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*
*/
package org.apache.ivy.core.module.descriptor;
```

```
public class License {
    private String name;

    private String url;

    public License(String name, String url) {
        this.name = name;
        this.url = url;
    }

    public String getName() {
        return name;
    }

    public String getUrl() {
        return url;
    }
}
```

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Protocol buffers for varint encoding

<https://developers.google.com/protocol-buffers/>

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<http://hdrhistogram.org>

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For additional credits (generally to people who reported problems) see CREDITS file.

## **1.42 catalysts-macros\_2.11-0.0.5 2.11-0.0.5**

## **1.43 catalysts-platform\_2.11-0.0.5 2.11-0.0.5**

## **1.44 cats-core\_2.11-0.9.0 2.11-0.9.0**

## **1.45 cats-free\_2.11-0.9.0 2.11-0.9.0**

**1.46 cats-jvm\_2.11-0.9.0 2.11-0.9.0**

**1.47 cats-kernel-laws\_2.11-0.9.0 2.11-0.9.0**

**1.48 cats-kernel\_2.11-0.9.0 2.11-0.9.0**

**1.49 cats-laws\_2.11-0.9.0 2.11-0.9.0**

**1.50 cats-macros\_2.11-0.9.0 2.11-0.9.0**

**1.51 cats\_2.11-0.9.0 2.11-0.9.0**

**1.52 cglib 2.2.1-v20099111**

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## 1.53 chill-java 0.8.0

## 1.54 chill-java 0.8.4

## 1.55 chill\_2.11 0.8.0

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# 1.69 commons-codec 1.5 :commons-codec-1.5.jar

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains  
test data from <http://aspell.sourceforge.net/test/batch0.tab>.

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\*/

# 1.70 commons-codec 1.11

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`src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java`  
contains test data from <http://aspell.net/test/orig/batch0.tab>.  
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# 1.71 commons-codec 1.10

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```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
```

```

<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

```

```

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

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```
</head>
```

```
<body>
```

```
<!-- Navigation -->
```

```
<header>
```

```
<nav class="navbar navbar-default navbar-fixed-top">
```

```
<div class="container">
```

```
<div class="navbar-header">
```

```
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
```

```
<span class="sr-only">Toggle navigation</span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
</button>
```

```
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
```

```

</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
  <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>
  <ul class="nav navbar-nav navbar-right">
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation">Overview</a></li>
        <li><a href="/foundation/members.html">Members</a></li>
        <li><a href="/foundation/how-it-works.html">Process</a></li>
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/glossary.html">Glossary</a></li>
        <li><a href="/foundation/preFAQ.html">FAQ</a></li>
        <li><a href="/foundation/contact.html ">Contact</a></li>
      </ul>
    </li>
    <li><a href="/index.html#projects-list">Projects</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="http://people.apache.org">Overview</a></li>
        <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
        <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
        <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
        <li><a href="http://planet.apache.org/">Planet Apache</a></li>
      </ul>
    </li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/getinvolved.html">Overview</a></li>
        <li><a href="http://community.apache.org">Community Development</a></li>
        <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
        <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
      </ul>
    </li>
    <li><a href="/dyn/closer.cgi">Download</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/contributing.html">Donations</a></li>
        <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
        <li><a href="/foundation/thanks.html">Thanks</a></li>
      </ul>
    </li>
  </ul>

```



```

        </li>
    </ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
    <div class="row">
        <div class="col-md-6 col-sm-5 col-xs-12">
            
        </div>
        <div class="col-md-3 col-sm-3 col-xs-6">
            <a href="http://apache.org/foundation/contributing.html" title="Support Apache">
                
            </a>
        </div>
        <div class="col-md-3 col-sm-4 col-xs-6">
            <div class="input-group" style="margin-bottom: 5px;">
                <script>
(function() {
    var cx = '005703438322411770421:5mgshgrgx2u';
    var gcse = document.createElement('script');
    gcse.type = 'text/javascript';
    gcse.async = true;
    gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
        '//cse.google.com/cse.js?cx=' + cx;
    var s = document.getElementsByTagName('script')[0];
    s.parentNode.insertBefore(gcse, s);
})();
</script>
        <gcse:searchbox-only></gcse:searchbox-only>
    </div>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
    <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
    </div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
    It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/

```

```

.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Community</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://community.apache.org/">Overview</a></li>
    <li><a href="/foundation/conferences.html">Conferences</a></li>
    <li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
    <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
    <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
    <li><a href="/travel/">Travel Assistance</a></li>
    <li><a href="/foundation/getinvolved.html">Get Involved</a></li>
    <li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
    <li><a href="/memorials/">Memorials</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```

<div class="col-sm-2">
  <h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-1">
</div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
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Foundation.</p>
  </div>
</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>

