
        {
            this.compactPercentage = 0;
        }
        else
        {
            this.compactPercentage = compactPercentage / 100f;
        }

        this.compactMinFiles = compactMinFiles;
        this.minFiles = minFiles;

        this.fileFactory = fileFactory;

        filesRepository = new JournalFilesRepository(fileFactory,
            this,

```

```

        filePrefix,
        fileExtension,
        userVersion,
        maxAIO,
        fileSize,
        minFiles);

    this.userVersion = userVersion;
}

@Override
public String toString()
{
    return "JournalImpl(state=" + state + ", currentFile=[" + currentFile + "], hash=" + super.toString() + ")";
}

public void runDirectJournalBlast() throws Exception
{
    final int numIts = 100000000;

    HornetQJournalLogger.LOGGER.runningJournalBlast(numIts);

    final CountDownLatch latch = new CountDownLatch(numIts * 2);

    class MyIOAsyncTask implements IOCompletion
    {
        public void done()
        {
            latch.countDown();
        }

        public void onError(final int errorCode, final String errorMessage)
        {
        }

        public void storeLineUp()
        {
        }
    }

    final MyIOAsyncTask task = new MyIOAsyncTask();

    final int recordSize = 1024;

    final byte[] bytes = new byte[recordSize];

    class MyRecord implements EncodingSupport

```

```

{

    public void decode(final HornetQBuffer buffer)
    {
    }

    public void encode(final HornetQBuffer buffer)
    {
        buffer.writeBytes(bytes);
    }

    public int getEncodeSize()
    {
        return recordSize;
    }

}

MyRecord record = new MyRecord();

for (int i = 0; i < numIts; i++)
{
    appendAddRecord(i, (byte)1, record, true, task);
    appendDeleteRecord(i, true, task);
}

latch.await();
}

public Map<Long, JournalRecord> getRecords()
{
    return records;
}

public JournalFile getCurrentFile()
{
    return currentFile;
}

public JournalCompactor getCompactor()
{
    return compactor;
}

/**
 * this method is used internally only however tools may use it to maintenance.
 * It won't be part of the interface as the tools should be specific to the implementation
 */

```

```

public List<JournalFile> orderFiles() throws Exception
{
    List<String> fileNames = fileFactory.listFiles(filesRepository.getFileExtension());

    List<JournalFile> orderedFiles = new ArrayList<JournalFile>(fileNames.size());

    for (String fileName : fileNames)
    {
        SequentialFile file = fileFactory.createSequentialFile(fileName, filesRepository.getMaxAIO());

        file.open(1, false);

        try
        {

            JournalFileImpl jrnFile = readFileHeader(file);

            orderedFiles.add(jrnFile);
        }
        finally
        {
            file.close();
        }
    }

    // Now order them by ordering id - we can't use the file name for ordering
    // since we can re-use dataFiles

    Collections.sort(orderedFiles, new JournalFileComparator());

    return orderedFiles;
}

/**
 * this method is used internally only however tools may use it to maintenance.
 */
public static int readJournalFile(final SequentialFileFactory fileFactory,
                                final JournalFile file,
                                final JournalReaderCallback reader) throws Exception
{
    file.getFile().open(1, false);
    ByteBuffer wholeFileBuffer = null;
    try
    {
        final int filesize = (int)file.getFile().size();

        wholeFileBuffer = fileFactory.newBuffer(filesize);
    }
}

```

```

final int journalFileSize = file.getFile().read(wholeFileBuffer);

if (journalFileSize != filesize)
{
    throw new RuntimeException("Invalid read! The system couldn't read the entire file into memory");
}

// First long is the ordering timestamp, we just jump its position
wholeFileBuffer.position(JournalImpl.SIZE_HEADER);

int lastDataPos = JournalImpl.SIZE_HEADER;

while (wholeFileBuffer.hasRemaining())
{
    final int pos = wholeFileBuffer.position();

    byte recordType = wholeFileBuffer.get();

    if (recordType < JournalImpl.ADD_RECORD || recordType > JournalImpl.ROLLBACK_RECORD)
    {
        // I - We scan for any valid record on the file. If a hole
        // happened on the middle of the file we keep looking until all
        // the possibilities are gone
        continue;
    }

    if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), DataConstants.SIZE_INT))
    {
        reader.markAsDataFile(file);

        wholeFileBuffer.position(pos + 1);
        // II - Ignore this record, lets keep looking
        continue;
    }

    // III - Every record has the file-id.
    // This is what supports us from not re-filling the whole file
    int readFileId = wholeFileBuffer.getInt();

    // This record is from a previous file-usage. The file was
    // reused and we need to ignore this record
    if (readFileId != file.getRecordID())
    {
        wholeFileBuffer.position(pos + 1);
        continue;
    }

    short compactCount = 0;

```

```

if (file.getJournalVersion() >= 2)
{
    if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), DataConstants.SIZE_BYTE))
    {
        reader.markAsDataFile(file);

        wholeFileBuffer.position(pos + 1);
        continue;
    }

    compactCount = wholeFileBuffer.get();
}

long transactionID = 0;

if (JournalImpl.isTransaction(recordType))
{
    if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), DataConstants.SIZE_LONG))
    {
        wholeFileBuffer.position(pos + 1);
        reader.markAsDataFile(file);
        continue;
    }

    transactionID = wholeFileBuffer.getLong();
}

long recordID = 0;

// If prepare or commit
if (!JournalImpl.isCompleteTransaction(recordType))
{
    if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), DataConstants.SIZE_LONG))
    {
        wholeFileBuffer.position(pos + 1);
        reader.markAsDataFile(file);
        continue;
    }

    recordID = wholeFileBuffer.getLong();
}

// We use the size of the record to validate the health of the
// record.
// (V) We verify the size of the record

// The variable record portion used on Updates and Appends

```

```

int variableSize = 0;

// Used to hold extra data on transaction prepares
int preparedTransactionExtraDataSize = 0;

byte userRecordType = 0;

byte[] record = null;

if (JournalImpl.isContainsBody(recordType))
{
    if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), DataConstants.SIZE_INT))
    {
        wholeFileBuffer.position(pos + 1);
        reader.markAsDataFile(file);
        continue;
    }

    variableSize = wholeFileBuffer.getInt();

    if (recordType != JournalImpl.DELETE_RECORD_TX)
    {
        if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), 1))
        {
            wholeFileBuffer.position(pos + 1);
            continue;
        }

        userRecordType = wholeFileBuffer.get();
    }

    if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), variableSize))
    {
        wholeFileBuffer.position(pos + 1);
        continue;
    }

    record = new byte[variableSize];

    wholeFileBuffer.get(record);
}

// Case this is a transaction, this will contain the number of pendingTransactions on a transaction, at the
// currentFile
int transactionCheckNumberOfRecords = 0;

if (recordType == JournalImpl.PREPARE_RECORD || recordType == JournalImpl.COMMIT_RECORD)
{

```



```

if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), DataConstants.SIZE_INT))
{
    wholeFileBuffer.position(pos + 1);
    continue;
}

transactionCheckNumberOfRecords = wholeFileBuffer.getInt();

if (recordType == JournalImpl.PREPARE_RECORD)
{
    if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), DataConstants.SIZE_INT))
    {
        wholeFileBuffer.position(pos + 1);
        continue;
    }
    // Add the variable size required for preparedTransactions
    preparedTransactionExtraDataSize = wholeFileBuffer.getInt();
}
variableSize = 0;
}

int recordSize = JournalImpl.getRecordSize(recordType, file.getJournalVersion());

// VI - this is completing V, We will validate the size at the end
// of the record,
// But we avoid buffer overflows by damaged data
if (JournalImpl.isInvalidSize(journalFileSize, pos, recordSize + variableSize +
    preparedTransactionExtraDataSize))
{
    // Avoid a buffer overflow caused by damaged data... continue
    // scanning for more pendingTransactions...
    JournalImpl.trace("Record at position " + pos +
        " recordType = " +
        recordType +
        " file:" +
        file.getFile().getFileName() +
        " recordSize: " +
        recordSize +
        " variableSize: " +
        variableSize +
        " preparedTransactionExtraDataSize: " +
        preparedTransactionExtraDataSize +
        " is corrupted and it is being ignored (II)");
    // If a file has damaged pendingTransactions, we make it a dataFile, and the
    // next reclaiming will fix it
    reader.markAsDataFile(file);
    wholeFileBuffer.position(pos + 1);
}

```

```

        continue;
    }

    int oldPos = wholeFileBuffer.position();

    wholeFileBuffer.position(pos + variableSize +
        recordSize +
        preparedTransactionExtraDataSize -
        DataConstants.SIZE_INT);

    int checkSize = wholeFileBuffer.getInt();

    // VII - The checkSize at the end has to match with the size
    // informed at the beginning.
    // This is like testing a hash for the record. (We could replace the
    // checkSize by some sort of calculated hash)
    if (checkSize != variableSize + recordSize + preparedTransactionExtraDataSize)
    {
        JournalImpl.trace("Record at position " + pos +
            " recordType = " +
            recordType +
            " possible transactionID = " +
            transactionID +
            " possible recordID = " +
            recordID +
            " file:" +
            file.getFile().getFileName() +
            " is corrupted and it is being ignored (III)");

        // If a file has damaged pendingTransactions, we make it a dataFile, and the
        // next reclaiming will fix it
        reader.markAsDataFile(file);

        wholeFileBuffer.position(pos + DataConstants.SIZE_BYTE);

        continue;
    }

    wholeFileBuffer.position(oldPos);

    // At this point everything is checked. So we relax and just load
    // the data now.

    switch (recordType)
    {
        case ADD_RECORD:
        {
            reader.onReadAddRecord(new RecordInfo(recordID, userRecordType, record, false, compactCount));
        }
    }

```

```

        break;
    }

    case UPDATE_RECORD:
    {
        reader.onReadUpdateRecord(new RecordInfo(recordID, userRecordType, record, true, compactCount));
        break;
    }

    case DELETE_RECORD:
    {
        reader.onReadDeleteRecord(recordID);
        break;
    }

    case ADD_RECORD_TX:
    {
        reader.onReadAddRecordTX(transactionID, new RecordInfo(recordID,
                                                                userRecordType,
                                                                record,
                                                                false,
                                                                compactCount));

        break;
    }

    case UPDATE_RECORD_TX:
    {
        reader.onReadUpdateRecordTX(transactionID, new RecordInfo(recordID,
                                                                userRecordType,
                                                                record,
                                                                true,
                                                                compactCount));

        break;
    }

    case DELETE_RECORD_TX:
    {
        reader.onReadDeleteRecordTX(transactionID, new RecordInfo(recordID,
                                                                (byte)0,
                                                                record,
                                                                true,
                                                                compactCount));

        break;
    }

    case PREPARE_RECORD:
    {

```

```

byte[] extraData = new byte[preparedTransactionExtraDataSize];

wholeFileBuffer.get(extraData);

reader.onReadPrepareRecord(transactionID, extraData, transactionCheckNumberOfRecords);

    break;
}
case COMMIT_RECORD:
{

    reader.onReadCommitRecord(transactionID, transactionCheckNumberOfRecords);
    break;
}
case ROLLBACK_RECORD:
{
    reader.onReadRollbackRecord(transactionID);
    break;
}
default:
{
    throw new IllegalStateException("Journal " + file.getFile().getFileName() +
        " is corrupt, invalid record type " +
        recordType);
}
}

checkSize = wholeFileBuffer.getInt();

// This is a sanity check about the loading code itself.
// If this checkSize doesn't match, it means the reading method is
// not doing what it was supposed to do
if (checkSize != variableSize + recordSize + preparedTransactionExtraDataSize)
{
    throw new IllegalStateException("Internal error on loading file. Position doesn't match with checkSize, file
= " + file.getFile() +
        ", pos = " +
        pos);
}

lastDataPos = wholeFileBuffer.position();

}

return lastDataPos;
}
catch (Throwable e)
{

```

```

        HornetQJournalLogger.LOGGER.errorReadingFile(e);
        throw new Exception(e.getMessage(), e);
    }
    finally
    {
        if (wholeFileBuffer != null)
        {
            fileFactory.releaseBuffer(wholeFileBuffer);
        }

        try
        {
            file.getFile().close();
        }
        catch (Throwable ignored)
        {
        }
    }
}

// Journal implementation
// -----

@Override
public void appendAddRecord(final long id,
                            final byte recordType,
                            final EncodingSupport record,
                            final boolean sync,
                            final IOCompletion callback) throws Exception
{
    checkJournalIsLoaded();

    journalLock.readLock().lock();

    try
    {
        JournalInternalRecord addRecord = new JournalAddRecord(true, id, recordType, record);

        if (callback != null)
        {
            callback.storeLineUp();
        }

        lockAppend.lock();
        try
        {
            JournalFile usedFile = appendRecord(addRecord, false, sync, null, callback);

```

```

    if (JournalImpl.TRACE_RECORDS)
    {
        JournalImpl.traceRecord("appendAddRecord::id=" + id +
            ", userRecordType=" +
            recordType +
            ", usedFile = " +
            usedFile);
    }

    records.put(id, new JournalRecord(usedFile, addRecord.getEncodeSize()));
}
finally
{
    lockAppend.unlock();
}
}
finally
{
    journalLock.readLock().unlock();
}
}

@Override
public void appendUpdateRecord(final long id,
    final byte recordType,
    final EncodingSupport record,
    final boolean sync,
    final IOCompletion callback) throws Exception
{
    checkJournalsLoaded();

    journalLock.readLock().lock();

    try
    {
        JournalRecord jrnRecord = records.get(id);

        if (jrnRecord == null)
        {
            if (!(compactor != null && compactor.lookupRecord(id)))
            {
                throw new IllegalStateException("Cannot find add info " + id);
            }
        }

        JournalInternalRecord updateRecord = new JournalAddRecord(false, id, recordType, record);

        if (callback != null)

```

```

    {
        callback.storeLineUp();
    }

    lockAppend.lock();
    try
    {
        JournalFile usedFile = appendRecord(updateRecord, false, sync, null, callback);

        if (JournalImpl.TRACE_RECORDS)
        {
            JournalImpl.traceRecord("appendUpdateRecord::id=" + id +
                ", userRecordType=" +
                recordType +
                ", usedFile = " +
                usedFile);
        }

        // record== null here could only mean there is a compactor, and computing the delete should be done after
        // compacting is done
        if (jrnRecord == null)
        {
            compactor.addCommandUpdate(id, usedFile, updateRecord.getEncodeSize());
        }
        else
        {
            jrnRecord.addUpdateFile(usedFile, updateRecord.getEncodeSize());
        }
    }
    finally
    {
        lockAppend.unlock();
    }
}
finally
{
    journalLock.readLock().unlock();
}
}

```

```

@Override
public void appendDeleteRecord(final long id, final boolean sync, final IOCompletion callback) throws Exception
{
    checkJournalIsLoaded();

    journalLock.readLock().lock();
    try

```

```

{

JournalRecord record = null;

if (compactor == null)
{
    record = records.remove(id);

    if (record == null)
    {
        throw new IllegalStateException("Cannot find add info " + id);
    }
}
else
{
    if (!records.containsKey(id) && !compactor.lookupRecord(id))
    {
        throw new IllegalStateException("Cannot find add info " + id + " on compactor or current records");
    }
}

JournalInternalRecord deleteRecord = new JournalDeleteRecord(id);

if (callback != null)
{
    callback.storeLineUp();
}

lockAppend.lock();
try
{
    JournalFile usedFile = appendRecord(deleteRecord, false, sync, null, callback);

    if (JournalImpl.TRACE_RECORDS)
    {
        JournalImpl.traceRecord("appendDeleteRecord::id=" + id + ", usedFile = " + usedFile);
    }

    // record== null here could only mean there is a compactor, and computing the delete should be done after
    // compacting is done
    if (record == null)
    {
        compactor.addCommandDelete(id, usedFile);
    }
    else
    {
        record.delete(usedFile);
    }
}

```



```

    }
    finally
    {
        lockAppend.unlock();
    }
}
finally
{
    journalLock.readLock().unlock();
}
}

@Override
public void appendAddRecordTransactional(final long txID,
                                       final long id,
                                       final byte recordType,
                                       final EncodingSupport record) throws Exception
{
    checkJournalsLoaded();

    journalLock.readLock().lock();

    try
    {
        JournalInternalRecord addRecord = new JournalAddRecordTX(true, txID, id, recordType, record);

        JournalTransaction tx = getTransactionInfo(txID);

        lockAppend.lock();
        try
        {
            JournalFile usedFile = appendRecord(addRecord, false, false, tx, null);

            if (JournalImpl.TRACE_RECORDS)
            {
                JournalImpl.traceRecord("appendAddRecordTransactional:txID=" + txID +
                                       ",id=" +
                                       id +
                                       ", userRecordType=" +
                                       recordType +
                                       ", usedFile = " +
                                       usedFile);
            }

            tx.addPositive(usedFile, id, addRecord.getEncodeSize());
        }
        finally

```

```

        {
            lockAppend.unlock();
        }
    }
    finally
    {
        journalLock.readLock().unlock();
    }
}

private void checkJournalIsLoaded()
{
    if (state != JournalState.LOADED && state != JournalState.SYNCING)
    {
        throw new IllegalStateException("Journal must be in state=" + JournalState.LOADED + ", was [" + state +
"");
    }
}

private void setJournalState(JournalState newState)
{
    state = newState;
}

@Override
public void appendUpdateRecordTransactional(final long txID,
                                           final long id,
                                           final byte recordType,
                                           final EncodingSupport record) throws Exception
{
    checkJournalIsLoaded();

    journalLock.readLock().lock();

    try
    {
        JournalInternalRecord updateRecordTX = new JournalAddRecordTX(false, txID, id, recordType, record);

        JournalTransaction tx = getTransactionInfo(txID);

        lockAppend.lock();
        try
        {
            JournalFile usedFile = appendRecord(updateRecordTX, false, false, tx, null);

            if (JournalImpl.TRACE_RECORDS)
            {
                JournalImpl.traceRecord("appendUpdateRecordTransactional::txID=" + txID +

```

```

        ",id=" +
        id +
        ", userRecordType=" +
        recordType +
        ", usedFile = " +
        usedFile);
    }

    tx.addPositive(usedFile, id, updateRecordTX.getEncodeSize());
}
finally
{
    lockAppend.unlock();
}
}
finally
{
    journalLock.readLock().unlock();
}
}

```

@Override

public void appendDeleteRecordTransactional(final long txID, final long id, final EncodingSupport record) throws Exception

```

{
    checkJournalIsLoaded();

    journalLock.readLock().lock();

    try
    {
        JournalInternalRecord deleteRecordTX = new JournalDeleteRecordTX(txID, id, record);

        JournalTransaction tx = getTransactionInfo(txID);

        lockAppend.lock();
        try
        {
            JournalFile usedFile = appendRecord(deleteRecordTX, false, false, tx, null);

            if (JournalImpl.TRACE_RECORDS)
            {
                JournalImpl.traceRecord("appendDeleteRecordTransactional::txID=" + txID +
                    ", id=" +
                    id +
                    ", usedFile = " +
                    usedFile);
            }
        }
    }
}

```

```

    }

    tx.addNegative(usedFile, id);
}
finally
{
    lockAppend.unlock();
}
}
finally
{
    journalLock.readLock().unlock();
}
}

/**
 * <p>If the system crashed after a prepare was called, it should store information that is required to bring the
transaction
 * back to a state it could be committed. </p>
 * <p/>
 * <p> transactionData allows you to store any other supporting user-data related to the transaction</p>
 * <p/>
 * <p> This method also uses the same logic applied on { @link JournalImpl#appendCommitRecord(long,
boolean)}
 *
 * @param txID
 * @param transactionData extra user data for the prepare
 * @throws Exception
 */
@Override
public void appendPrepareRecord(final long txID,
                               final EncodingSupport transactionData,
                               final boolean sync,
                               final IOCompletion callback) throws Exception
{

    checkJournalIsLoaded();

    journalLock.readLock().lock();

    try
    {
        JournalTransaction tx = getTransactionInfo(txID);

        JournalInternalRecord prepareRecord =
            new JournalCompleteRecordTX(TX_RECORD_TYPE.PREPARE, txID, transactionData);

        if (callback != null)

```

```

    {
        callback.storeLineUp();
    }

    lockAppend.lock();
    try
    {
        JournalFile usedFile = appendRecord(prepareRecord, true, sync, tx, callback);

        if (JournalImpl.TRACE_RECORDS)
        {
            JournalImpl.traceRecord("appendPrepareRecord::txID=" + txID + ", usedFile = " + usedFile);
        }

        tx.prepare(usedFile);
    }
    finally
    {
        lockAppend.unlock();
    }

}
finally
{
    journalLock.readLock().unlock();
}
}

@Override
public void lineUpContext(IOCompletion callback)
{
    callback.storeLineUp();
}

/**
 * Regarding the number of operations in a given file see {@link JournalCompleteRecordTX}.
 */
@Override
public void appendCommitRecord(final long txID, final boolean sync, final IOCompletion callback, boolean
lineUpContext) throws Exception
{
    checkJournalIsLoaded();

    journalLock.readLock().lock();

    try
    {

```

```

JournalTransaction tx = transactions.remove(txID);

if (tx == null)
{
    throw new IllegalStateException("Cannot find tx with id " + txID);
}