```

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## 1.73 commons-compiler 3.0.0

## 1.74 commons-compress 1.4.1

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## 1.77 commons-daemon 1.0.13

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\*/

package org.apache.derbyTesting.functionTests.tests.lang;

```

/**
 * <p>
 * Helper class for testing sql authorization.
 * </p>
 */
public class Permission
{
    public final String text;
    public final String sqlStateWhenMissing;

    public Permission( String text, String sqlStateWhenMissing )
    {
        this.text = text;
        this.sqlStateWhenMissing = sqlStateWhenMissing;
    }
}

```

```

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`analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt`,  
`analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`  
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`analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`  
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```
=====
snakeyaml NOTICE
=====
```

```
***The art of simplicity is a puzzle of complexity.***
```

```
## Overview ##
```

```
[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.
```

```
SnakeYAML is a YAML processor for the Java Virtual Machine.
```

```
## SnakeYAML features ##
```

```
* a complete [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
```

- \* Unicode support including UTF-8/UTF-16 input/output.
- \* high-level API for serializing and deserializing native Java objects.
- \* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
- \* relatively sensible error messages.

#### ## Info ##

- \* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

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been in development since 2007.  
It is currently developed by a community of developers, as well as supported  
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## 1.103 exts 2.11-1.44.0

## 1.104 flatbuffers 1.2.0-3f79e055

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org.eclipse.jetty.toolchain:jetty-schemas

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/\*

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery  
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-----

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js

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- \* java.sun.security.ssl

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- org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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

org.mortbay.jasper:apache-el  
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org.eclipse.jetty.toolchain:jetty-schemas

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*/
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For portions of the native implementation of slicing-by-8 CRC calculation  
in src/main/native/src/org/apache/hadoop/util:

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 */
```

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```
/*
LZ4 - Fast LZ compression algorithm
Header File
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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

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

-----

Oracle OpenJDK

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

module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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

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

-----  
Apache

The following artifacts are ASL2 licensed.

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

-----  
MortBay

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

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

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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- \* Providing benchmark suite
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*/
```

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in src/main/native/src/org/apache/hadoop/util:

```
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```

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

```
/*
LZ4 - Fast LZ compression algorithm
Header File
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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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 */
```

For portions of the native implementation of slicing-by-8 CRC calculation in src/main/native/src/org/apache/hadoop/util:

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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You can contact the author at :

- LZ4 source repository : <http://code.google.com/p/lz4/>

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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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\* java.sun.security.ssl

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org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

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```
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 */
```

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```
/*  
 LZ4 - Fast LZ compression algorithm  
 Header File  
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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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## 1.116 hadoop-common 2.8.1

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 */
package org.apache.hadoop.fs.permission;

import java.util.regex.Matcher;
import java.util.regex.Pattern;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * Base class for parsing either chmod permissions or umask permissions.
 * Includes common code needed by either operation as implemented in
 * UmaskParser and ChmodParser classes.
 */
@interfaceAudience.Private
@interfaceStability.Unstable
class PermissionParser {
    protected boolean symbolic = false;
    protected short userMode;
    protected short groupMode;
    protected short othersMode;
    protected short stickyMode;
    protected char userType = '+';
    protected char groupType = '+';
    protected char othersType = '+';
    protected char stickyBitType = '+';

/**
 * Begin parsing permission stored in modeStr
 *
 * @param modeStr Permission mode, either octal or symbolic
```



```

* @param symbolic Use-case specific symbolic pattern to match against
* @throws IllegalArgumentException if unable to parse modeStr
*/
public PermissionParser(String modeStr, Pattern symbolic, Pattern octal)
    throws IllegalArgumentException {
    Matcher matcher = null;

    if ((matcher = symbolic.matcher(modeStr)).find()) {
        applyNormalPattern(modeStr, matcher);
    } else if ((matcher = octal.matcher(modeStr)).matches()) {
        applyOctalPattern(modeStr, matcher);
    } else {
        throw new IllegalArgumentException(modeStr);
    }
}

private void applyNormalPattern(String modeStr, Matcher matcher) {
    // Are there multiple permissions stored in one chmod?
    boolean commaSeperated = false;

    for (int i = 0; i < 1 || matcher.end() < modeStr.length(); i++) {
        if (i > 0 && (!commaSeperated || !matcher.find())) {
            throw new IllegalArgumentException(modeStr);
        }