JournalInternalRecord commitRecord = new JournalCompleteRecordTX(TX_RECORD_TYPE.COMMIT,
txID, null);

if (callback != null && lineUpContext)
{
    callback.storeLineUp();
}

lockAppend.lock();
try
{
    JournalFile usedFile = appendRecord(commitRecord, true, sync, tx, callback);

    if (JournalImpl.TRACE_RECORDS)
    {
        JournalImpl.traceRecord("appendCommitRecord::txID=" + txID + ", usedFile = " + usedFile);
    }

    tx.commit(usedFile);
}
finally
{
    lockAppend.unlock();
}

}
finally
{
    journalLock.readLock().unlock();
}
}

@Override
public void appendRollbackRecord(final long txID, final boolean sync, final IOCompletion callback) throws
Exception
{
    checkJournalIsLoaded();

    journalLock.readLock().lock();

    JournalTransaction tx = null;

```

```

try
{
    tx = transactions.remove(txID);

    if (tx == null)
    {
        throw new IllegalStateException("Cannot find tx with id " + txID);
    }

    JournalInternalRecord rollbackRecord = new JournalRollbackRecordTX(txID);

    if (callback != null)
    {
        callback.storeLineUp();
    }

    lockAppend.lock();
    try
    {
        JournalFile usedFile = appendRecord(rollbackRecord, false, sync, tx, callback);

        tx.rollback(usedFile);
    }
    finally
    {
        lockAppend.unlock();
    }

}
finally
{
    journalLock.readLock().unlock();
}
}

// XXX make it protected?
public int getAlignment() throws Exception
{
    return fileFactory.getAlignment();
}

private static final class DummyLoader implements LoaderCallback
{
    static final LoaderCallback INSTANCE = new DummyLoader();

    public void failedTransaction(final long transactionID, final List<RecordInfo> records,
        final List<RecordInfo> recordsToDelete)

```

```

{
}

public void updateRecord(final RecordInfo info)
{
}

public void deleteRecord(final long id)
{
}

public void addRecord(final RecordInfo info)
{
}

public void addPreparedTransaction(final PreparedTransactionInfo preparedTransaction)
{
}
}

public synchronized JournalLoadInformation loadInternalOnly() throws Exception
{
    return load(DummyLoader.INSTANCE, true, null);
}

public synchronized JournalLoadInformation loadSyncOnly(JournalState syncState) throws Exception
{
    assert syncState == JournalState.SYNCING || syncState == JournalState.SYNCING_UP_TO_DATE;
    return load(DummyLoader.INSTANCE, true, syncState);
}

public JournalLoadInformation load(final List<RecordInfo> committedRecords,
    final List<PreparedTransactionInfo> preparedTransactions,
    final TransactionFailureCallback failureCallback) throws Exception
{
    return load(committedRecords, preparedTransactions, failureCallback, true);
}

/**
 * @see JournalImpl#load(LoaderCallback)
 */
public synchronized JournalLoadInformation load(final List<RecordInfo> committedRecords,
    final List<PreparedTransactionInfo> preparedTransactions,
    final TransactionFailureCallback failureCallback,
    final boolean fixBadTX) throws Exception
{
    final Set<Long> recordsToDelete = new HashSet<Long>();
    // ArrayList was taking too long to delete elements on checkDeleteSize

```



```

final List<RecordInfo> records = new LinkedList<RecordInfo>();

final int DELETE_FLUSH = 20000;

JournalLoadInformation info = load(new LoaderCallback()
{
    Runtime runtime = Runtime.getRuntime();

    private void checkDeleteSize()
    {
        // HORNETQ-482 - Flush deletes only if memory is critical
        if (recordsToDelete.size() > DELETE_FLUSH && runtime.freeMemory() < runtime.maxMemory() * 0.2)
        {
            HornetQJournalLogger.LOGGER.debug("Flushing deletes during loading, deleteCount = " +
recordsToDelete.size());
            // Clean up when the list is too large, or it won't be possible to load large sets of files
            // Done as part of JBMESSAGING-1678
            Iterator<RecordInfo> iter = records.iterator();
            while (iter.hasNext())
            {
                RecordInfo record = iter.next();

                if (recordsToDelete.contains(record.id))
                {
                    iter.remove();
                }
            }

            recordsToDelete.clear();

            HornetQJournalLogger.LOGGER.debug("flush delete done");
        }
    }

    public void addPreparedTransaction(final PreparedTransactionInfo preparedTransaction)
    {
        preparedTransactions.add(preparedTransaction);
        checkDeleteSize();
    }

    public void addRecord(final RecordInfo info)
    {
        records.add(info);
        checkDeleteSize();
    }

    public void updateRecord(final RecordInfo info)
    {

```

```

        records.add(info);
        checkDeleteSize();
    }

    public void deleteRecord(final long id)
    {
        recordsToDelete.add(id);
        checkDeleteSize();
    }

    public void failedTransaction(final long transactionID,
                                  final List<RecordInfo> records,
                                  final List<RecordInfo> recordsToDelete)
    {
        if (failureCallback != null)
        {
            failureCallback.failedTransaction(transactionID, records, recordsToDelete);
        }
    }
}, fixBadTX, null);

for (RecordInfo record : records)
{
    if (!recordsToDelete.contains(record.id))
    {
        committedRecords.add(record);
    }
}

return info;
}

public void scheduleCompactAndBlock(int timeout) throws Exception
{
    final AtomicInteger errors = new AtomicInteger(0);

    final CountdownLatch latch = new Latch(1);

    compactorRunning.set(true);

    // We can't use the executor for the compacting... or we would dead lock because of file open and creation
    // operations (that will use the executor)
    compactorExecutor.execute(new Runnable()
    {
        public void run()
        {

```

```

    try
    {
        JournalImpl.this.compact();
    }
    catch (Throwable e)
    {
        errors.incrementAndGet();
        HornetQJournalLogger.LOGGER.errorCompacting(e);
        e.printStackTrace();
    }
    finally
    {
        latch.countDown();
    }
    });

try
{

    awaitLatch(latch, timeout);

    if (errors.get() > 0)
    {
        throw new RuntimeException("Error during compact, look at the logs");
    }
}
finally
{
    compactorRunning.set(false);
}

/**
 * Note: This method can't be called from the main executor, as it will invoke other methods
 * depending on it.
 * <p/>
 * Note: only synchronized methods on journal are methods responsible for the life-cycle such as
 * stop, start records will still come as this is being executed
 */
protected synchronized void compact() throws Exception
{
    if (compactor != null)
    {
        throw new IllegalStateException("There is pending compacting operation");
    }

    compactorLock.writeLock().lock();

```

```

try
{
    ArrayList<JournalFile> dataFilesToProcess = new
ArrayList<JournalFile>(filesRepository.getDataFilesCount());

    boolean previousReclaimValue = isAutoReclaim();

    try
    {
        HornetQJournalLogger.LOGGER.debug("Starting compacting operation on journal");

        onCompactStart();

        // We need to guarantee that the journal is frozen for this short time
        // We don't freeze the journal as we compact, only for the short time where we replace records
        journalLock.writeLock().lock();
        try
        {
            {
                if (state != JournalState.LOADED)
                {
                    return;
                }
            }

            onCompactLockingTheJournal();

            setAutoReclaim(false);

            // We need to move to the next file, as we need a clear start for negatives and positives counts
            moveNextFile(false);

            // Take the snapshots and replace the structures

            dataFilesToProcess.addAll(filesRepository.getDataFiles());

            filesRepository.clearDataFiles();

            if (dataFilesToProcess.size() == 0)
            {
                trace("Finishing compacting, nothing to process");
                return;
            }

            compactor = new JournalCompactor(fileFactory,
                this,
                filesRepository,
                records.keySet(),
                dataFilesToProcess.get(0).getFileID());

```

```

for (Map.Entry<Long, JournalTransaction> entry : transactions.entrySet())
{
    compactor.addPendingTransaction(entry.getKey(), entry.getValue().getPositiveArray());
    entry.getValue().setCompacting();
}

// We will calculate the new records during compacting, what will take the position the records will take
// after compacting
records.clear();
}
finally
{
    journalLock.writeLock().unlock();
}

Collections.sort(dataFilesToProcess, new JournalFileComparator());

// This is where most of the work is done, taking most of the time of the compacting routine.
// Notice there are no locks while this is being done.

// Read the files, and use the JournalCompactor class to create the new outputFiles, and the new collections as
// well
for (final JournalFile file : dataFilesToProcess)
{
    try
    {
        JournalImpl.readJournalFile(fileFactory, file, compactor);
    }
    catch (Throwable e)
    {
        HornetQJournalLogger.LOGGER.compactReadError(file);
        throw new Exception("Error on reading compacting for " + file, e);
    }
}

compactor.flush();

// pointcut for tests
// We need to test concurrent updates on the journal, as the compacting is being performed.
// Usually tests will use this to hold the compacting while other structures are being updated.
onCompactDone();

List<JournalFile> newDatafiles = null;

JournalCompactor localCompactor = compactor;

SequentialFile controlFile = createControlFile(dataFilesToProcess, compactor.getNewDataFiles(), null);

```

```

journalLock.writeLock().lock();
try
{
    // Need to clear the compactor here, or the replay commands will send commands back (infinite loop)
    compactor = null;

    onCompactLockingTheJournal();

    newDatafiles = localCompactor.getNewDataFiles();

    // Restore newRecords created during compacting
    for (Map.Entry<Long, JournalRecord> newRecordEntry : localCompactor.getNewRecords().entrySet())
    {
        records.put(newRecordEntry.getKey(), newRecordEntry.getValue());
    }

    // Restore compacted dataFiles
    for (int i = newDatafiles.size() - 1; i >= 0; i--)
    {
        JournalFile fileToAdd = newDatafiles.get(i);
        if (JournalImpl.trace)
        {
            JournalImpl.trace("Adding file " + fileToAdd + " back as datafile");
        }
        filesRepository.addDataFileOnTop(fileToAdd);
    }

    if (JournalImpl.trace)
    {
        JournalImpl.trace("There are " + filesRepository.getDataFilesCount() + " datafiles Now");
    }

    // Replay pending commands (including updates, deletes and commits)

    for (JournalTransaction newTransaction : localCompactor.getNewTransactions().values())
    {
        newTransaction.replaceRecordProvider(this);
    }

    localCompactor.replayPendingCommands();

    // Merge transactions back after compacting.
    // This has to be done after the replay pending commands, as we need to delete commits
    // that happened during the compacting

    for (JournalTransaction newTransaction : localCompactor.getNewTransactions().values())
    {
        if (JournalImpl.trace)

```

```

    {
        JournalImpl.trace("Merging pending transaction " + newTransaction + " after compacting the journal");
    }
    JournalTransaction liveTransaction = transactions.get(newTransaction.getId());
    if (liveTransaction != null)
    {
        liveTransaction.merge(newTransaction);
    }
    else
    {
        HornetQJournalLogger.LOGGER.compactMergeError(newTransaction.getId());
    }
}
}
finally
{
    journalLock.writeLock().unlock();
}

// At this point the journal is unlocked. We keep renaming files while the journal is already operational
renameFiles(dataFilesToProcess, newDatafiles);
deleteControlFile(controlFile);

HornetQJournalLogger.LOGGER.debug("Finished compacting on journal");

}
finally
{
    // An Exception was probably thrown, and the compactor was not cleared
    if (compactor != null)
    {
        {
            try
            {
                compactor.flush();
            }
            catch (Throwable ignored)
            {
            }
        }

        compactor = null;
    }
    setAutoReclaim(previousReclaimValue);
}
}
finally
{
    compactorLock.writeLock().unlock();
}
}

```

```

}

/**
 * <p>Load data accordingly to the record layouts</p>
 * <p/>
 * <p>Basic record layout:</p>
 * <table border=1>
 * <tr><td><b>Field Name</b></td><td><b>Size</b></td></tr>
 * <tr><td>RecordType</td><td>Byte (1)</td></tr>
 * <tr><td>FileID</td><td>Integer (4 bytes)</td></tr>
 * <tr><td>Compactor Counter</td><td>1 byte</td></tr>
 * <tr><td>TransactionID <i>(if record is transactional)</i></td><td>Long (8 bytes)</td></tr>
 * <tr><td>RecordID</td><td>Long (8 bytes)</td></tr>
 * <tr><td>BodySize(Add, update and delete)</td><td>Integer (4 bytes)</td></tr>
 * <tr><td>UserDefinedRecordType (If add/update only)</td><td>Byte (1)</td></tr>
 * <tr><td>RecordBody</td><td>Byte Array (size=BodySize)</td></tr>
 * <tr><td>Check Size</td><td>Integer (4 bytes)</td></tr>
 * </table>
 * <p/>
 * <p> The check-size is used to validate if the record is valid and complete </p>
 * <p/>
 * <p>Commit/Prepare record layout:</p>
 * <table border=1>
 * <tr><td><b>Field Name</b></td><td><b>Size</b></td></tr>
 * <tr><td>RecordType</td><td>Byte (1)</td></tr>
 * <tr><td>FileID</td><td>Integer (4 bytes)</td></tr>
 * <tr><td>Compactor Counter</td><td>1 byte</td></tr>
 * <tr><td>TransactionID <i>(if record is transactional)</i></td><td>Long (8 bytes)</td></tr>
 * <tr><td>ExtraDataLength (Prepares only)</td><td>Integer (4 bytes)</td></tr>
 * <tr><td>Number Of Files (N)</td><td>Integer (4 bytes)</td></tr>
 * <tr><td>ExtraDataBytes</td><td>Bytes (sized by ExtraDataLength)</td></tr>
 * <tr><td>* FileID(n)</td><td>Integer (4 bytes)</td></tr>
 * <tr><td>* NumberOfElements(n)</td><td>Integer (4 bytes)</td></tr>
 * <tr><td>CheckSize</td><td>Integer (4 bytes)</td></tr>
 * </table>
 * <p/>
 * <p> * FileID and NumberOfElements are the transaction summary, and they will be repeated (N)umberOfFiles
times </p>
 */
public JournalLoadInformation load(final LoaderCallback loadManager) throws Exception
{
    return load(loadManager, true, null);
}

/**
 * @param loadManager
 * @param changeData

```



```

* @param replicationSync { @code true } will place
* @return
* @throws Exception
*/
private synchronized JournalLoadInformation load(final LoaderCallback loadManager, final boolean changeData,
        final JournalState replicationSync) throws Exception
{
    if (state == JournalState.STOPPED || state == JournalState.LOADED)
    {
        throw new IllegalStateException("Journal " + this + " must be in " + JournalState.STARTED + " state, was " +
            state);
    }
    if (state == replicationSync)
    {
        throw new IllegalStateException("Journal cannot be in state " + JournalState.STARTED);
    }

    checkControlFile();

    records.clear();

    filesRepository.clear();

    transactions.clear();
    currentFile = null;

    final Map<Long, TransactionHolder> loadTransactions = new LinkedHashMap<Long, TransactionHolder>();

    final List<JournalFile> orderedFiles = orderFiles();

    filesRepository.calculateNextfileID(orderedFiles);

    int lastDataPos = JournalImpl.SIZE_HEADER;

    // AtomicLong is used only as a reference, not as an Atomic value
    final AtomicLong maxID = new AtomicLong(-1);

    for (final JournalFile file : orderedFiles)
    {
        JournalImpl.trace("Loading file " + file.getFile().getFileName());

        final AtomicBoolean hasData = new AtomicBoolean(false);

        int resultLastPost = JournalImpl.readJournalFile(fileFactory, file, new JournalReaderCallback()
        {
            private void checkID(final long id)
            {

```

```

    if (id > maxID.longValue())
    {
        maxID.set(id);
    }
}

public void onReadAddRecord(final RecordInfo info) throws Exception
{
    checkID(info.id);

    hasData.set(true);

    loadManager.addRecord(info);

    records.put(info.id, new JournalRecord(file, info.data.length + JournalImpl.SIZE_ADD_RECORD + 1));
}

public void onReadUpdateRecord(final RecordInfo info) throws Exception
{
    checkID(info.id);

    hasData.set(true);

    loadManager.updateRecord(info);

    JournalRecord posFiles = records.get(info.id);

    if (posFiles != null)
    {
        // It's legal for this to be null. The file(s) with the may
        // have been deleted
        // just leaving some updates in this file

        posFiles.addUpdateFile(file, info.data.length + JournalImpl.SIZE_ADD_RECORD + 1); // +1 = compact
        // count
    }
}

public void onReadDeleteRecord(final long recordID) throws Exception
{
    hasData.set(true);

    loadManager.deleteRecord(recordID);

    JournalRecord posFiles = records.remove(recordID);

    if (posFiles != null)
    {

```

```

        posFiles.delete(file);
    }
}

public void onReadUpdateRecordTX(final long transactionID, final RecordInfo info) throws Exception
{
    onReadAddRecordTX(transactionID, info);
}

public void onReadAddRecordTX(final long transactionID, final RecordInfo info) throws Exception
{
    checkID(info.id);

    hasData.set(true);

    TransactionHolder tx = loadTransactions.get(transactionID);

    if (tx == null)
    {
        tx = new TransactionHolder(transactionID);

        loadTransactions.put(transactionID, tx);
    }

    tx.recordInfos.add(info);

    JournalTransaction tnp = transactions.get(transactionID);

    if (tnp == null)
    {
        tnp = new JournalTransaction(transactionID, JournalImpl.this);

        transactions.put(transactionID, tnp);
    }

    tnp.addPositive(file, info.id, info.data.length + JournalImpl.SIZE_ADD_RECORD_TX + 1); // +1 =
compact
    // count
}

public void onReadDeleteRecordTX(final long transactionID, final RecordInfo info) throws Exception
{
    hasData.set(true);

    TransactionHolder tx = loadTransactions.get(transactionID);

    if (tx == null)

```

```

    {
        tx = new TransactionHolder(transactionID);

        loadTransactions.put(transactionID, tx);
    }

    tx.recordsToDelete.add(info);

    JournalTransaction tnp = transactions.get(transactionID);

    if (tnp == null)
    {
        tnp = new JournalTransaction(transactionID, JournalImpl.this);

        transactions.put(transactionID, tnp);
    }

    tnp.addNegative(file, info.id);
}

public void onReadPrepareRecord(final long transactionID, final byte[] extraData, final int
numberOfRecords) throws Exception
{
    hasData.set(true);

    TransactionHolder tx = loadTransactions.get(transactionID);

    if (tx == null)
    {
        // The user could choose to prepare empty transactions
        tx = new TransactionHolder(transactionID);

        loadTransactions.put(transactionID, tx);
    }

    tx.prepared = true;

    tx.extraData = extraData;

    JournalTransaction journalTransaction = transactions.get(transactionID);

    if (journalTransaction == null)
    {
        journalTransaction = new JournalTransaction(transactionID, JournalImpl.this);

        transactions.put(transactionID, journalTransaction);
    }
}

```

```

boolean healthy = checkTransactionHealth(file, journalTransaction, orderedFiles, numberOfRecords);

if (healthy)
{
    journalTransaction.prepare(file);
}
else
{
    HornetQJournalLogger.LOGGER.preparedTXIncomplete(transactionID);
    tx.invalid = true;
}
}

```

```

public void onReadCommitRecord(final long transactionID, final int numberOfRecords) throws Exception
{

```

```

    TransactionHolder tx = loadTransactions.remove(transactionID);

```

```

    // The commit could be alone on its own journal-file and the

```

```

    // whole transaction body was reclaimed but not the

```

```

    // commit-record

```

```

    // So it is completely legal to not find a transaction at this

```

```

    // point

```

```

    // If we can't find it, we assume the TX was reclaimed and we

```

```

    // ignore this

```

```

    if (tx != null)

```

```

    {

```

```

        JournalTransaction journalTransaction = transactions.remove(transactionID);

```

```

        if (journalTransaction == null)

```

```

        {

```

```

            throw new IllegalStateException("Cannot find tx " + transactionID);

```

```

        }

```

```

boolean healthy = checkTransactionHealth(file, journalTransaction, orderedFiles, numberOfRecords);

```

```

if (healthy)

```

```

{

```

```

    for (RecordInfo txRecord : tx.recordInfos)

```

```

    {

```

```

        if (txRecord.isUpdate)

```

```

        {

```

```

            loadManager.updateRecord(txRecord);

```

```

        }

```

```

        else

```

```

        {

```

```

            loadManager.addRecord(txRecord);

```

```

        }

```

```

    }

    for (RecordInfo deleteValue : tx.recordsToDelete)
    {
        loadManager.deleteRecord(deleteValue.id);
    }

    journalTransaction.commit(file);
}
else
{
    HornetQJournalLogger.LOGGER.txMissingElements(transactionID);

    journalTransaction.forget();
}

hasData.set(true);
}

}

public void onReadRollbackRecord(final long transactionID) throws Exception
{
    TransactionHolder tx = loadTransactions.remove(transactionID);

    // The rollback could be alone on its own journal-file and the
    // whole transaction body was reclaimed but the commit-record
    // So it is completely legal to not find a transaction at this
    // point
    if (tx != null)
    {
        JournalTransaction tnp = transactions.remove(transactionID);

        if (tnp == null)
        {
            throw new IllegalStateException("Cannot find tx " + transactionID);
        }

        // There is no need to validate summaries/holes on
        // Rollbacks.. We will ignore the data anyway.
        tnp.rollback(file);

        hasData.set(true);
    }
}

public void markAsDataFile(final JournalFile file)
{

```

```

        hasData.set(true);
    }

});

if (hasData.get())
{
    lastDataPos = resultLastPost;
    filesRepository.addDataFileOnBottom(file);
}
else
{
    if (changeData)
    {
        // Empty dataFiles with no data
        filesRepository.addFreeFile(file, false, false);
    }
}
}

if (replicationSync == JournalState.SYNCING)
{
    assert filesRepository.getDataFiles().isEmpty();
    setJournalState(JournalState.SYNCING);
    return new JournalLoadInformation(0, -1);
}

setUpCurrentFile(lastDataPos);

setJournalState(JournalState.LOADED);

for (TransactionHolder transaction : loadTransactions.values())
{
    if ((!transaction.prepared || transaction.invalid) && replicationSync !=
JournalState.SYNCING_UP_TO_DATE)
    {
        HornetQJournalLogger.LOGGER.uncommittedTxFound(transaction.transactionID);

        if (changeData)
        {
            // I append a rollback record here, because otherwise compacting will be throwing messages because of
unknown transactions
            this.appendRollbackRecord(transaction.transactionID, false);
        }

        loadManager.failedTransaction(transaction.transactionID,
            transaction.recordInfos,
            transaction.recordsToDelete);
    }
}

```

```

    }
    else
    {
        for (RecordInfo info : transaction.recordInfos)
        {
            if (info.id > maxID.get())
            {
                maxID.set(info.id);
            }
        }
    }

    PreparedTransactionInfo info = new PreparedTransactionInfo(transaction.transactionID,
transaction.extraData);

    info.records.addAll(transaction.recordInfos);

    info.recordsToDelete.addAll(transaction.recordsToDelete);

    loadManager.addPreparedTransaction(info);
}
}

checkReclaimStatus();

return new JournalLoadInformation(records.size(), maxID.longValue());
}

/**
 * @return true if cleanup was called
 */
public final boolean checkReclaimStatus() throws Exception
{

    if (compactorRunning.get())
    {
        return false;
    }

    // We can't start reclaim while compacting is working
    while (true)
    {
        if (state != JournalImpl.JournalState.LOADED)
            return false;
        if (!isAutoReclaim())
            return false;
        if (journalLock.readLock().tryLock(250, TimeUnit.MILLISECONDS))
            break;
    }
}

```



```

try
{
    reclaimer.scan(getDataFiles());

    for (JournalFile file : filesRepository.getDataFiles())
    {
        if (file.isCanReclaim())
        {
            // File can be reclaimed or deleted
            if (JournalImpl.trace)
            {
                JournalImpl.trace("Reclaiming file " + file);
            }

            filesRepository.removeDataFile(file);

            filesRepository.addFreeFile(file, false);
        }
    }
}
finally
{
    journalLock.readLock().unlock();
}

return false;
}

private boolean needsCompact() throws Exception
{
    JournalFile[] dataFiles = getDataFiles();

    long totalLiveSize = 0;

    for (JournalFile file : dataFiles)
    {
        totalLiveSize += file.getLiveSize();
    }

    long totalBytes = dataFiles.length * (long)fileSize;

    long compactMargin = (long)(totalBytes * compactPercentage);

    boolean needCompact = totalLiveSize < compactMargin && dataFiles.length > compactMinFiles;

    return needCompact;
}

```

```

private void checkCompact() throws Exception
{
    if (compactMinFiles == 0)
    {
        // compacting is disabled
        return;
    }

    if (state != JournalState.LOADED)
    {
        return;
    }

    if (!compactorRunning.get() && needsCompact())
    {
        scheduleCompact();
    }
}

private void scheduleCompact()
{
    if (!compactorRunning.compareAndSet(false, true))
    {
        return;
    }

    // We can't use the executor for the compacting... or we would dead lock because of file open and creation
    // operations (that will use the executor)
    compactorExecutor.execute(new Runnable()
    {
        public void run()
        {
            try
            {
                JournalImpl.this.compact();
            }
            catch (Throwable e)
            {
                HornetQJournalLogger.LOGGER.errorCompacting(e);
            }
            finally
            {
                compactorRunning.set(false);
            }
        }
    });
}

```

```

}

// TestableJournal implementation
// -----

public final void setAutoReclaim(final boolean autoReclaim)
{
    this.autoReclaim = autoReclaim;
}

public final boolean isAutoReclaim()
{
    return autoReclaim;
}

/* Only meant to be used in tests. */
@Override
public String debug() throws Exception
{
    reclaimer.scan(getDataFiles());

    StringBuilder builder = new StringBuilder();

    for (JournalFile file : filesRepository.getDataFiles())
    {
        builder.append("DataFile:" + file +
            " posCounter = " +
            file.getPosCount() +
            " reclaimStatus = " +
            file.isCanReclaim() +
            " live size = " +
            file.getLiveSize() +
            "\n");
        if (file instanceof JournalFileImpl)
        {
            builder.append(((JournalFileImpl)file).debug());
        }
    }

    for (JournalFile file : filesRepository.getFreeFiles())
    {
        builder.append("FreeFile:" + file + "\n");
    }

    if (currentFile != null)
    {
        builder.append("CurrentFile:" + currentFile + " posCounter = " + currentFile.getPosCount() + "\n");
    }
}

```

```

    if (currentFile instanceof JournalFileImpl)
    {
        builder.append(((JournalFileImpl)currentFile).debug());
    }
}
else
{
    builder.append("CurrentFile: No current file at this point!");
}

return builder.toString();
}

/**
 * Method for use on testcases.
 * It will call waitComplete on every transaction, so any assertions on the file system will be correct after this
 */
public void debugWait() throws InterruptedException
{
    fileFactory.flush();

    for (JournalTransaction tx : transactions.values())
    {
        tx.waitCallbacks();
    }

    if (filesExecutor != null && !filesExecutor.isShutdown())
    {
        // Send something to the closingExecutor, just to make sure we went
        // until its end
        final CountdownLatch latch = new Latch(1);

        filesExecutor.execute(new Runnable()
        {
            public void run()
            {
                latch.countDown();
            }
        });

        awaitLatch(latch, -1);
    }
}

public int getDataFilesCount()
{

```

```

    return filesRepository.getDataFilesCount();
}

public JournalFile[] getDataFiles()
{
    return filesRepository.getDataFilesArray();
}

public int getFreeFilesCount()
{
    return filesRepository.getFreeFilesCount();
}

public int getOpenedFilesCount()
{
    return filesRepository.getOpenedFilesCount();
}

public int getIDMapSize()
{
    return records.size();
}

@Override
public int getFileSize()
{
    return fileSize;
}

public int getMinFiles()
{
    return minFiles;
}

public String getFilePrefix()
{
    return filesRepository.getFilePrefix();
}

public String getFileExtension()
{
    return filesRepository.getFileExtension();
}

public int getMaxAIO()
{
    return filesRepository.getMaxAIO();
}

```

```

public int getUserVersion()
{
    return userVersion;
}

// In some tests we need to force the journal to move to a next file
public void forceMoveNextFile() throws Exception
{
    journalLock.readLock().lock();
    try
    {
        lockAppend.lock();
        try
        {
            moveNextFile(false);
            debugWait();
        }
        finally
        {
            lockAppend.unlock();
        }
    }
    finally
    {
        journalLock.readLock().unlock();
    }
}

public void perfBlast(final int pages)
{
    new PerfBlast(pages).start();
}

// HornetQComponent implementation
// -----

public synchronized boolean isStarted()
{
    return state != JournalState.STOPPED;
}

public synchronized void start()
{
    if (state != JournalState.STOPPED)
    {
        throw new IllegalStateException("Journal " + this + " is not stopped, state is " + state);
    }
}

```

```

filesExecutor = Executors.newSingleThreadExecutor(new ThreadFactory()
{
    public Thread newThread(final Runnable r)
    {
        return new Thread(r, "JournalImpl::FilesExecutor");
    }
});

compactorExecutor = Executors.newSingleThreadExecutor(new ThreadFactory()
{
    public Thread newThread(final Runnable r)
    {
        return new Thread(r, "JournalImpl::CompactorExecutor");
    }
});

filesRepository.setExecutor(filesExecutor);

fileFactory.start();

setJournalState(JournalState.STARTED);
}

public synchronized void stop() throws Exception
{
    if (state == JournalState.STOPPED)
    {
        throw new IllegalStateException("Journal is already stopped");
    }

    journalLock.writeLock().lock();
    try
    {
        lockAppend.lock();

        try
        {

            setJournalState(JournalState.STOPPED);

            compactorExecutor.shutdown();

            if (!compactorExecutor.awaitTermination(120, TimeUnit.SECONDS))
            {

```

```

        HornetQJournalLogger.LOGGER.couldNotStopCompactor();
    }

    filesExecutor.shutdown();

    filesRepository.setExecutor(null);

    if (!filesExecutor.awaitTermination(60, TimeUnit.SECONDS))
    {
        HornetQJournalLogger.LOGGER.couldNotStopJournalExecutor();
    }

    try
    {
        for (CountDownLatch latch : latches)
        {
            latch.countDown();
        }
    }
    catch (Throwable e)
    {
        HornetQJournalLogger.LOGGER.warn(e.getMessage(), e);
    }

    fileFactory.deactivateBuffer();

    if (currentFile != null && currentFile.getFile().isOpen())
    {
        currentFile.getFile().close();
    }

    filesRepository.clear();

    fileFactory.stop();

    currentFile = null;
}
finally
{
    lockAppend.unlock();
}
}
finally
{
    journalLock.writeLock().unlock();
}
}
}

```



```

public int getNumberOfRecords()
{
    return records.size();
}

protected SequentialFile createControlFile(final List<JournalFile> files,
                                           final List<JournalFile> newFiles,
                                           final Pair<String, String> cleanupRename) throws Exception
{
    ArrayList<Pair<String, String>> cleanupList;
    if (cleanupRename == null)
    {
        cleanupList = null;
    }
    else
    {
        cleanupList = new ArrayList<Pair<String, String>>();
        cleanupList.add(cleanupRename);
    }
    return AbstractJournalUpdateTask.writeControlFile(fileFactory, files, newFiles, cleanupList);
}

protected void deleteControlFile(final SequentialFile controlFile) throws Exception
{
    controlFile.delete();
}

/**
 * being protected as testcases can override this method
 */
protected void renameFiles(final List<JournalFile> oldFiles, final List<JournalFile> newFiles) throws Exception
{
    // addFreeFiles has to be called through filesExecutor, or the fileID on the orderedFiles may end up in a wrong
    // order
    // These files are already freed, and are described on the compactor file control.
    // In case of crash they will be cleared anyways

    final CountdownLatch done = newLatch(1);

    filesExecutor.execute(new Runnable()
    {
        public void run()
        {
            try
            {
                for (JournalFile file : oldFiles)

```

```

        {
            try
            {
                filesRepository.addFreeFile(file, false);
            }
            catch (Throwable e)
            {
                HornetQJournalLogger.LOGGER.errorReinitializingFile(e, file);
            }
        }
    }
    finally
    {
        done.countDown();
    }
});

// need to wait all old files to be freed
// to avoid a race where the CTR file is deleted before the init for these files is already done
// what could cause a duplicate in case of a crash after the CTR is deleted and before the file is initialized
awaitLatch(done, -1);

for (JournalFile file : newFiles)
{
    String newName = JournalImpl.renameExtensionFile(file.getFile().getFileName(), ".cmp");
    file.getFile().renameTo(newName);
}

}

/**
 * @param name
 * @return
 */
protected static String renameExtensionFile(String name, final String extension)
{
    name = name.substring(0, name.lastIndexOf(extension));
    return name;
}

/**
 * This is an interception point for testcases, when the compacted files are written, before replacing the data
 structures
 */
protected void onCompactStart() throws Exception
{
}

```

```

/**
 * This is an interception point for testcases, when the compacted files are written, to be called
 * as soon as the compactor gets a writeLock
 */
protected void onCompactLockingTheJournal() throws Exception
{
}

/**
 * This is an interception point for testcases, when the compacted files are written, before replacing the data
 structures
 */
protected void onCompactDone()
{
}

// Private
// -----

/**
 * <p/>
 * Checks for holes on the transaction (a commit written but with an incomplete transaction).
 * <p/>
 * This method will validate if the transaction (PREPARE/COMMIT) is complete as stated on the
 * COMMIT-RECORD.
 * <p/>
 * For details see { @link JournalCompleteRecordTX } about how the transaction-summary is recorded.
 *
 * @param journalTransaction
 * @param orderedFiles
 * @param numberOfRecords
 * @return
 */
private boolean checkTransactionHealth(final JournalFile currentFile,
                                     final JournalTransaction journalTransaction,
                                     final List<JournalFile> orderedFiles,
                                     final int numberOfRecords)
{
    return journalTransaction.getCounter(currentFile) == numberOfRecords;
}

private static boolean isTransaction(final byte recordType)
{
    return recordType == JournalImpl.ADD_RECORD_TX || recordType == JournalImpl.UPDATE_RECORD_TX
||
    recordType == JournalImpl.DELETE_RECORD_TX ||
    JournalImpl.isCompleteTransaction(recordType);
}

```

```

}

private static boolean isCompleteTransaction(final byte recordType)
{
    return recordType == JournalImpl.COMMIT_RECORD || recordType == JournalImpl.PREPARE_RECORD ||
        recordType == JournalImpl.ROLLBACK_RECORD;
}

private static boolean isContainsBody(final byte recordType)
{
    return recordType >= JournalImpl.ADD_RECORD && recordType <= JournalImpl.DELETE_RECORD_TX;
}

private static int getRecordSize(final byte recordType, final int journalVersion)
{
    // The record size (without the variable portion)
    int recordSize = 0;
    switch (recordType)
    {
        case ADD_RECORD:
            recordSize = JournalImpl.SIZE_ADD_RECORD;
            break;
        case UPDATE_RECORD:
            recordSize = JournalImpl.SIZE_ADD_RECORD;
            break;
        case ADD_RECORD_TX:
            recordSize = JournalImpl.SIZE_ADD_RECORD_TX;
            break;
        case UPDATE_RECORD_TX:
            recordSize = JournalImpl.SIZE_ADD_RECORD_TX;
            break;
        case DELETE_RECORD:
            recordSize = JournalImpl.SIZE_DELETE_RECORD;
            break;
        case DELETE_RECORD_TX:
            recordSize = JournalImpl.SIZE_DELETE_RECORD_TX;
            break;
        case PREPARE_RECORD:
            recordSize = JournalImpl.SIZE_PREPARE_RECORD;
            break;
        case COMMIT_RECORD:
            recordSize = JournalImpl.SIZE_COMMIT_RECORD;
            break;
        case ROLLBACK_RECORD:
            recordSize = JournalImpl.SIZE_ROLLBACK_RECORD;
            break;
        default:
            // Sanity check, this was previously tested, nothing different
    }
}

```

```

        // should be on this switch
        throw new IllegalStateException("Record other than expected");

    }
    if (journalVersion >= 2)
    {
        return recordSize + 1;
    }
    else
    {
        return recordSize;
    }
}

/**
 * @param file
 * @return
 * @throws Exception
 */
private JournalFileImpl readFileHeader(final SequentialFile file) throws Exception
{
    ByteBuffer bb = fileFactory.newBuffer(JournalImpl.SIZE_HEADER);

    file.read(bb);

    int journalVersion = bb.getInt();

    if (journalVersion != JournalImpl.FORMAT_VERSION)
    {
        boolean isCompatible = false;

        for (int v : JournalImpl.COMPATIBLE_VERSIONS)
        {
            if (v == journalVersion)
            {
                isCompatible = true;
            }
        }

        if (!isCompatible)
        {
            throw HornetQJournalBundle.BUNDLE.journalFileMismatch();
        }
    }

    int readUserVersion = bb.getInt();

    if (readUserVersion != userVersion)

```

```

    {
        throw HornetQJournalBundle.BUNDLE.journalDifferentVersion();
    }

    long fileID = bb.getLong();

    fileFactory.releaseBuffer(bb);

    bb = null;

    return new JournalFileImpl(file, fileID, journalVersion);
}

/**
 * @param fileID
 * @param sequentialFile
 * @throws Exception
 */
public static int initFileHeader(final SequentialFileFactory fileFactory,
                                final SequentialFile sequentialFile,
                                final int userVersion,
                                final long fileID) throws Exception
{
    // We don't need to release buffers while writing.
    ByteBuffer bb = fileFactory.newBuffer(JournalImpl.SIZE_HEADER);

    HornetQBuffer buffer = HornetQBuffers.wrappedBuffer(bb);

    JournalImpl.writeHeader(buffer, userVersion, fileID);

    bb.rewind();

    int bufferSize = bb.limit();

    sequentialFile.position(0);

    sequentialFile.writeDirect(bb, true);

    return bufferSize;
}

/**
 * @param buffer
 * @param userVersion
 * @param fileID
 */
public static void writeHeader(final HornetQBuffer buffer, final int userVersion, final long fileID)
{

```

```

buffer.writeInt(JournalImpl.FORMAT_VERSION);

buffer.writeInt(userVersion);

buffer.writeLong(fileID);
}

/**
 * @param completeTransaction If the appendRecord is for a prepare or commit, where we should
 *         update the number of pendingTransactions on the current file
 * @throws Exception
 */
private JournalFile appendRecord(final JournalInternalRecord encoder,
                                final boolean completeTransaction,
                                final boolean sync,
                                final JournalTransaction tx,
                                final IOAsyncTask parameterCallback) throws Exception
{
    checkJournalIsLoaded();

    final IOAsyncTask callback;

    final int size = encoder.getEncodeSize();

    switchFileIfNecessary(size);

    if (tx != null)
    {
        // The callback of a transaction has to be taken inside the lock,
        // when we guarantee the currentFile will not be changed,
        // since we individualize the callback per file
        if (fileFactory.isSupportsCallbacks())
        {
            // Set the delegated callback as a parameter
            TransactionCallback txcallback = tx.getCallback(currentFile);
            if (parameterCallback != null)
            {
                txcallback.setDelegateCompletion(parameterCallback);
            }
            callback = txcallback;
        }
        else
        {
            callback = null;
        }

        // We need to add the number of records on currentFile if prepare or commit
        if (completeTransaction)

```

```

    {
        // Filling the number of pendingTransactions at the current file
        tx.fillNumberOfRecords(currentFile, encoder);
    }
}
else
{
    callback = parameterCallback;
}

// Adding fileID
encoder.setFileID(currentFile.getRecordID());

if (callback != null)
{
    currentFile.getFile().write(encoder, sync, callback);
}
else
{
    currentFile.getFile().write(encoder, sync);
}

return currentFile;
}

@Override
void scheduleReclaim()
{
    if (state != JournalState.LOADED)
    {
        return;
    }

    if (isAutoReclaim() && !compactorRunning.get())
    {
        compactorExecutor.execute(new Runnable()
        {
            public void run()
            {
                try
                {
                    if (!checkReclaimStatus())
                    {
                        checkCompact();
                    }
                }
            }
        });
    }
    catch (Exception e)
    {

```



```

        HornetQJournalLogger.LOGGER.errorSchedulingCompacting(e);
    }
}
});
}
}

private JournalTransaction getTransactionInfo(final long txID)
{
    JournalTransaction tx = transactions.get(txID);

    if (tx == null)
    {
        tx = new JournalTransaction(txID, this);

        JournalTransaction trans = transactions.putIfAbsent(txID, tx);

        if (trans != null)
        {
            tx = trans;
        }
    }

    return tx;
}

/**
 * @throws Exception
 */
private void checkControlFile() throws Exception
{
    ArrayList<String> dataFiles = new ArrayList<String>();
    ArrayList<String> newFiles = new ArrayList<String>();
    ArrayList<Pair<String, String>> renames = new ArrayList<Pair<String, String>>();

    SequentialFile controlFile = JournalCompactor.readControlFile(fileFactory, dataFiles, newFiles, renames);
    if (controlFile != null)
    {
        for (String dataFile : dataFiles)
        {
            SequentialFile file = fileFactory.createSequentialFile(dataFile, 1);
            if (file.exists())
            {
                file.delete();
            }
        }

        for (String newFile : newFiles)

```

```

    {
        SequentialFile file = fileFactory.createSequentialFile(newFile, 1);
        if (file.exists())
        {
            final String originalName = file.getFileName();
            final String newName = originalName.substring(0, originalName.lastIndexOf(".cmp"));
            file.renameTo(newName);
        }
    }

    for (Pair<String, String> rename : renames)
    {
        SequentialFile fileTmp = fileFactory.createSequentialFile(rename.getA(), 1);
        SequentialFile fileTo = fileFactory.createSequentialFile(rename.getB(), 1);
        // We should do the rename only if the tmp file still exist, or else we could
        // delete a valid file depending on where the crash occurred during the control file delete
        if (fileTmp.exists())
        {
            fileTo.delete();
            fileTmp.renameTo(rename.getB());
        }
    }

    controlFile.delete();
}

cleanupTmpFiles(".cmp");

cleanupTmpFiles(".tmp");

return;
}

/**
 * @throws Exception
 */
private void cleanupTmpFiles(final String extension) throws Exception
{
    List<String> leftFiles = fileFactory.listFiles(getFileExtension() + extension);

    if (leftFiles.size() > 0)
    {
        HornetQJournalLogger.LOGGER.tempFilesLeftOpen();

        for (String fileToDelete : leftFiles)
        {
            HornetQJournalLogger.LOGGER.deletingOrphanedFile(fileToDelete);
            SequentialFile file = fileFactory.createSequentialFile(fileToDelete, 1);

```

```

        file.delete();
    }
}

private static boolean isValidSize(final int fileSize, final int bufferPos, final int size)
{
    if (size < 0)
    {
        return true;
    }
    else
    {
        final int position = bufferPos + size;

        return position > fileSize || position < 0;

    }
}

// Inner classes
// -----

// Used on Load
private static final class TransactionHolder
{
    public TransactionHolder(final long id)
    {
        transactionID = id;
    }

    public final long transactionID;

    public final List<RecordInfo> recordInfos = new ArrayList<RecordInfo>();

    public final List<RecordInfo> recordsToDelete = new ArrayList<RecordInfo>();

    public boolean prepared;

    public boolean invalid;

    public byte[] extraData;

}

private static final class JournalFileComparator implements Comparator<JournalFile>, Serializable
{
    private static final long serialVersionUID = -6264728973604070321L;

```

```

public int compare(final JournalFile f1, final JournalFile f2)
{
    long id1 = f1.getFileID();
    long id2 = f2.getFileID();

    return id1 < id2 ? -1 : id1 == id2 ? 0 : 1;
}
}

private final class PerfBlast extends Thread
{
    private final int pages;

    private PerfBlast(final int pages)
    {
        super("hornetq-perfbblast-thread");

        this.pages = pages;
    }

    @Override
    public void run()
    {
        lockAppend.lock();
        try
        {

            final ByteArrayEncoding byteEncoder = new ByteArrayEncoding(new byte[128 * 1024]);

            JournalInternalRecord blastRecord = new JournalInternalRecord()
            {
                @Override
                public int getEncodeSize()
                {
                    return byteEncoder.getEncodeSize();
                }

                public void encode(final HornetQBuffer buffer)
                {
                    byteEncoder.encode(buffer);
                }
            };

            for (int i = 0; i < pages; i++)
            {
                appendRecord(blastRecord, false, false, null, null);
            }
        }
    }
}

```

```

    }
    }
    catch (Exception e)
    {
        HornetQJournalLogger.LOGGER.failedToPerfBlast(e);
    }
    finally
    {
        lockAppend.unlock();
    }
}

public final void synchronizationLock()
{
    compactorLock.writeLock().lock();
    journalLock.writeLock().lock();
}

public final void synchronizationUnlock()
{
    try
    {
        compactorLock.writeLock().unlock();
    }
    finally
    {
        journalLock.writeLock().unlock();
    }
}

/**
 * Returns Map with a { @link JournalFile } for all existing files.
 * <p/>
 * These are the files needed to be sent to a backup in order to synchronize it.
 *
 * @param fileIds
 * @return map with the IDs and corresponding { @link JournalFile }s
 * @throws Exception
 */
@Override
public synchronized Map<Long, JournalFile> createFilesForBackupSync(long[] fileIds) throws Exception
{
    synchronizationLock();
    try
    {
        Map<Long, JournalFile> map = new HashMap<Long, JournalFile>();
        long maxID = -1;

```

```

    for (long id : fileIds)
    {
        maxID = Math.max(maxID, id);
        map.put(Long.valueOf(id), filesRepository.createRemoteBackupSyncFile(id));
    }
    filesRepository.setNextFileID(maxID);
    return map;
}
finally
{
    synchronizationUnlock();
}
}

@Override
public SequentialFileFactory getFileFactory()
{
    return fileFactory;
}

/**
 * @param lastDataPos
 * @return
 * @throws Exception
 */
protected JournalFile setUpCurrentFile(int lastDataPos) throws Exception
{
    // Create any more files we need

    filesRepository.ensureMinFiles();

    // The current file is the last one that has data

    currentFile = filesRepository.pollLastDataFile();
    if (currentFile != null)
    {
        if (!currentFile.getFile().isOpen())
            currentFile.getFile().open();
        currentFile.getFile().position(currentFile.getFile().calculateBlockStart(lastDataPos));
    }
    else
    {
        currentFile = filesRepository.getFreeFile();
        filesRepository.openFile(currentFile, true);
    }

    fileFactory.activateBuffer(currentFile.getFile());
}

```

```

filesRepository.pushOpenedFile();
return currentFile;
}

/**
 * @param size
 * @return
 * @throws Exception
 */
protected JournalFile switchFileIfNecessary(int size) throws Exception
{
    // We take into account the fileID used on the Header
    if (size > fileSize - currentFile.getFile().calculateBlockStart(JournalImpl.SIZE_HEADER))
    {
        throw new IllegalArgumentException("Record is too large to store " + size);
    }

    if (!currentFile.getFile().fits(size))
    {
        moveNextFile(true);

        // The same check needs to be done at the new file also
        if (!currentFile.getFile().fits(size))
        {
            // Sanity check, this should never happen
            throw new IllegalStateException("Invalid logic on buffer allocation");
        }
    }
    return currentFile;
}

private CountdownLatch newLatch(int countDown)
{
    if (state == JournalState.STOPPED)
    {
        throw new RuntimeException("Server is not started");
    }
    CountdownLatch latch = new CountdownLatch(countDown);
    latches.add(latch);
    return latch;
}

private void awaitLatch(CountdownLatch latch, int timeout) throws InterruptedException
{
    try
    {
        if (timeout < 0)
        {

```

```

        latch.await();
    }
    else
    {
        latch.await(timeout, TimeUnit.SECONDS);
    }

    // in case of an interrupted server, we need to make sure we don't proceed on anything
    if (state == JournalState.STOPPED)
    {
        throw new RuntimeException("Server is not started");
    }
}
finally
{
    latches.remove(latch);
}
}

/**
 * You need to guarantee lock.acquire() before calling this method!
 */
private void moveNextFile(final boolean scheduleReclaim) throws Exception
{
    filesRepository.closeFile(currentFile);

    currentFile = filesRepository.openFile();

    if (scheduleReclaim)
    {
        scheduleReclaim();
    }

    if (trace)
    {
        HornetQJournalLogger.LOGGER.movingNextFile(currentFile);
    }

    fileFactory.activateBuffer(currentFile.getFile());
}

@Override
public void replicationSyncPreserveOldFiles()
{
    setAutoReclaim(false);
}

@Override

```



```

public void replicationSyncFinished()
{
    setAutoReclaim(true);
}

@Override
public void testCompact()
{
    try
    {
        scheduleCompactAndBlock(60);
    }
    catch (Exception e)
    {
        throw new RuntimeException(e);
    }
}
}
/*
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 * permissions and limitations under the License.
 */

package org.hornetq.core.journal.impl;

import java.util.Map;
import java.util.Map.Entry;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.atomic.AtomicInteger;

import org.hornetq.core.journal.SequentialFile;

/**
 *
 * A JournalFileImpl
 *
 * @author <a href="mailto:tim.fox@jboss.com">Tim Fox</a>
 * @author <a href="mailto:clebert.suonic@jboss.com">Clebert Suonic</a>
 *
 */

```

```

public class JournalFileImpl implements JournalFile
{
    private final SequentialFile file;

    private final long fileID;

    private final int recordID;

    private long offset;

    private final AtomicInteger posCount = new AtomicInteger(0);

    private final AtomicInteger liveBytes = new AtomicInteger(0);

    private boolean canReclaim;

    private final AtomicInteger totalNegativeToOthers = new AtomicInteger(0);

    private final int version;

    private final Map<JournalFile, AtomicInteger> negCounts = new ConcurrentHashMap<JournalFile,
AtomicInteger>();

    public JournalFileImpl(final SequentialFile file, final long fileID, final int version)
    {
        this.file = file;

        this.fileID = fileID;

        this.version = version;

        recordID = (int)(fileID & Integer.MAX_VALUE);
    }

    public int getPosCount()
    {
        return posCount.intValue();
    }

    @Override
    public boolean isCanReclaim()
    {
        return canReclaim;
    }

    @Override
    public void setCanReclaim(final boolean canReclaim)
    {

```

```

    this.canReclaim = canReclaim;
}

public void incNegCount(final JournalFile file)
{
    if (file != this)
    {
        totalNegativeToOthers.incrementAndGet();
    }
    getOrCreateNegCount(file).incrementAndGet();
}

public int getNegCount(final JournalFile file)
{
    AtomicInteger count = negCounts.get(file);

    if (count == null)
    {
        return 0;
    }
    else
    {
        return count.intValue();
    }
}

public int getJournalVersion()
{
    return version;
}

public void incPosCount()
{
    posCount.incrementAndGet();
}

public void decPosCount()
{
    posCount.decrementAndGet();
}

public long getOffset()
{
    return offset;
}

public long getFileID()
{

```

```

    return fileID;
}

public int getRecordID()
{
    return recordID;
}

public void setOffset(final long offset)
{
    this.offset = offset;
}

public SequentialFile getFile()
{
    return file;
}

@Override
public String toString()
{
    try
    {
        return "JournalFileImpl: (" + file.getFileName() + " id = " + fileID + ", recordID = " + recordID + ")";
    }
    catch (Exception e)
    {
        e.printStackTrace();
        return "Error:" + e.toString();
    }
}

/** Receive debug information about the journal */
public String debug()
{
    StringBuilder builder = new StringBuilder();

    for (Entry<JournalFile, AtomicInteger> entry : negCounts.entrySet())
    {
        builder.append(" file = " + entry.getKey() + " negcount value = " + entry.getValue() + "\n");
    }

    return builder.toString();
}

private synchronized AtomicInteger getOrCreateNegCount(final JournalFile file)
{
    AtomicInteger count = negCounts.get(file);

```

```

    if (count == null)
    {
        count = new AtomicInteger();
        negCounts.put(file, count);
    }

    return count;
}

@Override
public void addSize(final int bytes)
{
    liveBytes.addAndGet(bytes);
}

@Override
public void decSize(final int bytes)
{
    liveBytes.addAndGet(-bytes);
}

@Override
public int getLiveSize()
{
    return liveBytes.get();
}

public int getTotalNegativeToOthers()
{
    return totalNegativeToOthers.get();
}

}
/*
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 * implied. See the License for the specific language governing
 * permissions and limitations under the License.
 */

package org.hornetq.core.journal;

```

```

/**
 * A IOCompletion
 *
 * @author <mailto:clebert.suonic@jboss.org">Clebert Suonic</a>
 *
 */
public interface IOCompletion extends IOAsyncTask
{
    void storeLineUp();
}
/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 * implied. See the License for the specific language governing
 * permissions and limitations under the License.
 */

package org.hornetq.core.asyncio.impl;

import java.nio.ByteBuffer;
import java.nio.channels.FileLock;
import java.util.PriorityQueue;
import java.util.concurrent.Executor;
import java.util.concurrent.Semaphore;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicInteger;
import java.util.concurrent.atomic.AtomicLong;
import java.util.concurrent.locks.Lock;
import java.util.concurrent.locks.ReentrantLock;
import java.util.concurrent.locks.ReentrantReadWriteLock;

import org.hornetq.api.core.HornetQException;
import org.hornetq.api.core.HornetQExceptionType;
import org.hornetq.core.asyncio.AIOCallback;
import org.hornetq.core.asyncio.AsynchronousFile;
import org.hornetq.core.asyncio.BufferCallback;
import org.hornetq.core.asyncio.IOExceptionListener;
import org.hornetq.journal.HornetQJournalLogger;
import org.hornetq.utils.ReusableLatch;

```

```

/**
 * AsynchronousFile implementation
 *
 * @author clebert.suconic@jboss.com
 *   Warning: Case you refactor the name or the package of this class
 *   You need to make sure you also rename the C++ native calls
 */
public class AsynchronousFileImpl implements AsynchronousFile
{
    // Static -----

    private static final AtomicInteger totalMaxIO = new AtomicInteger(0);

    private static boolean loaded = false;

    /**
     * This definition needs to match Version.h on the native sources.
     * <p/>
     * Or else the native module won't be loaded because of version mismatches
     */
    private static final int EXPECTED_NATIVE_VERSION = 51;

    /**
     * Used to determine the next writing sequence
     */
    private final AtomicLong nextWritingSequence = new AtomicLong(0);

    /**
     * Used to determine the next writing sequence.
     * This is accessed from a single thread (the Poller Thread)
     */
    private long nextReadSequence = 0;

    /**
     * AIO can't guarantee ordering over callbacks.
     * <p/>
     * We use this { @link PriorityQueue } to hold values until they are in order
     */
    private final PriorityQueue<CallbackHolder> pendingCallbacks = new PriorityQueue<CallbackHolder>();

    public static void addMax(final int io)
    {
        AsynchronousFileImpl.totalMaxIO.addAndGet(io);
    }

    /**
     * For test purposes
     */
}

```

```

public static int getTotalMaxIO()
{
    return AsynchronousFileImpl.totalMaxIO.get();
}

public static void resetMaxAIO()
{
    AsynchronousFileImpl.totalMaxIO.set(0);
}

private static boolean loadLibrary(final String name)
{
    try
    {
        HornetQJournalLogger.LOGGER.trace(name + " being loaded");
        System.loadLibrary(name);
        if (AsynchronousFileImpl.getNativeVersion() != AsynchronousFileImpl.EXPECTED_NATIVE_VERSION)
        {
            HornetQJournalLogger.LOGGER.incompatibleNativeLibrary();
            return false;
        }
    }
    else
    {
        // Initializing nanosleep
        AsynchronousFileImpl.setNanoSleepInterval(1);
        return true;
    }
}
catch (Throwable e)
{
    HornetQJournalLogger.LOGGER.debug(name + " -> error loading the native library", e);
    return false;
}

}

static
{
    String[] libraries = new String[]{"HornetQAIO", "HornetQAIO64", "HornetQAIO32", "HornetQAIO_ia64"};

    for (String library : libraries)
    {
        if (AsynchronousFileImpl.loadLibrary(library))
        {
            AsynchronousFileImpl.loaded = true;
            break;
        }
    }
    else

```



```

    {
        HornetQJournalLogger.LOGGER.debug("Library " + library + " not found!");
    }
}

if (!AsynchronousFileImpl.loaded)
{
    HornetQJournalLogger.LOGGER.debug("Couldn't locate LibAIO Wrapper");
}
}

public static boolean isLoaded()
{
    return AsynchronousFileImpl.loaded;
}

// Attributes -----

private boolean opened = false;

private String fileName;

/**
 * Used while inside the callbackDone and callbackError
 */
private final Lock callbackLock = new ReentrantLock();

private final ReusableLatch pollerLatch = new ReusableLatch();

private volatile Runnable poller;

private int maxIO;

private final Lock writeLock = new ReentrantReadWriteLock().writeLock();

private final ReusableLatch pendingWrites = new ReusableLatch();

private Semaphore maxIOSemaphore;

private BufferCallback bufferCallback;

/**
 * A callback for IO errors when they happen
 */
private final IOExceptionListener ioExceptionListener;

/**
 * Warning: Beware of the C++ pointer! It will bite you! :-)
```

```

*/
private ByteBuffer handler;

// A context switch on AIO would make it to synchronize the disk before
// switching to the new thread, what would cause
// serious performance problems. Because of that we make all the writes on
// AIO using a single thread.
private final Executor writeExecutor;

private final Executor pollerExecutor;

// AsynchronousFile implementation -----

/**
 * @param writeExecutor It needs to be a single Thread executor. If null it will use the user thread to execute write
operations
 * @param pollerExecutor The thread pool that will initialize poller handlers
 */
public AsynchronousFileImpl(final Executor writeExecutor, final Executor pollerExecutor, final
IOExceptionListener ioExceptionListener)
{
    this.writeExecutor = writeExecutor;
    this.pollerExecutor = pollerExecutor;
    this.ioExceptionListener = ioExceptionListener;
}

public AsynchronousFileImpl(final Executor writeExecutor, final Executor pollerExecutor)
{
    this(writeExecutor, pollerExecutor, null);
}

public void open(final String fileName1, final int maxIOArgument) throws HornetQException
{
    writeLock.lock();

    try
    {
        if (opened)
        {
            throw new IllegalStateException("AsynchronousFile is already opened");
        }

        this.maxIO = maxIOArgument;
        maxIOSemaphore = new Semaphore(this.maxIO);

        this.fileName = fileName1;

    }
}

```

```

    {
        handler = AsynchronousFileImpl.init(fileName1, this.maxIO, HornetQJournalLogger.LOGGER);
    }
    catch (HornetQException e)
    {
        HornetQException ex = null;
        if (e.getType() == HornetQExceptionType.NATIVE_ERROR_CANT_INITIALIZE_AIO)
        {
            ex = new HornetQException(e.getType(),
                "Can't initialize AIO. Currently AIO in use = " + AsynchronousFileImpl.totalMaxIO.get()
+
                ", trying to allocate more " +
                maxIOArgument,
                e);
        }
        else
        {
            ex = e;
        }
        throw ex;
    }
    opened = true;
    AsynchronousFileImpl.addMax(this.maxIO);
    nextWritingSequence.set(0);
    nextReadSequence = 0;
}
finally
{
    writeLock.unlock();
}
}

public void close() throws InterruptedException, HornetQException
{
    checkOpened();

    writeLock.lock();

    try
    {
        while (!pendingWrites.await(60000))
        {
            HornetQJournalLogger.LOGGER.couldNotGetLock(fileName);
        }

        while (!maxIOSemaphore.tryAcquire(maxIO, 60, TimeUnit.SECONDS))
        {

```

```

        HornetQJournalLogger.LOGGER.couldNotGetLock(fileName);
    }

    maxIOSemaphore = null;
    if (poller != null)
    {
        stopPoller();
    }

    if (handler != null)
    {
        AsynchronousFileImpl.closeInternal(handler);
        AsynchronousFileImpl.addMax(-maxIO);
    }
    opened = false;
    handler = null;
}
finally
{
    writeLock.unlock();
}
}

public void writeInternal(long positionToWrite, long size, ByteBuffer bytes) throws HornetQException
{
    try
    {
        writeInternal(handler, positionToWrite, size, bytes);
    }
    catch (HornetQException e)
    {
        fireExceptionListener(e.getType().getCode(), e.getMessage());
        throw e;
    }
    if (bufferCallback != null)
    {
        bufferCallback.bufferDone(bytes);
    }
}

public void write(final long position,
                 final long size,
                 final ByteBuffer directByteBuffer,
                 final AIOCallback aioCallback)
{
    if (aioCallback == null)

```

```

{
    throw new NullPointerException("Null Callback");
}

checkOpened();
if (poller == null)
{
    startPoller();
}

pendingWrites.countUp();

if (writeExecutor != null)
{
    maxIOSemaphore.acquireUninterruptibly();

    writeExecutor.execute(new Runnable()
    {
        public void run()
        {
            long sequence = nextWritingSequence.getAndIncrement();

            try
            {
                write(handler, sequence, position, size, directByteBuffer, aioCallback);
            }
            catch (HornetQException e)
            {
                callbackError(aioCallback, sequence, directByteBuffer, e.getType().getCode(), e.getMessage());
            }
            catch (RuntimeException e)
            {
                callbackError(aioCallback,
                    sequence,
                    directByteBuffer,
                    HornetQExceptionType.INTERNAL_ERROR.getCode(),
                    e.getMessage());
            }
        }
    });
}
else
{
    maxIOSemaphore.acquireUninterruptibly();

    long sequence = nextWritingSequence.getAndIncrement();

    try

```

```

    {
        write(handler, sequence, position, size, directByteBuffer, aioCallback);
    }
    catch (HornetQException e)
    {
        callbackError(aioCallback, sequence, directByteBuffer, e.getType().getCode(), e.getMessage());
    }
    catch (RuntimeException e)
    {
        callbackError(aioCallback, sequence, directByteBuffer,
HornetQExceptionType.INTERNAL_ERROR.getCode(), e.getMessage());
    }
    }

}

public void read(final long position,
                final long size,
                final ByteBuffer directByteBuffer,
                final AIOCallback aioPackage) throws HornetQException
{
    checkOpened();
    if (poller == null)
    {
        startPoller();
    }
    pendingWrites.countUp();
    maxIOSemaphore.acquireUninterruptibly();
    try
    {
        read(handler, position, size, directByteBuffer, aioPackage);
    }
    catch (HornetQException e)
    {
        // Release only if an exception happened
        maxIOSemaphore.release();
        pendingWrites.countDown();
        throw e;
    }
    catch (RuntimeException e)
    {
        // Release only if an exception happened
        maxIOSemaphore.release();
        pendingWrites.countDown();
        throw e;
    }
}

```

```

public long size() throws HornetQException
{
    checkOpened();
    return size0(handler);
}

public void fill(final long position, final int blocks, final long size, final byte fillChar) throws HornetQException
{
    checkOpened();
    try
    {
        AsynchronousFileImpl.fill(handler, position, blocks, size, fillChar);
    }
    catch (HornetQException e)
    {
        fireExceptionListener(e.getType().getCode(), e.getMessage());
        throw e;
    }
}

public int getBlockSize()
{
    return 512;
}

/**
 * This needs to be synchronized because of
 * http://bugs.sun.com/view\_bug.do?bug\_id=6791815
 * http://mail.openjdk.java.net/pipermail/hotspot-runtime-dev/2009-January/000386.html
 */
public static synchronized ByteBuffer newBuffer(final int size)
{
    if (size % 512 != 0)
    {
        throw new RuntimeException("Buffer size needs to be aligned to 512");
    }

    return AsynchronousFileImpl.newNativeBuffer(size);
}

public void setBufferCallback(final BufferCallback callback)
{
    bufferCallback = callback;
}

/**
 * Return the JNI handler used on C++
 */

```

```

public ByteBuffer getHandler()
{
    return handler;
}

public static void clearBuffer(final ByteBuffer buffer)
{
    AsynchronousFileImpl.resetBuffer(buffer, buffer.limit());
    buffer.position(0);
}

// Protected -----

@Override
protected void finalize()
{
    if (opened)
    {
        HornetQJournalLogger.LOGGER.fileFinalizedWhileOpen(fileName);
    }
}

// Private -----

private void callbackDone(final AIOCallback callback, final long sequence, final ByteBuffer buffer)
{
    maxIOSemaphore.release();

    pendingWrites.countDown();

    callbackLock.lock();

    try
    {
        if (sequence == -1)
        {
            callback.done();
        }
        else
        {
            if (sequence == nextReadSequence)
            {
                nextReadSequence++;
                callback.done();
                flushCallbacks();
            }
            else

```



```

        {
            pendingCallbacks.add(new CallbackHolder(sequence, callback));
        }
    }

    // The buffer is not sent on callback for read operations
    if (bufferCallback != null && buffer != null)
    {
        bufferCallback.bufferDone(buffer);
    }
}
finally
{
    callbackLock.unlock();
}
}

private void flushCallbacks()
{
    while (!pendingCallbacks.isEmpty() && pendingCallbacks.peek().sequence == nextReadSequence)
    {
        CallbackHolder holder = pendingCallbacks.poll();
        if (holder.isError())
        {
            ErrorCallback error = (ErrorCallback)holder;
            holder.callback.onError(error.errorCode, error.message);
        }
        else
        {
            holder.callback.done();
        }
        nextReadSequence++;
    }
}

// Called by the JNI layer.. just ignore the
// warning
private void callbackError(final AIOCallback callback,
                           final long sequence,
                           final ByteBuffer buffer,
                           final int errorCode,
                           final String errorMessage)
{
    HornetQJournalLogger.LOGGER.callbackError(errorMessage);

    fireExceptionHandler(errorCode, errorMessage);

    maxIOSemaphore.release();
}

```

```

pendingWrites.countDown();

callbackLock.lock();

try
{
    if (sequence == -1)
    {
        callback.onError(errorCode, errorMessage);
    }
    else
    {
        if (sequence == nextReadSequence)
        {
            nextReadSequence++;
            callback.onError(errorCode, errorMessage);
            flushCallbacks();
        }
        else
        {
            pendingCallbacks.add(new ErrorCallback(sequence, callback, errorCode, errorMessage));
        }
    }
}
finally
{
    callbackLock.unlock();
}

// The buffer is not sent on callback for read operations
if (bufferCallback != null && buffer != null)
{
    bufferCallback.bufferDone(buffer);
}
}

/**
 * This is called by the native layer
 *
 * @param errorCode
 * @param errorMessage
 */
private void fireExceptionHandler(final int errorCode, final String errorMessage)
{
    HornetQJournalLogger.LOGGER.ioError(errorCode, errorMessage);
    if (ioExceptionHandler != null)
    {

```

```

ioExceptionHandler.onIOException(HornetQExceptionType.getType(errorCode).createException(errorMessage), er
rorMessage);
    }
}

private void pollEvents()
{
    if (!opened)
    {
        return;
    }
    AsynchronousFileImpl.internalPollEvents(handler);
}

private void startPoller()
{
    writeLock.lock();

    try
    {
        if (poller == null)
        {
            pollerLatch.countUp();
            poller = new PollerRunnable();
            try
            {
                pollerExecutor.execute(poller);
            }
            catch (Exception ex)
            {
                HornetQJournalLogger.LOGGER.errorStartingPoller(ex);
            }
        }
    }
    finally
    {
        writeLock.unlock();
    }
}

private void checkOpened()
{
    if (!opened)
    {
        throw new RuntimeException("File is not opened");
    }
}

```

```

/**
 * @throws HornetQException
 * @throws InterruptedException
 */
private void stopPoller() throws HornetQException, InterruptedException
{
    AsynchronousFileImpl.stopPoller(handler);
    // We need to make sure we won't call close until Poller is
    // completely done, or we might get beautiful GPFs
    pollerLatch.await();
}

public static FileLock lock(int handle)
{
    if (flock(handle))
    {
        return new HornetQFileLock(handle);
    }
    else
    {
        return null;
    }
}

// Native -----

// Functions used for locking files .....
public static native int openFile(String fileName);

public static native void closeFile(int handle);

private static native boolean flock(int handle);
// Functions used for locking files ^^^^^^^^

private static native void resetBuffer(ByteBuffer directByteBuffer, int size);

public static native void destroyBuffer(ByteBuffer buffer);

/**
 * Instead of passing the nanoSeconds through the stack call every time, we set it statically inside the native
method
 */
public static native void setNanoSleepInterval(int nanoseconds);

public static native void nanoSleep();

```

```

private static native ByteBuffer newNativeBuffer(long size);

private static native ByteBuffer init(String fileName, int maxIO, HornetQJournalLogger logger) throws
HornetQException;

private native long size0(ByteBuffer handle) throws HornetQException;

private native void write(ByteBuffer handle,
    long sequence,
    long position,
    long size,
    ByteBuffer buffer,
    AIOCallback aioPackage) throws HornetQException;

/**
 * a direct write to the file without the use of libaio's submit.
 */
private native void writeInternal(ByteBuffer handle, long positionToWrite, long size, ByteBuffer bytes) throws
HornetQException;

private native void read(ByteBuffer handle, long position, long size, ByteBuffer buffer, AIOCallback aioPackage)
throws HornetQException;

private static native void fill(ByteBuffer handle, long position, int blocks, long size, byte fillChar) throws
HornetQException;

private static native void closeInternal(ByteBuffer handler) throws HornetQException;

private static native void stopPoller(ByteBuffer handler) throws HornetQException;

/**
 * A native method that does nothing, and just validate if the ELF dependencies are loaded and on the correct
platform as this binary format
 */
private static native int getNativeVersion();

/**
 * Poll asynchronous events from internal queues
 */
private static native void internalPollEvents(ByteBuffer handler);

// Inner classes -----

/**
 * Explicitly adding a compare to clause that returns 0 for at least the same object.
 * <p/>
 * If { @link Comparable#compareTo(Object) } does not return 0 -for at least the same object- some
 * Collection classes methods will fail (example { @link PriorityQueue#remove(Object) }. If it

```

```

* returns 0, then {@link #equals(Object)} must return {@code true} for the exact same cases,
* otherwise we will get compatibility problems between Java5 and Java6.
*/
private static class CallbackHolder implements Comparable<CallbackHolder>
{
    final long sequence;

    final AIOCallback callback;

    public boolean isError()
    {
        return false;
    }

    public CallbackHolder(final long sequence, final AIOCallback callback)
    {
        this.sequence = sequence;
        this.callback = callback;
    }

    public int compareTo(final CallbackHolder o)
    {
        // It shouldn't be equals in any case
        if (this == o)
            return 0;
        if (sequence <= o.sequence)
        {
            return -1;
        }
        else
        {
            return 1;
        }
    }

    /**
     * See {@link CallbackHolder}.
     */
    @Override
    public int hashCode()
    {
        return super.hashCode();
    }

    /**
     * See {@link CallbackHolder}.
     */
    @Override

```

```

public boolean equals(Object obj)
{
    return super.equals(obj);
}
}

private static final class ErrorCallback extends CallbackHolder
{
    final int errorCode;

    final String message;

    @Override
    public boolean isError()
    {
        return true;
    }

    public ErrorCallback(final long sequence, final AIOCallback callback, final int errorCode, final String message)
    {
        super(sequence, callback);

        this.errorCode = errorCode;

        this.message = message;
    }

    /**
     * See { @link CallbackHolder}.
     */
    @Override
    public int hashCode()
    {
        return super.hashCode();
    }

    /**
     * See { @link CallbackHolder}.
     */
    @Override
    public boolean equals(Object obj)
    {
        return super.equals(obj);
    }
}

private class PollerRunnable implements Runnable
{

```

```

PollerRunnable()
{
}

public void run()
{
    try
    {
        pollEvents();
    }
    finally
    {
        // This gives us extra protection in cases of interruption
        // Case the poller thread is interrupted, this will allow us to
        // restart the thread when required
        poller = null;
        pollerLatch.countDown();
    }
}
}
}
}

```

1.101 httpclient 4.5.2

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```
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// Transitive dependencies of this project determined from the  
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// -----
```

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```
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// Transitive dependencies of this project determined from the  
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```

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- Java Transaction API (http://www.jboss.org/jboss-transaction-api_1.1_spec)

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.121 javax-jms 1.1.1

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1.135 JBoss Marshalling API 1.4.4.Final

1.136 JBoss Marshalling River 1.4.4.Final

1.137 jboss-logging 3.1.3.GA

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1.138 jboss-transaction-api_1.1_spec

1.0.1.Final

1.139 jboss-transaction-api_1.2_spec

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1.141 jcl-over-slf4j 1.7.6

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 */

package org.apache.commons.logging;

```
/**
 * <p>A simple logging interface abstracting logging APIs. In order to be
 * instantiated successfully by { @link LogFactory }, classes that implement
 * this interface must have a constructor that takes a single String
 * parameter representing the "name" of this Log.</p>
 *
 * <p> The six logging levels used by <code>Log</code> are (in order):
 * <ol>
 * <li>trace (the least serious)</li>
 * <li>debug</li>
 * <li>info</li>
 * <li>warn</li>
 * <li>error</li>
 * <li>fatal (the most serious)</li>
 * </ol>
 *
 * The mapping of these log levels to the concepts used by the underlying
 * logging system is implementation dependent.
 * The implementation should ensure, though, that this ordering behaves
 * as expected.</p>
 *
 * <p>Performance is often a logging concern.
 * By examining the appropriate property,
 * a component can avoid expensive operations (producing information
 * to be logged).</p>
 *
 * <p> For example,
 * <code><pre>
 * if (log.isDebugEnabled()) {
 *     ... do something expensive ...
 *     log.debug(theResult);
 * }
 * </pre></code>
```

```

* </p>
*
* <p>Configuration of the underlying logging system will generally be done
* external to the Logging APIs, through whatever mechanism is supported by
* that system.</p>
*
* <p style="color: #E40; font-weight: bold;">Please note that this interface is identical to that found in JCL
1.1.1.</p>
*
* @author <a href="mailto:sanders@apache.org">Scott Sanders</a>
* @author Rod Waldhoff
* @version $Id: Log.java,v 1.19 2004/06/06 21:16:04 rdonkin Exp $
*/
public interface Log {

    // ----- Logging Properties

    /**
     * <p> Is debug logging currently enabled? </p>
     *
     * <p> Call this method to prevent having to perform expensive operations
     * (for example, <code>String</code> concatenation)
     * when the log level is more than debug. </p>
     */
    public boolean isDebugEnabled();

    /**
     * <p> Is error logging currently enabled? </p>
     *
     * <p> Call this method to prevent having to perform expensive operations
     * (for example, <code>String</code> concatenation)
     * when the log level is more than error. </p>
     */
    public boolean isErrorEnabled();

    /**
     * <p> Is fatal logging currently enabled? </p>
     *
     * <p> Call this method to prevent having to perform expensive operations
     * (for example, <code>String</code> concatenation)
     * when the log level is more than fatal. </p>
     */
    public boolean isFatalEnabled();

```

```

/**
 * <p> Is info logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
 * when the log level is more than info. </p>
 *
 * @return true if info enabled, false otherwise
 */
public boolean isInfoEnabled();

```

```

/**
 * <p> Is trace logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
 * when the log level is more than trace. </p>
 *
 * @return true if trace enabled, false otherwise
 */
public boolean isTraceEnabled();

```

```

/**
 * <p> Is warn logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
 * when the log level is more than warn. </p>
 *
 */
public boolean isWarnEnabled();

```

```

// ----- Logging Methods

```

```

/**
 * <p> Log a message with trace log level. </p>
 *
 * @param message log this message
 */
public void trace(Object message);

```

```

/**
 * <p> Log an error with trace log level. </p>

```

```

*
* @param message log this message
* @param t log this cause
*/
public void trace(Object message, Throwable t);

/**
 * <p> Log a message with debug log level. </p>
 *
 * @param message log this message
 */
public void debug(Object message);

/**
 * <p> Log an error with debug log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void debug(Object message, Throwable t);

/**
 * <p> Log a message with info log level. </p>
 *
 * @param message log this message
 */
public void info(Object message);

/**
 * <p> Log an error with info log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void info(Object message, Throwable t);

/**
 * <p> Log a message with warn log level. </p>
 *
 * @param message log this message
 */
public void warn(Object message);

```

```

/**
 * <p> Log an error with warn log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void warn(Object message, Throwable t);

/**
 * <p> Log a message with error log level. </p>
 *
 * @param message log this message
 */
public void error(Object message);

/**
 * <p> Log an error with error log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void error(Object message, Throwable t);

/**
 * <p> Log a message with fatal log level. </p>
 *
 * @param message log this message
 */
public void fatal(Object message);

/**
 * <p> Log an error with fatal log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void fatal(Object message, Throwable t);

}

```

1.142 jericho html parser 3.2 :1.0

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1.146 JGroups 3.4.1.Final

1.147 jnet 1.0

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1.148 joda-time 2.1

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/*

* jQuery selectBox - A cosmetic, styleable replacement for SELECT elements

*

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1.158 jsch 0.1.51

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1.159 jsf-api 1.2_15-jbossorg-2

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1.163 jstl 1.2

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1.164 jul-to-slf4j 1.7.6

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Version 1.1

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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Version 2.1, February 1999

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Appendix C: The MPL License

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Version 1.1

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1.4. "Electronic Distribution Mechanism" means a mechanism generally accepted in the software development community for the electronic transfer of data.

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J. M. G. Elliott
15-Jul-2000

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1.169 Liferay Portal Community Edition_CPL-

1.0 6.2

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1.179 logback-classic 1.1.1

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1.181 mail 1.4

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/*
 * @(#)IllegalWriteException.java 1.5 05/08/29
 *
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 */

package javax.mail;

/**
 * The exception thrown when a write is attempted on a read-only attribute
 * of any Messaging object.
 *
 * @author John Mani
 */

public
class IllegalWriteException extends MessagingException {

    private static final long serialVersionUID = 3974370223328268013L;

    /**
     * Constructs a IllegalWriteException with no detail message.
     */
}
```

```

*/
public IllegalWriteException() {
super();
}

/**
 * Constructs a IllegalWriteException with the specified detail message.
 * @param s the detail message
 */
public IllegalWriteException(String s) {
super(s);
}
}

```

1.182 Metrics Core 3.1.0

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1.184 metrics-graphite 3.0.2

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1.185 metrics-jvm 3.0.2

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1.186 metrics-log4j 3.0.2

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1.196 picketbox 4.0.21.Final

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1.197 picketbox-commons 1.0.0.final

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.199 poi 3.10-FINAL

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1.207 richfaces-ui 3.3.4.Final

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1.211 servlet-api 2.5

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1.212 servlet-api 2.4

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1.213 slf4j-api 1.7.2

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1.214 slf4j-api 1.7.12

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*/

```
package org.slf4j;
```

```
import org.slf4j.helpers.BasicMarkerFactory;
```

```
import org.slf4j.helpers.Util;
```

```
import org.slf4j.impl.StaticMarkerBinder;
```

```
/**
```

```
* MarkerFactory is a utility class producing { @link Marker } instances as
```

```
* appropriate for the logging system currently in use.
```

```
*
```

```
* <p>
```

```
* This class is essentially implemented as a wrapper around an
```

```
* { @link IMarkerFactory } instance bound at compile time.
```

```
*
```

```
* <p>
```

```
* Please note that all methods in this class are static.
```

```
*
```

```
* @author Ceki G&uuml;lc&uuml;l;
```

```
*/
```

```
public class MarkerFactory {
```

```
    static IMarkerFactory markerFactory;
```

```
    private MarkerFactory() {
```

```
    }
```

```
    static {
```

```
        try {
```

```
            markerFactory = StaticMarkerBinder.SINGLETON.getMarkerFactory();
```

```
        } catch (NoClassDefFoundError e) {
```

```
            markerFactory = new BasicMarkerFactory();
```

```
        } catch (Exception e) {
```

```
            // we should never get here
```

```
            Util.report("Unexpected failure while binding MarkerFactory", e);
```

```
        }
```

```
    }
```

```
/**
```

```
* Return a Marker instance as specified by the name parameter using the
```

```
* previously bound { @link IMarkerFactory } instance.
```

```
*
```

```
* @param name
```

```
*     The name of the { @link Marker } object to return.
```

```
* @return marker
```

```
*/
```

```

public static Marker getMarker(String name) {
    return markerFactory.getMarker(name);
}

/**
 * Create a marker which is detached (even at birth) from the MarkerFactory.
 *
 * @param name the name of the marker
 * @return a dangling marker
 * @since 1.5.1
 */
public static Marker getDetachedMarker(String name) {
    return markerFactory.getDetachedMarker(name);
}

/**
 * Return the {@link IMarkerFactory} instance in use.
 *
 * <p>The IMarkerFactory instance is usually bound with this class at
 * compile time.
 *
 * @return the IMarkerFactory instance in use
 */
public static IMarkerFactory getIMarkerFactory() {
    return markerFactory;
}
}

```

1.216 slf4j-api 1.7.6

1.217 smack-core 4.0.6

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1.218 smack-tcp 4.0.6

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1.219 snmp4j 1.10.1

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```
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1.240 Syslog4j 0.9.30

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1.244 undertow-core 1.1.0.Final

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```
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 */

package io.undertow.client.http;

import io.undertow.conduits.AbstractFixedLengthStreamSinkConduit;
import org.xnio.conduits.StreamSinkConduit;

class ClientFixedLengthStreamSinkConduit extends AbstractFixedLengthStreamSinkConduit {

    private final HttpClientExchange exchange;

    /**
     * Construct a new instance.
     *
     * @param next the next channel
     * @param contentLength the content length
     * @param configurable {@code true} if this instance should pass configuration to the next
     * @param propagateClose {@code true} if this instance should pass close to the next
     * @param exchange
     */
    public ClientFixedLengthStreamSinkConduit(StreamSinkConduit next, long contentLength, boolean configurable,
boolean propagateClose, HttpClientExchange exchange) {
        super(next, contentLength, configurable, propagateClose);
        this.exchange = exchange;
    }

    @Override
    protected void channelFinished() {
        exchange.terminateRequest();
    }
}
```

```

    }
}
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package io.undertow.conduits;

import org.xnio Buffers;
import org.xnio.channels.FixedLengthOverflowException;
import org.xnio.channels.FixedLengthUnderflowException;
import org.xnio.channels.StreamSourceChannel;
import org.xnio.conduits.AbstractStreamSinkConduit;
import org.xnio.conduits.Conduits;
import org.xnio.conduits.StreamSinkConduit;

import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.channels.ClosedChannelException;
import java.nio.channels.FileChannel;
import java.util.concurrent.TimeUnit;

import static java.lang.Math.min;
import static org.xnio.Bits.allAreClear;
import static org.xnio.Bits.allAreSet;
import static org.xnio.Bits.anyAreSet;
import static org.xnio.Bits.longBitMask;

/**
 * A channel which writes a fixed amount of data. A listener is called once the data has been written.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public abstract class AbstractFixedLengthStreamSinkConduit extends

```

```

AbstractStreamSinkConduit<StreamSinkConduit> {
    private int config;

    private long state;

    private boolean broken = false;

    private static final int CONF_FLAG_CONFIGURABLE = 1 << 0;
    private static final int CONF_FLAG_PASS_CLOSE = 1 << 1;

    private static final long FLAG_CLOSE_REQUESTED = 1L << 63L;
    private static final long FLAG_CLOSE_COMPLETE = 1L << 62L;
    private static final long FLAG_FINISHED_CALLED = 1L << 61L;
    private static final long MASK_COUNT = longBitMask(0, 60);

    /**
     * Construct a new instance.
     *
     * @param next      the next channel
     * @param contentLength the content length
     * @param configurable { @code true } if this instance should pass configuration to the next
     * @param propagateClose { @code true } if this instance should pass close to the next
     */
    public AbstractFixedLengthStreamSinkConduit(final StreamSinkConduit next, final long contentLength, final
boolean configurable, final boolean propagateClose) {
        super(next);
        if (contentLength < 0L) {
            throw new IllegalArgumentException("Content length must be greater than or equal to zero");
        } else if (contentLength > MASK_COUNT) {
            throw new IllegalArgumentException("Content length is too long");
        }
        config = (configurable ? CONF_FLAG_CONFIGURABLE : 0) | (propagateClose ?
CONF_FLAG_PASS_CLOSE : 0);
        this.state = contentLength;
    }

    protected void reset(long contentLength, boolean propagateClose) {
        this.state = contentLength;
        if (propagateClose) {
            config |= CONF_FLAG_PASS_CLOSE;
        } else {
            config &= ~CONF_FLAG_PASS_CLOSE;
        }
    }

    public int write(final ByteBuffer src) throws IOException {
        long val = state;
        final long remaining = val & MASK_COUNT;

```

```

if (!src.hasRemaining()) {
    return 0;
}
if (allAreSet(val, FLAG_CLOSE_REQUESTED)) {
    throw new ClosedChannelException();
}
int oldLimit = src.limit();
if (remaining == 0) {
    throw new FixedLengthOverflowException();
} else if (src.remaining() > remaining) {
    src.limit((int) (src.position() + remaining));
}
int res = 0;
try {
    return res = next.write(src);
} catch (IOException e) {
    broken = true;
    throw e;
} finally {
    src.limit(oldLimit);
    exitWrite(val, (long) res);
}
}

public long write(final ByteBuffer[] srcs, final int offset, final int length) throws IOException {
    if (length == 0) {
        return 0L;
    } else if (length == 1) {
        return write(srcs[offset]);
    }
    long val = state;
    final long remaining = val & MASK_COUNT;
    if (allAreSet(val, FLAG_CLOSE_REQUESTED)) {
        throw new ClosedChannelException();
    }
    long toWrite = Buffers.remaining(srcs, offset, length);
    if (remaining == 0) {
        throw new FixedLengthOverflowException();
    }
    int[] limits = null;
    if (toWrite > remaining) {
        limits = new int[length];
        long r = remaining;
        for (int i = offset; i < offset + length; ++i) {
            limits[i - offset] = srcs[i].limit();
            int br = srcs[i].remaining();
            if (br < r) {
                r -= br;
            }
        }
    }
}

```

```

        } else {
            srcs[i].limit((int) (srcs[i].position() + r));
            r = 0;
        }
    }
}
long res = 0L;
try {
    return res = next.write(srcs, offset, length);
} catch (IOException e) {
    broken = true;
    throw e;
} finally {
    if (limits != null) {
        for (int i = offset; i < offset + length; ++i) {
            srcs[i].limit(limits[i - offset]);
        }
    }
    exitWrite(val, res);
}
}

```

@Override

```

public long writeFinal(ByteBuffer[] srcs, int offset, int length) throws IOException {
    try {
        return Conduits.writeFinalBasic(this, srcs, offset, length);
    } catch (IOException e) {
        broken = true;
        throw e;
    }
}

```

@Override

```

public int writeFinal(ByteBuffer src) throws IOException {
    try {
        return Conduits.writeFinalBasic(this, src);
    } catch (IOException e) {
        broken = true;
        throw e;
    }
}

```

```

public long transferFrom(final FileChannel src, final long position, final long count) throws IOException {
    if (count == 0L) return 0L;
    long val = state;
    if (allAreSet(val, FLAG_CLOSE_REQUESTED)) {
        throw new ClosedChannelException();
    }
}

```



```

if (allAreClear(val, MASK_COUNT)) {
    throw new FixedLengthOverflowException();
}
long res = 0L;
try {
    return res = next.transferFrom(src, position, min(count, (val & MASK_COUNT)));
} catch (IOException e) {
    broken = true;
    throw e;
} finally {
    exitWrite(val, res);
}
}

public long transferFrom(final StreamSourceChannel source, final long count, final ByteBuffer throughBuffer)
throws IOException {
    if (count == 0L) return 0L;
    long val = state;
    if (allAreSet(val, FLAG_CLOSE_REQUESTED)) {
        throw new ClosedChannelException();
    }
    if (allAreClear(val, MASK_COUNT)) {
        throw new FixedLengthOverflowException();
    }
    long res = 0L;
    try {
        return res = next.transferFrom(source, min(count, (val & MASK_COUNT)), throughBuffer);
    } catch (IOException e) {
        broken = true;
        throw e;
    } finally {
        exitWrite(val, res);
    }
}

public boolean flush() throws IOException {
    long val = state;
    if (anyAreSet(val, FLAG_CLOSE_COMPLETE)) {
        return true;
    }
    boolean flushed = false;
    try {
        return flushed = next.flush();
    } catch (IOException e) {
        broken = true;
        throw e;
    } finally {
        exitFlush(val, flushed);
    }
}

```

```

    }
}

public boolean isWriteResumed() {
    // not perfect but not provably wrong either...
    return allAreClear(state, FLAG_CLOSE_COMPLETE) && next.isWriteResumed();
}

public void wakeupWrites() {
    long val = state;
    if (anyAreSet(val, FLAG_CLOSE_COMPLETE)) {
        return;
    }
    next.wakeupWrites();
}

public void terminateWrites() throws IOException {
    final long val = enterShutdown();
    if (anyAreSet(val, MASK_COUNT) && !broken) {
        try {
            throw new FixedLengthUnderflowException((val & MASK_COUNT) + " bytes remaining");
        } finally {
            next.truncateWrites();
        }
    } else if (allAreSet(config, CONF_FLAG_PASS_CLOSE)) {
        next.terminateWrites();
    }
}

public void awaitWritable() throws IOException {
    next.awaitWritable();
}

public void awaitWritable(final long time, final TimeUnit timeUnit) throws IOException {
    next.awaitWritable(time, timeUnit);
}

/**
 * Get the number of remaining bytes in this fixed length channel.
 *
 * @return the number of remaining bytes
 */
public long getRemaining() {
    return state & MASK_COUNT;
}

```

```

private void exitWrite(long oldVal, long consumed) {
    long newVal = oldVal - consumed;
    state = newVal;
}

private void exitFlush(long oldVal, boolean flushed) {
    long newVal = oldVal;
    boolean callFinish = false;
    if ((anyAreSet(oldVal, FLAG_CLOSE_REQUESTED) || (newVal & MASK_COUNT) == 0L) && flushed) {
        newVal |= FLAG_CLOSE_COMPLETE;

        if (!anyAreSet(oldVal, FLAG_FINISHED_CALLED) && (newVal & MASK_COUNT) == 0L) {
            newVal |= FLAG_FINISHED_CALLED;
            callFinish = true;
        }
        state = newVal;
        if (callFinish) {
            channelFinished();
        }
    }
}

protected void channelFinished() {
}

private long enterShutdown() {
    long oldVal, newVal;
    oldVal = state;
    if (anyAreSet(oldVal, FLAG_CLOSE_REQUESTED | FLAG_CLOSE_COMPLETE)) {
        // no action necessary
        return oldVal;
    }
    newVal = oldVal | FLAG_CLOSE_REQUESTED;
    if (anyAreSet(oldVal, MASK_COUNT)) {
        // error: channel not filled. set both close flags.
        newVal |= FLAG_CLOSE_COMPLETE;
    }
    state = newVal;
    return oldVal;
}

}
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- */

```
package io.undertow.conduits;
```

```
import io.undertow.UndertowMessages;
import io.undertow.server.Connectors;
import io.undertow.server.HttpServerExchange;
import org.xnio.channels.StreamSinkChannel;
import org.xnio.conduits.AbstractStreamSourceConduit;
import org.xnio.conduits.StreamSourceConduit;
```

```
import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.channels.FileChannel;
import java.util.concurrent.TimeUnit;
```

```
import static java.lang.Math.min;
import static org.xnio.Bits.allAreClear;
import static org.xnio.Bits.allAreSet;
import static org.xnio.Bits.anyAreClear;
import static org.xnio.Bits.anyAreSet;
import static org.xnio.Bits.longBitMask;
```

```
/**
```

```
* A channel which reads data of a fixed length and calls a finish listener. When the finish listener is called,
* it should examine the result of {@link #getRemaining()} to see if more bytes were pending when the channel was
* closed.
```

```
*
```

```
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
```

```
*/
```

```
/*
```

```
* Implementation notes
```

```
* -----
```

```
* The {@code exhausted} flag is set once a method returns -1 and signifies that the read listener should no longer be
* called. The {@code finishListener} is called when remaining is reduced to 0 or when the channel is closed
* explicitly.
```

```
* If there are 0 remaining bytes but {@code FLAG_FINISHED} has not yet been set, the channel is considered
"ready" until
```

```

* the EOF -1 value is read or the channel is closed. Since this is a half-duplex channel, shutting down reads is
* identical to closing the channel.
*/
public final class FixedLengthStreamSourceConduit extends AbstractStreamSourceConduit<StreamSourceConduit>
{

    private final ConduitListener<? super FixedLengthStreamSourceConduit> finishListener;

    @SuppressWarnings("unused")
    private long state;

    private static final long FLAG_CLOSED = 1L << 63L;
    private static final long FLAG_FINISHED = 1L << 62L;
    private static final long FLAG_LENGTH_CHECKED = 1L << 61L;
    private static final long MASK_COUNT = longBitMask(0, 60);

    private final HttpServerExchange exchange;

    /**
     * Construct a new instance. The given listener is called once all the bytes are read from the stream
     * <b>or</b> the stream is closed. This listener should cause the remaining data to be drained from the
     * underlying stream if the underlying stream is to be reused.
     * <p/>
     * Calling this constructor will replace the read listener of the underlying channel. The listener should be
     * restored from the { @code finishListener} object. The underlying stream should not be closed while this
     wrapper
     * stream is active.
     *
     * @param next      the stream source channel to read from
     * @param contentLength the amount of content to read
     * @param finishListener the listener to call once the stream is exhausted or closed
     * @param exchange   The server exchange. This is used to determine the max size
     */
    public FixedLengthStreamSourceConduit(final StreamSourceConduit next, final long contentLength, final
    ConduitListener<? super FixedLengthStreamSourceConduit> finishListener, final HttpServerExchange exchange) {
        super(next);
        this.finishListener = finishListener;
        if (contentLength < 0L) {
            throw new IllegalArgumentException("Content length must be greater than or equal to zero");
        } else if (contentLength > MASK_COUNT) {
            throw new IllegalArgumentException("Content length is too long");
        }
        state = contentLength;
        this.exchange = exchange;
    }

    /**
     * Construct a new instance. The given listener is called once all the bytes are read from the stream

```

```

* <b>or</b> the stream is closed. This listener should cause the remaining data to be drained from the
* underlying stream if the underlying stream is to be reused.
* <p/>
* Calling this constructor will replace the read listener of the underlying channel. The listener should be
* restored from the {@code finishListener} object. The underlying stream should not be closed while this
wrapper
* stream is active.
*
* @param next      the stream source channel to read from
* @param contentLength the amount of content to read
* @param finishListener the listener to call once the stream is exhausted or closed
*/
public FixedLengthStreamSourceConduit(final StreamSourceConduit next, final long contentLength, final
ConduitListener<? super FixedLengthStreamSourceConduit> finishListener) {
    this(next, contentLength, finishListener, null);
}

public long transferTo(final long position, final long count, final FileChannel target) throws IOException {
    long val = state;
    checkMaxSize(val);
    if (anyAreSet(val, FLAG_CLOSED | FLAG_FINISHED) || allAreClear(val, MASK_COUNT)) {
        if (allAreClear(val, FLAG_FINISHED)) {
            invokeFinishListener();
        }
        return -1L;
    }
    long res = 0L;
    try {
        return res = next.transferTo(position, min(count, val & MASK_COUNT), target);
    } finally {
        exitRead(res);
    }
}

public long transferTo(final long count, final ByteBuffer throughBuffer, final StreamSinkChannel target) throws
IOException {
    if (count == 0L) {
        return 0L;
    }
    long val = state;
    checkMaxSize(val);
    if (anyAreSet(val, FLAG_CLOSED | FLAG_FINISHED) || allAreClear(val, MASK_COUNT)) {
        if (allAreClear(val, FLAG_FINISHED)) {
            invokeFinishListener();
        }
        return -1;
    }
    long res = 0L;

```

```

try {
    return res = next.transferTo(min(count, val & MASK_COUNT), throughBuffer, target);
} finally {
    exitRead(res == -1L ? val & MASK_COUNT : res + throughBuffer.remaining());
}
}

private void checkMaxSize(long state) throws IOException {
    if (anyAreClear(state, FLAG_LENGTH_CHECKED)) {
        HttpServerExchange exchange = this.exchange;
        if (exchange != null) {
            if (exchange.getMaxEntitySize() > 0 && exchange.getMaxEntitySize() < (state & MASK_COUNT)) {
                //max entity size is exceeded
                //we need to forcibly close the read side
                Connectors.terminateRequest(exchange);
                exchange.setPersistent(false);
                finishListener.handleEvent(this);
                this.state |= FLAG_FINISHED | FLAG_CLOSED;
                throw UndertowMessages.MESSAGES.requestEntityWasTooLarge(exchange.getMaxEntitySize());
            }
        }
        this.state |= FLAG_LENGTH_CHECKED;
    }
}

public long read(final ByteBuffer[] dsts, final int offset, final int length) throws IOException {
    if (length == 0) {
        return 0L;
    } else if (length == 1) {
        return read(dsts[offset]);
    }
    long val = state;
    checkMaxSize(val);
    if (allAreSet(val, FLAG_CLOSED) || allAreClear(val, MASK_COUNT)) {
        if (allAreClear(val, FLAG_FINISHED)) {
            invokeFinishListener();
        }
        return -1;
    }
    long res = 0L;
    try {
        if ((val & MASK_COUNT) == 0L) {
            return -1L;
        }
        int lim;
        // The total amount of buffer space discovered so far.
        long t = 0L;
        for (int i = 0; i < length; i++) {

```

```

    final ByteBuffer buffer = dsts[i + offset];
    // Grow the discovered buffer space by the remaining size of the current buffer.
    // We want to capture the limit so we calculate "remaining" ourselves.
    t += (lim = buffer.limit()) - buffer.position();
    if (t > (val & MASK_COUNT)) {
        // only read up to this point, and trim the last buffer by the number of extra bytes
        buffer.limit(lim - (int) (t - (val & MASK_COUNT)));
        try {
            return res = next.read(dsts, offset, i + 1);
        } finally {
            // restore the original limit
            buffer.limit(lim);
        }
    }
}
// the total buffer space is less than the remaining count.
return res = next.read(dsts, offset, length);
} finally {
    exitRead(res == -1L ? val & MASK_COUNT : res);
}
}

```

```

public long read(final ByteBuffer[] dsts) throws IOException {
    return read(dsts, 0, dsts.length);
}

```

```

public int read(final ByteBuffer dst) throws IOException {
    long val = state;
    checkMaxSize(val);
    if (allAreSet(val, FLAG_CLOSED) || allAreClear(val, MASK_COUNT)) {
        if (allAreClear(val, FLAG_FINISHED)) {
            invokeFinishListener();
        }
        return -1;
    }
    int res = 0;
    final long remaining = val & MASK_COUNT;
    try {
        final int lim = dst.limit();
        final int pos = dst.position();
        if (lim - pos > remaining) {
            dst.limit((int) (remaining + (long) pos));
            try {
                return res = next.read(dst);
            } finally {
                dst.limit(lim);
            }
        } else {

```



```

        return res = next.read(dst);
    }
} finally {
    exitRead(res == -1 ? remaining : (long) res);
}
}

public boolean isReadResumed() {
    return allAreClear(state, FLAG_CLOSED) && next.isReadResumed();
}

public void wakeupReads() {
    long val = state;
    if (anyAreSet(val, FLAG_CLOSED | FLAG_FINISHED) || allAreClear(val, MASK_COUNT)) {
        return;
    }
    next.wakeupReads();
}

@Override
public void terminateReads() throws IOException {
    long val = enterShutdownReads();
    if (allAreSet(val, FLAG_CLOSED)) {
        return;
    }
    exitShutdownReads(val);
}

public void awaitReadable() throws IOException {
    final long val = state;
    if (allAreSet(val, FLAG_CLOSED) || val == 0L) {
        return;
    }
    next.awaitReadable();
}

public void awaitReadable(final long time, final TimeUnit timeUnit) throws IOException {
    final long val = state;
    if (allAreSet(val, FLAG_CLOSED) || val == 0L) {
        return;
    }
    next.awaitReadable(time, timeUnit);
}

/**
 * Get the number of remaining bytes.
 *
 * @return the number of remaining bytes

```

```

*/
public long getRemaining() {
    return state & MASK_COUNT;
}

private long enterShutdownReads() {
    long oldVal, newVal;
    oldVal = state;
    if (anyAreSet(oldVal, FLAG_CLOSED)) {
        return oldVal;
    }
    newVal = oldVal | FLAG_CLOSED;
    state = newVal;
    return oldVal;
}

private void exitShutdownReads(long oldVal) {
    if (!allAreClear(oldVal, MASK_COUNT)) {
        invokeFinishListener();
    }
}

/**
 * Exit a read method.
 *
 * @param consumed the number of bytes consumed by this call (may be 0)
 */
private void exitRead(long consumed) {
    long oldVal = state;
    long newVal = oldVal - consumed;
    state = newVal;
    if (anyAreSet(oldVal, MASK_COUNT) && allAreClear(newVal, MASK_COUNT)) {
        invokeFinishListener();
    }
}

private void invokeFinishListener() {
    this.state |= FLAG_FINISHED;
    finishListener.handleEvent(this);
}

}

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```

```

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*/

```

```
package io.undertow.io;
```

```
import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.channels.FileChannel;
import java.nio.charset.Charset;
```

```
import io.undertow.UndertowMessages;
import io.undertow.server.HttpServerExchange;
import org.xnio Buffers;
import org.xnio.ChannelExceptionHandler;
import org.xnio.ChannelListener;
import org.xnio.ChannelListeners;
import org.xnio.IoUtils;
import org.xnio.Pooled;
import org.xnio.channels.StreamSinkChannel;
```

```
/**
```

```
 * @author Stuart Douglas
```

```
*/
```

```
public class AsyncSenderImpl implements Sender {
```

```
    private static final Charset utf8 = Charset.forName("UTF-8");
```

```
    private StreamSinkChannel channel;
    private final HttpServerExchange exchange;
    private ByteBuffer[] buffer;
    private Pooled[] pooledBuffers = null;
    private FileChannel fileChannel;
    private IoCallback callback;
    private boolean inCallback;
```

```
    private final ChannelListener<StreamSinkChannel> writeListener = new ChannelListener<StreamSinkChannel>()
    {
```

```
        @Override
```

```
        public void handleEvent(final StreamSinkChannel streamSinkChannel) {
```

```

try {
    long toWrite = Buffers.remaining(buffer);
    long written = 0;
    while (written < toWrite) {
        long res = streamSinkChannel.write(buffer, 0, buffer.length);
        written += res;
        if (res == 0) {
            return;
        }
    }
    streamSinkChannel.suspendWrites();
    invokeOnComplete();
} catch (IOException e) {
    streamSinkChannel.suspendWrites();
    invokeOnException(callback, e);
}
}
};

public class TransferTask implements Runnable, ChannelListener<StreamSinkChannel> {
    public boolean run(boolean complete) {
        try {
            FileChannel source = fileChannel;
            long pos = source.position();
            long size = source.size();

            StreamSinkChannel dest = channel;
            if (dest == null) {
                if (callback == IoCallback.END_EXCHANGE) {
                    if (exchange.getResponseContentLength() == -1) {
                        exchange.setResponseContentLength(size);
                    }
                }
                channel = dest = exchange.getResponseChannel();
                if (dest == null) {
                    throw UndertowMessages.MESSAGES.responseChannelAlreadyProvided();
                }
            }

            while (size - pos > 0) {
                long ret = dest.transferFrom(source, pos, size - pos);
                pos += ret;
                if (ret == 0) {
                    source.position(pos);
                    dest.getWriter().set(this);
                    dest.resumeWrites();
                    return false;
                }
            }
        }
    }
}

```

```

    }

    if (complete) {
        invokeOnComplete();
    }
} catch (IOException e) {
    invokeOnException(callback, e);
}

return true;
}

@Override
public void handleEvent(StreamSinkChannel channel) {
    channel.suspendWrites();
    channel.getWriter().set(null);
    exchange.dispatch(this);
}

@Override
public void run() {
    run(true);
}
}

private final TransferTask transferTask = new TransferTask();

public AsyncSenderImpl(final HttpServerExchange exchange) {
    this.exchange = exchange;
}

@Override
public void send(final ByteBuffer buffer, final IoCallback callback) {
    if (callback == null) {
        throw UndertowMessages.MESSAGES.argumentCannotBeNull("callback");
    }
    if (this.buffer != null || this.fileChannel != null) {
        throw UndertowMessages.MESSAGES.dataAlreadyQueued();
    }
    StreamSinkChannel channel = this.channel;
    if (channel == null) {
        if (callback == IoCallback.END_EXCHANGE) {
            if (exchange.getResponseContentLength() == -1) {
                exchange.setResponseContentLength(buffer.remaining());
            }
        }
    }
}

```

```

        this.channel = channel = exchange.getResponseChannel();
        if (channel == null) {
            throw UndertowMessages.MESSAGES.responseChannelAlreadyProvided();
        }
    }
    this.callback = callback;
    if (inCallback) {
        this.buffer = new ByteBuffer[]{buffer};
        return;
    }
    try {
        do {
            if (buffer.remaining() == 0) {
                callback.onComplete(exchange, this);
                return;
            }
            int res = channel.write(buffer);
            if (res == 0) {
                this.buffer = new ByteBuffer[]{buffer};
                this.callback = callback;
                channel.getWriteSetter().set(writeListener);
                channel.resumeWrites();
                return;
            }
        } while (buffer.hasRemaining());
        invokeOnComplete();
    } catch (IOException e) {
        invokeOnException(callback, e);
    }
}

```

@Override

```

public void send(final ByteBuffer[] buffer, final IoCallback callback) {
    if (callback == null) {
        throw UndertowMessages.MESSAGES.argumentCannotBeNull("callback");
    }
    if (this.buffer != null) {
        throw UndertowMessages.MESSAGES.dataAlreadyQueued();
    }
    this.callback = callback;
    if (inCallback) {
        this.buffer = buffer;
        return;
    }
}

```

```

    long totalToWrite = Buffers.remaining(buffer);

```

```

StreamSinkChannel channel = this.channel;
if (channel == null) {
    if (callback == IoCallback.END_EXCHANGE) {
        if (exchange.getResponseContentLength() == -1) {
            exchange.setResponseContentLength(totalToWrite);
        }
    }
    this.channel = channel = exchange.getResponseChannel();
    if (channel == null) {
        throw UndertowMessages.MESSAGES.responseChannelAlreadyProvided();
    }
}

final long total = totalToWrite;
long written = 0;

try {
    do {
        long res = channel.write(buffer);
        written += res;
        if (res == 0) {
            this.buffer = buffer;
            this.callback = callback;
            channel.getWriteSetter().set(writeListener);
            channel.resumeWrites();
            return;
        }
    } while (written < total);
    invokeOnComplete();

} catch (IOException e) {
    invokeOnException(callback, e);
}
}

```

@Override

```

public void transferFrom(FileChannel source, IoCallback callback) {
    if (callback == null) {
        throw UndertowMessages.MESSAGES.argumentCannotBeNull("callback");
    }
    if (this.fileChannel != null || this.buffer != null) {
        throw UndertowMessages.MESSAGES.dataAlreadyQueued();
    }

    this.callback = callback;
    this.fileChannel = source;
}

```

```

    if (inCallback) {
        return;
    }

    if (exchange.isInIoThread()) {
        exchange.dispatch(transferTask);
        return;
    }

    transferTask.run();
}

@Override
public void send(final ByteBuffer buffer) {
    send(buffer, IoCallback.END_EXCHANGE);
}

@Override
public void send(final ByteBuffer[] buffer) {
    send(buffer, IoCallback.END_EXCHANGE);
}

@Override
public void send(final String data, final IoCallback callback) {
    send(data, utf8, callback);
}

@Override
public void send(final String data, final Charset charset, final IoCallback callback) {
    ByteBuffer bytes = ByteBuffer.wrap(data.getBytes(charset));
    if (bytes.remaining() == 0) {
        callback.onComplete(exchange, this);
    } else {
        int i = 0;
        ByteBuffer[] bufs = null;
        while (bytes.hasRemaining()) {
            Pooled<ByteBuffer> pooled = exchange.getConnection().getBufferPool().allocate();
            if (bufs == null) {
                int noBufs = (bytes.remaining() + pooled.getResource().remaining() - 1) /
pooled.getResource().remaining(); //round up division trick
                pooledBuffers = new Pooled[noBufs];
                bufs = new ByteBuffer[noBufs];
            }
            pooledBuffers[i] = pooled;
            bufs[i] = pooled.getResource();
            Buffers.copy(pooled.getResource(), bytes);
            pooled.getResource().flip();
            ++i;
        }
    }
}

```



```

    }
    send(bufs, callback);
}
}

@Override
public void send(final String data) {
    send(data, IoCallback.END_EXCHANGE);
}

@Override
public void send(final String data, final Charset charset) {
    send(data, charset, IoCallback.END_EXCHANGE);
}

@Override
public void close(final IoCallback callback) {
    try {
        StreamSinkChannel channel = this.channel;
        if (channel == null) {
            if (exchange.getResponseContentLength() == -1) {
                exchange.setResponseContentLength(0);
            }
            this.channel = channel = exchange.getResponseChannel();
            if (channel == null) {
                throw UndertowMessages.MESSAGES.responseChannelAlreadyProvided();
            }
        }
        channel.shutdownWrites();
        if (!channel.flush()) {
            channel.getWriter().set(ChannelListeners.flushingChannelListener(
                new ChannelListener<StreamSinkChannel>() {
                    @Override
                    public void handleEvent(final StreamSinkChannel channel) {
                        if (callback != null) {
                            callback.onComplete(exchange, AsyncSenderImpl.this);
                        }
                    }
                }
            ), new ChannelExceptionHandler<StreamSinkChannel>() {
                @Override
                public void handleException(final StreamSinkChannel channel, final IOException exception) {
                    try {
                        if (callback != null) {
                            invokeOnException(callback, exception);
                        }
                    } finally {
                        IoUtils.safeClose(channel);
                    }
                }
            }
        )
    }
}

```

```

        }
    }
    ));
    channel.resumeWrites();
} else {
    if (callback != null) {
        callback.onComplete(exchange, this);
    }
}
} catch (IOException e) {
    if (callback != null) {
        invokeOnException(callback, e);
    }
}
}

@Override
public void close() {
    close(null);
}

/**
 * Invokes the onComplete method. If send is called again in onComplete then
 * we loop and write it out. This prevents possible stack overflows due to recursion
 */
private void invokeOnComplete() {
    for (; ; ) {
        if (pooledBuffers != null) {
            for (Pooled buffer : pooledBuffers) {
                buffer.free();
            }
            pooledBuffers = null;
        }
        IoCallback callback = this.callback;
        this.buffer = null;
        this.fileChannel = null;
        this.callback = null;
        inCallback = true;
        try {
            callback.onComplete(exchange, this);
        } finally {
            inCallback = false;
        }

        StreamSinkChannel channel = this.channel;
        if (this.buffer != null) {
            long t = Buffers.remaining(buffer);
            final long total = t;

```

```

    long written = 0;

    try {
        do {
            long res = channel.write(buffer);
            written += res;
            if (res == 0) {
                channel.getWriteSetter().set(writeListener);
                channel.resumeWrites();
                return;
            }
        } while (written < total);
        //we loop and invoke onComplete again
    } catch (IOException e) {
        invokeOnException(callback, e);
    }
} else if (this.fileChannel != null) {
    if (!transferTask.run(false)) {
        return;
    }
} else {
    return;
}
}
}

private void invokeOnException( IoCallback callback, IOException e) {

    if (pooledBuffers != null) {
        for (Pooled buffer : pooledBuffers) {
            buffer.free();
        }
        pooledBuffers = null;
    }
    callback.onException(exchange, this, e);
}
}
/*
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 *

```

```

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*/

```

```
package io.undertow.io;
```

```

import java.io.EOFException;
import java.io.IOException;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.channels.FileChannel;
import java.nio.charset.Charset;

```

```

import io.undertow.UndertowMessages;
import io.undertow.server.HttpServerExchange;
import org.xnio.IoUtils;

```

```

/**
 * A sender that uses an output stream.
 *
 * @author Stuart Douglas
 */

```

```
public class BlockingSenderImpl implements Sender {
```

```
    private static final Charset utf8 = Charset.forName("UTF-8");
```

```
    /**
```

```
     * TODO: we should be used pooled buffers
```

```
     */
```

```
    public static final int BUFFER_SIZE = 128;
```

```
    private final HttpServerExchange exchange;
```

```
    private final OutputStream outputStream;
```

```
    private boolean inCall;
```

```
    private ByteBuffer[] next;
```

```
    private FileChannel pendingFile;
```

```
    private IoCallback queuedCallback;
```

```
    public BlockingSenderImpl(final HttpServerExchange exchange, final OutputStream outputStream) {
```

```
        this.exchange = exchange;
```

```
        this.outputStream = outputStream;
```

```
    }
```

```
    @Override
```

```

public void send(final ByteBuffer buffer, final IoCallback callback) {
    if (inCall) {
        queue(new ByteBuffer[]{buffer}, callback);
        return;
    }
    if (writeBuffer(buffer, callback)) {
        invokeOnComplete(callback);
    }
}

```

@Override

```

public void send(final ByteBuffer[] buffer, final IoCallback callback) {
    if (inCall) {
        queue(buffer, callback);
        return;
    }
    if (!writeBuffer(buffer, callback)) {
        return;
    }
    invokeOnComplete(callback);
}

```

@Override

```

public void send(final ByteBuffer buffer) {
    send(buffer, IoCallback.END_EXCHANGE);
}

```

@Override

```

public void send(final ByteBuffer[] buffer) {
    send(buffer, IoCallback.END_EXCHANGE);
}

```

@Override

```

public void send(final String data, final IoCallback callback) {
    if (inCall) {
        queue(new ByteBuffer[]{ByteBuffer.wrap(data.getBytes(utf8))}, callback);
        return;
    }
    try {
        outputStream.write(data.getBytes(utf8));
        invokeOnComplete(callback);
    } catch (IOException e) {
        callback.onException(exchange, this, e);
    }
}

```

@Override

```

public void send(final String data, final Charset charset, final IoCallback callback) {
    if (inCall) {
        queue(new ByteBuffer[]{ByteBuffer.wrap(data.getBytes(charset))}, callback);
        return;
    }
    try {
        outputStream.write(data.getBytes(charset));
        invokeOnComplete(callback);
    } catch (IOException e) {
        callback.onException(exchange, this, e);
    }
}

```

```

@Override
public void send(final String data) {
    send(data, IoCallback.END_EXCHANGE);
}

```

```

@Override
public void send(final String data, final Charset charset) {
    send(data, charset, IoCallback.END_EXCHANGE);
}

```

```

@Override
public void transferFrom(FileChannel source, IoCallback callback) {
    if (inCall) {
        queue(source, callback);
        return;
    }
    performTransfer(source, callback);
    invokeOnComplete(callback);
}

```

```

private void performTransfer(FileChannel source, IoCallback callback) {
    if (outputStream instanceof BufferWritableOutputStream) {
        try {
            ((BufferWritableOutputStream) outputStream).transferFrom(source);
        } catch (IOException e) {
            callback.onException(exchange, this, e);
        }
    } else {
        ByteBuffer buffer = ByteBuffer.allocate(BUFFER_SIZE);
        try {
            long pos = source.position();
            long size = source.size();
            while (size - pos > 0) {
                int ret = source.read(buffer);
                if (ret <= 0) {

```

```

        break;
    }
    pos += ret;
    outputStream.write(buffer.array(), buffer.arrayOffset(), ret);
    buffer.clear();
}

if (pos != size) {
    throw new EOFException("Unexpected EOF reading file");
}

} catch (IOException e) {
    callback.onException(exchange, this, e);
}
}
}

@Override
public void close(final IoCallback callback) {
    try {
        outputStream.close();
        invokeOnComplete(callback);
    } catch (IOException e) {
        callback.onException(exchange, this, e);
    }
}

@Override
public void close() {
    IoUtils.safeClose(outputStream);
}

private boolean writeBuffer(final ByteBuffer buffer, final IoCallback callback) {
    return writeBuffer(new ByteBuffer[]{buffer}, callback);
}

private boolean writeBuffer(final ByteBuffer[] buffers, final IoCallback callback) {
    if (outputStream instanceof BufferWritableOutputStream) {
        //fast path, if the stream can take a buffer directly just write to it
        try {
            ((BufferWritableOutputStream) outputStream).write(buffers);
            return true;
        } catch (IOException e) {
            callback.onException(exchange, this, e);
            return false;
        }
    }
    for (ByteBuffer buffer : buffers) {

```

```

if (buffer.hasArray()) {
    try {
        outputStream.write(buffer.array(), buffer.arrayOffset(), buffer.remaining());
    } catch (IOException e) {
        callback.onException(exchange, this, e);
        return false;
    }
} else {
    byte[] b = new byte[BUFFER_SIZE];
    while (buffer.hasRemaining()) {
        int toRead = Math.min(buffer.remaining(), BUFFER_SIZE);
        buffer.get(b, 0, toRead);
        try {
            outputStream.write(b, 0, toRead);
        } catch (IOException e) {
            callback.onException(exchange, this, e);
            return false;
        }
    }
}
return true;
}

```

```

private void invokeOnComplete(final IoCallback callback) {
    inCall = true;
    try {
        callback.onComplete(exchange, this);
    } finally {
        inCall = false;
    }
    while (next != null || pendingFile != null) {
        ByteBuffer[] next = this.next;
        IoCallback queuedCallback = this.queuedCallback;
        FileChannel file = this.pendingFile;
        this.next = null;
        this.queuedCallback = null;
        this.pendingFile = null;

        if (next != null) {
            for (ByteBuffer buffer : next) {
                writeBuffer(buffer, queuedCallback);
            }
        } else if (file != null) {
            performTransfer(file, queuedCallback);
        }
    }
    inCall = true;
}

```



```

    try {
        queuedCallback.onComplete(exchange, this);
    } finally {
        inCall = false;
    }
}
}

private void queue(final ByteBuffer[] byteBuffers, final IoCallback ioCallback) {
    //if data is sent from within the callback we queue it, to prevent the stack growing indefinitely
    if (next != null) {
        throw UndertowMessages.MESSAGES.dataAlreadyQueued();
    }
    next = byteBuffers;
    queuedCallback = ioCallback;
}

private void queue(final FileChannel source, final IoCallback ioCallback) {
    //if data is sent from within the callback we queue it, to prevent the stack growing indefinitely
    if (pendingFile != null) {
        throw UndertowMessages.MESSAGES.dataAlreadyQueued();
    }
    pendingFile = source;
    queuedCallback = ioCallback;
}

}
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 */

package io.undertow.predicate;

import java.util.HashMap;

```

```

import java.util.HashSet;
import java.util.Map;
import java.util.Set;

import io.undertow.attribute.ExchangeAttribute;
import io.undertow.attribute.ExchangeAttributes;
import io.undertow.server.HttpServerExchange;
import io.undertow.util.PathTemplate;

/**
 * @author Stuart Douglas
 */
public class PathTemplatePredicate implements Predicate {

    private final ExchangeAttribute attribute;
    private final PathTemplate value;

    public PathTemplatePredicate(final String template, final ExchangeAttribute attribute) {
        this.attribute = attribute;
        this.value = PathTemplate.create(template);
    }

    @Override
    public boolean resolve(final HttpServerExchange exchange) {
        final Map<String, String> params = new HashMap<>();
        boolean result = this.value.matches(attribute.readAttribute(exchange), params);
        if (result) {
            Map<String, Object> context = exchange.getAttachment(PREDICATE_CONTEXT);
            if (context != null) {
                context.putAll(params);
            }
        }
        return result;
    }

    public static class Builder implements PredicateBuilder {

        @Override
        public String name() {
            return "path-template";
        }

        @Override
        public Map<String, Class<?>> parameters() {
            final Map<String, Class<?>> params = new HashMap<>();
            params.put("value", String.class);
            params.put("match", ExchangeAttribute.class);
            return params;
        }
    }
}

```

```

    }

    @Override
    public Set<String> requiredParameters() {
        final Set<String> params = new HashSet<>();
        params.add("value");
        return params;
    }

    @Override
    public String defaultParameter() {
        return "value";
    }

    @Override
    public Predicate build(final Map<String, Object> config) {
        ExchangeAttribute match = (ExchangeAttribute) config.get("match");
        if (match == null) {
            match = ExchangeAttributes.relativePath();
        }
        String value = (String) config.get("value");
        return new PathTemplatePredicate(value, match);
    }
}

}
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 */

package io.undertow.protocols.spdy;

import org.xnio.Pool;

```

```

import java.nio.ByteBuffer;
import java.util.zip.Inflater;

/**
 * Parser for SPDY syn reply frames.
 *
 * @author Stuart Douglas
 */
class SpdySynReplyParser extends SpdyHeaderBlockParser {

    public SpdySynReplyParser(Pool<ByteBuffer> bufferPool, SpdyChannel channel, int frameLength, Inflater
inflater) {
        super(bufferPool, channel, frameLength, inflater);
    }

    @Override
    protected boolean handleBeforeHeader(ByteBuffer resource) {
        if (resource.remaining() < 4) {
            return false;
        }
        streamId = SpdyProtocolUtils.readInt(resource);
        return true;
    }
}

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 */

package io.undertow.protocols.spdy;

import io.undertow.server.protocol.framed.SendFrameHeader;
import io.undertow.util.HeaderMap;
import io.undertow.util.Headers;
import io.undertow.util.ImmediatePooled;

```

```

import org.xnio.ChannelListener;
import org.xnio.ChannelListeners;
import org.xnio.Pooled;

import java.nio.ByteBuffer;
import java.util.zip.Deflater;

/**
 * @author Stuart Douglas
 */
public class SpdySynReplyStreamSinkChannel extends SpdyStreamSinkChannel {

    private final HeaderMap headers = new HeaderMap();

    private boolean first = true;
    private final Deflater deflater;
    private ChannelListener<SpdySynReplyStreamSinkChannel> completionListener;

    SpdySynReplyStreamSinkChannel(SpdyChannel channel, int streamId, Deflater deflater) {
        super(channel, streamId);
        this.deflater = deflater;
    }

    @Override
    protected SendFrameHeader createFrameHeaderImpl() {
        final int fcWindow = grabFlowControlBytes(getBuffer().remaining());
        if (fcWindow == 0 && getBuffer().hasRemaining()) {
            //flow control window is exhausted
            return new SendFrameHeader(getBuffer().remaining(), null);
        }
        final boolean finalFrame = isWritesShutdown() && fcWindow >= getBuffer().remaining();
        Pooled<ByteBuffer> firstHeaderBuffer = getChannel().getBufferPool().allocate();
        Pooled<ByteBuffer>[] allHeaderBuffers = null;
        ByteBuffer firstBuffer = firstHeaderBuffer.getResource();
        boolean firstFrame = false;
        if (first) {
            firstFrame = true;
            first = false;
            int firstInt = SpdyChannel.CONTROL_FRAME | (getChannel().getSpdyVersion() << 16) | 2;
            SpdyProtocolUtils.putInt(firstBuffer, firstInt);
            SpdyProtocolUtils.putInt(firstBuffer, 0); //we back fill the length
            HeaderMap headers = this.headers;

            SpdyProtocolUtils.putInt(firstBuffer, getStreamId());

            headers.remove(Headers.CONNECTION); //todo: should this be here?
        }
    }

```

```

headers.remove(Headers.KEEP_ALIVE);
headers.remove(Headers.TRANSFER_ENCODING);

allHeaderBuffers = createHeaderBlock(firstHeaderBuffer, allHeaderBuffers, firstBuffer, headers);
}

Pooled<ByteBuffer> currentPooled = allHeaderBuffers == null ? firstHeaderBuffer :
allHeaderBuffers[allHeaderBuffers.length - 1];
ByteBuffer currentBuffer = currentPooled.getResource();
int remainingInBuffer = 0;
if (getBuffer().remaining() > 0) {
    if (fcWindow > 0) {
        //make sure we have room in the header buffer
        if(currentBuffer.remaining() < 8) {
            allHeaderBuffers = allocateAll(allHeaderBuffers, currentPooled);
            currentPooled = allHeaderBuffers == null ? firstHeaderBuffer :
allHeaderBuffers[allHeaderBuffers.length - 1];
            currentBuffer = currentPooled.getResource();
        }
        remainingInBuffer = getBuffer().remaining() - fcWindow;
        getBuffer().limit(getBuffer().position() + fcWindow);
        SpdyProtocolUtils.putInt(currentBuffer, getStreamId());
        SpdyProtocolUtils.putInt(currentBuffer, ((finalFrame ? SpdyChannel.FLAG_FIN : 0) << 24) +
fcWindow);
    } else {
        remainingInBuffer = getBuffer().remaining();
    }
} else if(finalFrame && !firstFrame) {
    SpdyProtocolUtils.putInt(currentBuffer, getStreamId());
    SpdyProtocolUtils.putInt(currentBuffer, SpdyChannel.FLAG_FIN << 24);
}
if (allHeaderBuffers == null) {
    //only one buffer required
    currentBuffer.flip();
    return new SendFrameHeader(remainingInBuffer, currentPooled);
} else {
    //headers were too big to fit in one buffer
    //for now we will just copy them into a big buffer
    int length = 0;
    for (int i = 0; i < allHeaderBuffers.length; ++i) {
        length += allHeaderBuffers[i].getResource().position();
        allHeaderBuffers[i].getResource().flip();
    }
    try {
        ByteBuffer newBuf = ByteBuffer.allocate(length);

        for (int i = 0; i < allHeaderBuffers.length; ++i) {
            newBuf.put(allHeaderBuffers[i].getResource());

```

```

    }
    newBuf.flip();
    return new SendFrameHeader(remainingInBuffer, new ImmediatePooled<ByteBuffer>(newBuf));
} finally {
    //the allocate can oome
    for (int i = 0; i < allHeaderBuffers.length; ++i) {
        allHeaderBuffers[i].free();
    }
}
}
}

@Override
protected Deflater getDeflater() {
    return deflater;
}

public HeaderMap getHeaders() {
    return headers;
}

@Override
protected void handleFlushComplete(boolean finalFrame) {
    super.handleFlushComplete(finalFrame);
    if (finalFrame) {
        if (completionListener != null) {
            ChannelListeners.invokeChannelListener(this, completionListener);
        }
    }
}

public ChannelListener<SpdySynReplyStreamSinkChannel> getCompletionListener() {
    return completionListener;
}

public void setCompletionListener(ChannelListener<SpdySynReplyStreamSinkChannel> completionListener) {
    this.completionListener = completionListener;
}
}
}
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```

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*/

package io.undertow.protocols.spdy;

import io.undertow.util.HeaderMap;
import org.xnio.Pooled;

import java.nio.ByteBuffer;

/**
 * @author Stuart Douglas
 */
public class SpdySynReplyStreamSourceChannel extends SpdyStreamSourceChannel {

    SpdySynReplyStreamSourceChannel(SpdyChannel framedChannel, Pooled<ByteBuffer> data, long
frameDataRemaining, HeaderMap headers, int streamId) {
        super(framedChannel, data, frameDataRemaining, headers, streamId);
    }
}

```

1.245 User Type for Joda Time with Hibernate

2.0.1

1.245.1 Available under license :

```

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1.246 User Type SPI Classes for Hibernate

2.0.1

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```

```
//
```

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```

```
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```

```
package github
```

```
import "fmt"
```

```
// LicensesService handles communication with the license related
```

```
// methods of the GitHub API.
```

```
//
```

```
// GitHub API docs: http://developer.github.com/v3/pulls/
```

```
type LicensesService struct {
```

```
    client *Client
```

```
}
```

```
// License represents an open source license.
```

```
type License struct {
```

```
    Key *string `json:"key,omitempty"`
```

```
    Name *string `json:"name,omitempty"`
```

```
    URL *string `json:"url,omitempty"`
```

```
    HTMLURL *string `json:"html_url,omitempty"`
```

```
    Featured *bool `json:"featured,omitempty"`
```

```
    Description *string `json:"description,omitempty"`
```

```
    Category *string `json:"category,omitempty"`
```

```
    Implementation *string `json:"implementation,omitempty"`
```

```
    Required *[]string `json:"required,omitempty"`
```

```
    Permitted *[]string `json:"permitted,omitempty"`
```

```
    Forbidden *[]string `json:"forbidden,omitempty"`
```

```
    Body *string `json:"body,omitempty"`
```

```
}
```

```
func (l License) String() string {
```

```
    return Stringify(l)
```

```
}
```

```
// List popular open source licenses.
```

```
//
```

```
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
```

```
func (s *LicensesService) List() ([]License, *Response, error) {
```

```

req, err := s.client.NewRequest("GET", "licenses", nil)
if err != nil {
    return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

licenses := new([]License)
resp, err := s.client.Do(req, licenses)
if err != nil {
    return nil, resp, err
}

return *licenses, resp, err
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

```

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Version 2.1, February 1999

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<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
  size: 8.5in 11.0in;
  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
}
p {
  margin-left: auto;
  margin-top: 0.5em;
  margin-bottom: 0.5em;
}
p.list {
  margin-left: 0.5in;
  margin-top: 0.05em;
  margin-bottom: 0.05em;
}
</style>
```

</head>

<body lang="EN-US">

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</body>

</html>

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">

<html lang="en">

<head>

<div class="clear"></div>
<div id="content" class="grid_16"><div class="section-content"><p>Apache License

Version 2.0,
January 2004
</br>
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</pre></div></div></div>

<div class="clear"></div>

</div>

<div id="footer" class="container_16">

<div class="links grid_16">

<div class="grid_3">

<h4>Projects</h4>

HTTP Server

Abdera

Accumulo

ACE

ActiveMQ

<a href="http://airavata.apache.org/" title="Workflow and Computational Job Management

Middleware">Airavata

Allura

Ambari

Ant

Any23

APR

Archiva

Aries

Avro

Axis

Bigtop

Bloodhound

Buildr

BVal

Camel

Cassandra

Cayenne

Chemistry

Chukwa

Clerezza

CloudStack

Cocoon

Commons

Continuum

Cordova

CouchDB

Creadur

Crunch

cTAKES

Curator

CXF

DB

Deltacloud

DeltaSpike

- DirectMemory
- Directory
- Empire-db
- Etch
- Felix
- Flex
- Flume
- Forrest
- Geronimo
- Giraph
- Gora
- Gump
- Hadoop
- Hama
- HBase
- Helix
- Hive
- HttpComponents
- Isis
- Jackrabbit
- James
- jclouds
- Jena
- JMeter
- JSPWiki
- jUDDI
- Kafka
- Karaf
- Knox
- Lenya
- Libcloud
- Logging
- Lucene

- Lucene.Net
- Lucy
- Mahout
- ManifoldCF
- Marmotta
- Maven
- Mesos
- MINA
- MRUnit
- MyFaces
- Nutch
- ODE
- OFBiz
- Olingo
- Oltu
- Onami
- OODT
- Oozie
- Open Climate Workbench
- OpenJPA
- OpenMeetings
- OpenNLP
- OpenOffice
- OpenWebBeans
- PDFBox
- Perl
- Pig
- Pivot
- POI
- Portals
- Qpid
- Rave
- River
- Roller

Santuario
ServiceMix
Shindig
Shiro
SIS
Sling
SpamAssassin
Spark
Sqoop
Stanbol
STeVe
Struts
Subversion
Synapse
Syncope
Tajo
Tapestry
Tcl
Tez
Thrift
Tika
Tiles
Tomcat
TomEE
Traffic Server
Turbine
Tuscany
UIMA
VCL
Velocity
VXQuery
Web Services
Whirr

```

<li><a href="http://wicket.apache.org/" title="Component-based Java Web Application
Framework.">Wicket</a></li>
<li><a href="http://wink.apache.org/" title="RESTful Web services Framework">Wink</a></li>
<li><a href="http://wookie.apache.org/" title="Widgets for Applications">Wookie</a></li>
<li><a href="http://xalan.apache.org/" title="XSLT processors in Java and C++">Xalan</a></li>
<li><a href="http://xerces.apache.org/" title="XML parsers in Java, C++ and Perl">Xerces</a></li>
<li><a href="http://xmlbeans.apache.org/" title="XML-Java binding tool">XMLBeans</a></li>
<li><a href="http://xmlgraphics.apache.org/" title="Conversion from XML to graphical output">XML
Graphics</a></li>
<li><a href="http://zookeeper.apache.org/" title="Centralized service for maintaining configuration
information">ZooKeeper</a></li>
</ul>
</div>
<div class="grid_3">
<h4>Foundation</h4>
<ul>
<li><a href="/foundation/faq.html">FAQ</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/licenses/" title="Overview of the Apache Licenses">Licenses</a></li>
<li><a href="/foundation/marks/" title="Apache marks policies and listing">Trademarks</a></li>
<li><a href="/foundation/news.html" title="Official news feed of Foundation announcements">News</a></li>

<li><a href="/press/" title="Press, Media, and Analyst contact">Press Inquiries</a></li>
<li><a href="/foundation/records/" title="Formal corporate records and board meeting minutes">Public
Records</a></li>
<li><a href="/foundation/maillinglists.html" title="Mailing lists and Apache">Mailing Lists</a></li>
<li><a href="/foundation/sponsorship.html" title="Sponsor the Foundation">Sponsorship</a></li>
<li><a href="/foundation/contributing.html" title="Donate to the Foundation">Donations</a></li>
<li><a href="/foundation/buy_stuff.html" title="Buy Apache branded merchandise">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html" title="Thank you to our Sponsors">Thanks</a></li>
<li><a href="/foundation/contact.html" title="Contact Us">Contact</a></li>
</ul>
</div>
<div class="grid_3 suffix_1">
<h4>Foundation Projects</h4>
<ul>
<li><a href="http://attic.apache.org/" title="Inactive projects repository">Attic</a></li>
<li><a href="/foundation/conferences.html" title="Meetings of developers and users">Conferences</a></li>
<li><a href="http://community.apache.org/" title="Helping newcomers to the ASF">Community
Development</a></li>
<li><a href="http://incubator.apache.org/" title="Shepherd for new projects">Incubator</a></li>
<li><a href="/dev/" title="ASF Infrastructure: Operations and howto documents for PMCs and
contributors">Infrastructure</a></li>
<li><a href="http://labs.apache.org/" title="The Innovation Laboratories of the Apache Software
Foundation">Labs</a></li>
<li><a href="/legal/" title="Legal Affairs">Legal Affairs</a></li>
<li><a href="/press/" title="Public Relations">Public Relations</a></li>
<li><a href="/security/" title="Security">Security</a></li>

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    <li><a href="/travel/" title="Travel Assistance">Travel Assistance</a></li>
  </ul>
</div>

<div class="grid_3">
  <h4>Community</h4>
  <ul>
    <li><a href="http://people.apache.org/" title="Apache committer homepages">People</a></li>
    <li><a href="/memorials/" title="In memoriam of past committers">Memorials</a></li>
    <li><a href="http://feathercast.apache.org/" title="Apache Podcasts">Feathercast</a></li>
    <li><a href="http://blogs.apache.org/" title="Apache Project Blogs">Project Blogs</a></li>
    <li><a href="http://planet.apache.org/committers/" title="Apache Committers' Blogs">PlanetApache</a></li>

  </ul>
</div>
<div class="grid_3">
  <h4>How It Works</h4>
  <ul>
    <li><a href="/foundation/how-it-works.html">Introduction</a></li>
    <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
    <li><a href="/foundation/how-it-works.html#structure">Structure</a></li>
    <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
    <li><a href="/foundation/how-it-works.html#management">Collaboration</a></li>
    <li><a href="/foundation/how-it-works.html#incubator">Incubator</a></li>
    <li><a href="/foundation/how-it-works.html#other">Other entities</a></li>
    <li><a href="/foundation/glossary.html">Glossary</a></li>
    <li><a href="/foundation/voting.html">Voting</a></li>
  </ul>
</div>
</div>
<div class="clear"></div>

</div>
<div id="copyright" class="container_16">
  <p>Copyright &#169; 2012 The Apache Software Foundation, Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.<br/>Apache and the
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</div>
</body>
</html>
<!DOCTYPE html>
<html>
<head>
  <title>jsoup License</title>
  <meta name="keywords" content="license, open source, mit" />
  <meta name="description" content="jsoup is licensed under the MIT open source license" />
  <link type="text/css" rel="stylesheet" href="/rez/style.css" />
  <script type="text/javascript">

```

```

var _gaq = _gaq || [];
_gaq.push(['_setAccount', 'UA-89734-10']);
_gaq.push(['_setDomainName', 'jsoup.org']);
_gaq.push(['_trackPageview']);

(function() {
  var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
  ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
  var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
})();
</script>
</head>
<body class="n1">
<div class="wrap">
<div class="header">
<div class="nav-sections">
<ul>
<li class="n1-home"><h4><a href="/">jsoup</a></h4></li>
<li class="n1-news"><a href="/news/">News</a></li>
<li class="n1-bugs"><a href="/bugs">Bugs</a></li>
<li class="n1-discussion"><a href="/discussion">Discussion</a></li>
<li class="n1-download"><a href="/download">Download</a></li>
<li class="n1-api"><a href="/apidocs/">API Reference</a></li>
<li class="n1-cookbook"><a href="/cookbook/">Cookbook</a></li>
<li class="n1-try"><a href="http://try.jsoup.org/">Try jsoup</a></li>
</ul>
</div>
</div>
<div class="breadcrumb">
<a href="/">jsoup</a>
<span class="seperator">&#x2013;</span> jsoup License
</div>
<div class="content">
<div class="col1">
<h1>jsoup License</h1>
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```
</div>
<!-- /col1 -->
<div class="col2">
</div>
<!-- /col2 -->
</div>
<!-- /content-->
<div class="footer">
<b>jsoup HTML parser</b> &copy; 2009 - 2013
<a href="http://jhy.io/" rel="author"><b>Jonathan Hedley</b></a>
</div>
</div>
<!-- /wrap -->
<script src="/rez/prettify.js"></script>
<script>prettyPrint();</script>
</body>
</html>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
<meta http-equiv="content-type"
content="text/html; charset=ISO-8859-1">
<title>CDDL ver. 1.0</title>
<meta name="author" content="Cliff Allen">
</head>
<body>
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<br>
<br>
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</body>

</html>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN"

"http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" version="XHTML+RDFa 1.0" dir="ltr">

```

<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" /><script
type="text/javascript">window.NREUM||(NREUM={}),__nr_require=function(t,n,e){function r(e){if(!n[e]){var
o=n[e]={exports:{}};t[e][0].call(o.exports,function(n){var o=t[e][1][n];return r(o?o:n)},o,o.exports)}return
n[e].exports}if("function"===typeof __nr_require)return __nr_require;for(var o=0;o<e.length;o++)r(e[o]);return
r}({D5DuLP:[function(t,n){function e(t,n){var e=r[t];return e?e.apply(this,n):(o[t]||o[t]=[],void o[t].push(n))}var
r={},o={};n.exports=e,e.queues=o,e.handlers=r},{},handle:[function(t,n){n.exports=t("D5DuLP")},{},G9z0B1:[fu
nction(t,n){function e(){var
t=l.info=NREUM.info;if(t&&t.agent&&t.licenseKey&&t.applicationID&&p&&p.body){l.proto="https"===f.split("
:")][0]||t.ssiForHttp?"https://":"http://",i("mark",["onload",a()]);var
n=p.createElement("script");n.src=l.proto+t.agent,p.body.appendChild(n)}}function
r(){"complete"===p.readyState&&o()}function o(){i("mark",["domContentLoaded",a()])}function a(){return(new
Date).getTime()}var
i=("handle"),u=window,p=u.document,s="addEventListener",c="attachEvent",f=((""+location).split("?")[0],l=n.exp
orts={offset:a(),origin:f,features:[]};p[s]?(p[s]("DOMContentLoaded",o,!1),u[s]("load",e,!1)):(p[c]("onreadystatecha
nge",r),u[c]("onload",e)),i("mark",["firstbyte",a()]),{handle:"D5DuLP"}),loader:[function(t,n){n.exports=t("G9z0B
1")},{},{}],["G9z0B1"]);</script>
<link rel="shortcut icon" href="http://opensource.org/files/garland_favicon.png" type="image/png" />
<link rel="shortlink" href="/node/66" />
<link rel="canonical" href="/licenses/MIT" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<title>The MIT License (MIT) | Open Source Initiative</title>
<link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_pbm0lsQQJ7A7WCCIMgxLho6mL_kBNgznuUWmTWcnfoE.css"
media="all" />
<link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2ATB4XKGEvmoUk_p62PwI-
o2aW47EqqS0nD2dmPZoV4.css" media="all" />
<link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2wI77kyP-
rJKVpFW5M3KFcj7Cb99lZalmubKIwWwsmU.css" media="all" />
<link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_k3snrbsthqot7V7ccRZHS9OkCZkwBv4adtNieIV1bEU.css" media="print"
/>

<!--[if lt IE 7]>
<link type="text/css" rel="stylesheet" href="http://opensource.org/themes/garland/fix-ie.css?n59km7" media="all"
/>
<![endif]-->
<script type="text/javascript"
src="http://opensource.org/files/js/js_xAPI0qIk9eowy_iS9tNkCWXLUVoat94SQT48UBCFkyQ.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[/><!--
jQuery.extend(Drupal.settings,
{"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"garland","theme_token":"7BC2XvMXRSjxxfAnx01wx
Kt4P-EKC8jv0RcJ6wO-W-
I","js":{"misc/jquery.js":1,"misc/jquery.once.js":1,"misc/drupal.js":1},"css":{"modules/system/system.base.css":
1,"modules/system/system.menus.css":1,"modules/system/system.messages.css":1,"modules/system/system.the
me.css":1,"modules/aggregator/aggregator.css":1,"modules/comment/comment.css":1,"modules/field/theme/field
Id.css":1,"sites/all/modules/mollom/mollom.css":1,"modules/node/node.css":1,"modules/search/search.css":1,"

```

```

modules\user\user.css":1,"themes\garland\style.css":1,"themes\garland\print.css":1,"themes\garland\fix-
ie.css":1}}});
//--><![]]>
</script>
</head>
<body class="html not-front not-logged-in one-sidebar sidebar-first page-node page-node- page-node-66 node-type-
page fluid-width" >
<div id="skip-link">
  <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>

<div id="wrapper">
  <div id="container" class="clearfix">

    <div id="header">
      <div id="logo-floater">
        <div id="branding"><strong><a href="/">
          
          <span>Open Source Initiative</span>      </a></strong></div>
        </div>

        <div> <!-- /#header -->

        <div id="sidebar-first" class="sidebar">
          <div class="region region-sidebar-first">
            <div id="block-search-form" class="block block-search clearfix">

              <h2 class="title">Search this site:</h2>

              <div class="content">
                <form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
                  <div class="form-item form-type-textfield form-item-search-block-form">
                    <label class="element-invisible" for="edit-search-block-form--2">Search </label>
                    <input title="Enter the terms you wish to search for." type="text" id="edit-search-block-form--2"
name="search_block_form" value="" size="15" maxlength="128" class="form-text" />
                  </div>
                  <div class="form-actions form-wrapper" id="edit-actions"><input type="submit" id="edit-submit" name="op"
value="Search" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
Fu509gwwEA_G6BKnWouvTdRVXDC6NcOl6GBr5Vx6VP0" />
                    <input type="hidden" name="form_id" value="search_block_form" />
                  </div>
                </div></form> </div>
              </div>
            <div id="block-system-navigation" class="block block-system block-menu clearfix">

              <h2 class="title">Navigation</h2>

```

```
<div class="content">
  <ul class="menu"><li class="first collapsed"><a href="/about" title="About the Open Source Initiative">About
the OSI</a></li>
<li class="collapsed"><a href="/osd" title="The actual OSD defining what constitutes an Open Source licence">The
Open Source Definition</a></li>
<li class="collapsed"><a href="/licenses">Open Source Licenses</a></li>
<li class="leaf"><a href="/working_groups">Working Groups</a></li>
<li class="leaf"><a href="/faq" title="Frequently Asked Questions about open source and about the
OSI.">FAQ</a></li>
<li class="collapsed"><a href="/trademark" title="Information about trademark and logo usage">Trademark and
Logo Usage</a></li>
<li class="collapsed"><a href="/osr-intro" title="Open Standards Requirement for Software">Open
Standards</a></li>
<li class="leaf"><a href="/osi-open-source-education" title="OSI's Open Source Education Initiative and
Activities">Open Source Education</a></li>
<li class="collapsed"><a href="/lists" title="The virtual committees where the OSI's work gets
done">Mailing lists</a></li>
<li class="collapsed"><a href="/help" title="Resources for questions and further exploration">Getting
Help</a></li>
<li class="collapsed"><a href="http://opensource.org/donate" title="">Donate to the OSI</a></li>
<li class="leaf"><a href="/members">OSI Individual Membership</a></li>
<li class="leaf"><a href="/store">OSI Store</a></li>
<li class="collapsed"><a href="/affiliates" title="Home page for OSI's membership scheme for non-profits
and not-for-profits">OSI Affiliate Membership</a></li>
<li class="leaf"><a href="/contact" title="">Contact OSI</a></li>
<li class="leaf"><a href="/ToS" title="Rules for posting content on this site">Terms of Service</a></li>
<li class="last leaf"><a href="/sponsors">OSI Corporate Sponsors</a></li>
</ul> </div>
</div>
</div>
  </div>
```

```
<div id="center"><div id="squeeze"><div class="right-corner"><div class="left-corner">
  <h2 class="element-invisible">You are here</h2><div class="breadcrumb"><a href="/">Home</a></div>
  <a id="main-content"></a>
  <div id="tabs-wrapper" class="clearfix">
    <h1 class="with-tabs">The MIT License
(MIT)</h1>
    </div>
    <div class="clearfix">
      <div class="region region-content">
        <div id="block-system-main" class="block block-system clearfix">
```

```
<div class="content">
  <div id="node-66" class="node node-page">
```

```
<div class="content clearfix">
  
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p>The MIT License (MIT)</p>
<p>Copyright (c) &lt;year&gt; &lt;copyright holders&gt;</p>
<p>Permission is hereby granted, free of charge, to any person obtaining a copy<br />
of this software and associated documentation files (the "Software"), to deal<br />
in the Software without restriction, including without limitation the rights<br />
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell<br />
copies of the Software, and to permit persons to whom the Software is<br />
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<p>The above copyright notice and this permission notice shall be included in<br />
all copies or substantial portions of the Software.</p>
<p>THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR<br />
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,<br />
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE<br />
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER<br />
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,<br />
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN<br />
THE SOFTWARE.</p>
</div></div></div> </div>
```

```
<div class="clearfix">
  <div class="links"></div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="region region-footer">
```

```
<div id="block-block-11" class="block block-block clearfix">
```

```
<div class="content">
```

```
<p style="text-align:center">Help shape the future of the Open Source Initiative...<br /><a
href="http://osi.xwiki.com">visit and participate in the OSI wiki</a>.
</p>
```

```
<div>
```

```
<a href="https://twitter.com/OpenSourceOrg" class="twitter-follow-button" data-show-count="false" data-
lang="en">Follow @OpenSourceOrg</a>
```

```
<script>
```

```
<!--><![CDATA[// ><!--
!function(d,s,id){var
js,fjs=d.getElementsByTagName(s)[0];if(!d.getElementById(id)){js=d.createElement(s);js.id=id;js.src="//platform.t
witter.com/widgets.js";fjs.parentNode.insertBefore(js,fjs);}(document,"script","twitter-wjs");
//><![>
</script></div>
```

```
<p>
<!-- Creative Commons License --><a rel="license" href="http://creativecommons.org/licenses/by/4.0/"></a><br />Opensource.org site content is licensed under a <a rel="license"
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International
License</a>.<!-- /Creative Commons License -->
```

```
<!-- <rdf:RDF xmlns="http://web.resource.org/cc/" xmlns:dc="http://purl.org/dc/elements/1.1/"
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
<Work rdf:about="">
  <license rdf:resource="http://creativecommons.org/licenses/by/3.0/" />
</Work>
<License rdf:about="http://creativecommons.org/licenses/by/3.0/"><permits
rdf:resource="http://web.resource.org/cc/Reproduction"/><permits
rdf:resource="http://web.resource.org/cc/Distribution"/><requires
rdf:resource="http://web.resource.org/cc/Notice"/><requires
rdf:resource="http://web.resource.org/cc/Attribution"/><permits
rdf:resource="http://web.resource.org/cc/DerivativeWorks"/></License></rdf:RDF>
-->
```

```
| <a href="..ToS">Terms of Service</a>
```

```
</p>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">
```

```
<div class="content">
  <script src="http://www.google-analytics.com/urchin.js" type="text/javascript">
```

```
<!--><![CDATA[// ><!--
```

```
//><![>
```

```
</script><script type="text/javascript">
```

```
<!--><![CDATA[// ><!--
```

```
_uacct = "UA-3916956-1";
```

```
urchinTracker();
```

```
//><![>
```



```
</script> </div>
</div>
</div>
</div></div></div></div> <!-- /.left-corner, /.right-corner, /#squeeze, /#center -->

</div> <!-- /#container -->
</div> <!-- /#wrapper -->
<script type="text/javascript">window.NREUM||(NREUM={});NREUM.info={"beacon":"beacon-
1.newrelic.com","licenseKey":"53c69192ac","applicationID":"224050","transactionName":"b1dRZkQCXEEHAEV
RXYFYdZkBFtFtcAgZJfKkNQqg==","queueTime":0,"applicationTime":28,"ttGuid":"","agentToken":"","atts":"QxB
SEAwYT08=","errorBeacon":"bam.nr-data.net","agent":"js-agent.newrelic.com/nr-411.min.js"}</script></body>
</html>
```

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1.251 wsd14j 1.6.2

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David Megginson, david@megginson.com

2000-05-05

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1.257 XMLTooling-J 1.4.4

1.258 XPP3 1.1.4c

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1.259 xpp3_min 1.1.4c

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* $Id: MXParser.java,v 1.52 2006/11/09 18:29:37 aslom Exp $
*/

```

1.260 XStream 1.4.1

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1.261 Zulu 8 8.13.0.5

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