        /*
        * groups : 1 : [ugoa]* 2 : [+--] 3 : [rwxXt]+ 4 : [,\s]*
        */

        String str = matcher.group(2);
        char type = str.charAt(str.length() - 1);

        boolean user, group, others, stickyBit;
        user = group = others = stickyBit = false;

        for (char c : matcher.group(1).toCharArray()) {
            switch (c) {
                case 'u':
                    user = true;
                    break;
                case 'g':
                    group = true;
                    break;
                case 'o':
                    others = true;
                    break;
                case 'a':
                    break;
            }
        }
    }
}

```

```

default:
    throw new RuntimeException("Unexpected");
}
}

if (!(user || group || others)) { // same as specifying 'a'
    user = group = others = true;
}

short mode = 0;

for (char c : matcher.group(3).toCharArray()) {
    switch (c) {
        case 'r':
            mode |= 4;
            break;
        case 'w':
            mode |= 2;
            break;
        case 'x':
            mode |= 1;
            break;
        case 'X':
            mode |= 8;
            break;
        case 't':
            stickyBit = true;
            break;
        default:
            throw new RuntimeException("Unexpected");
    }
}

if (user) {
    userMode = mode;
    userType = type;
}

if (group) {
    groupMode = mode;
    groupType = type;
}

if (others) {
    othersMode = mode;
    othersType = type;

    stickyMode = (short) (stickyBit ? 1 : 0);
}

```

```

        stickyBitType = type;
    }

    commaSeperated = matcher.group(4).contains(",");
}
symbolic = true;
}

private void applyOctalPattern(String modeStr, Matcher matcher) {
    userType = groupType = othersType = '=';

    // Check if sticky bit is specified
    String sb = matcher.group(1);
    if (!sb.isEmpty()) {
        stickyMode = Short.valueOf(sb.substring(0, 1));
        stickyBitType = '=';
    }

    String str = matcher.group(2);
    userModel = Short.valueOf(str.substring(0, 1));
    groupMode = Short.valueOf(str.substring(1, 2));
    othersMode = Short.valueOf(str.substring(2, 3));
}

protected int combineModes(int existing, boolean exeOk) {
    return combineModeSegments(stickyBitType, stickyMode,
        (existing>>>9), false) << 9 |
        combineModeSegments(userType, userModel,
            (existing>>>6)&7, exeOk) << 6 |
        combineModeSegments(groupType, groupMode,
            (existing>>>3)&7, exeOk) << 3 |
        combineModeSegments(othersType, othersMode, existing&7, exeOk);
}

protected int combineModeSegments(char type, int mode,
    int existing, boolean exeOk) {
    boolean capX = false;

    if ((mode&8) != 0) { // convert X to x;
        capX = true;
        mode &= ~8;
        mode |= 1;
    }

    switch (type) {
        case '+': mode = mode | existing; break;
        case '-': mode = (~mode) & existing; break;
        case '=': break;
    }
}

```

```

default : throw new RuntimeException("Unexpected");
}

// if X is specified add 'x' only if exeOk or x was already set.
if (capX && !exeOk && (mode&1) != 0 && (existing&1) == 0) {
    mode &= ~1; // remove x
}

return mode;
}
}
/**
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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.apache.hadoop.fs.permission;

import java.util.ArrayList;
import java.util.Collection;
import java.util.List;

import com.google.common.base.Objects;

import org.apache.hadoop.HadoopIllegalArgumentException;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.util.StringUtils;

/**
 * Defines a single entry in an ACL. An ACL entry has a type (user, group,
 * mask, or other), an optional name (referring to a specific user or group), a
 * set of permissions (any combination of read, write and execute), and a scope
 * (access or default). AclEntry instances are immutable. Use a {@link Builder}
 * to create a new instance.
 */

```

```

@InterfaceAudience.Public
@InterfaceStability.Stable
public class AclEntry {
    private final AclEntryType type;
    private final String name;
    private final FsAction permission;
    private final AclEntryScope scope;

    /**
     * Returns the ACL entry type.
     *
     * @return AclEntryType ACL entry type
     */
    public AclEntryType getType() {
        return type;
    }

    /**
     * Returns the optional ACL entry name.
     *
     * @return String ACL entry name, or null if undefined
     */
    public String getName() {
        return name;
    }

    /**
     * Returns the set of permissions in the ACL entry.
     *
     * @return FsAction set of permissions in the ACL entry
     */
    public FsAction getPermission() {
        return permission;
    }

    /**
     * Returns the scope of the ACL entry.
     *
     * @return AclEntryScope scope of the ACL entry
     */
    public AclEntryScope getScope() {
        return scope;
    }

    @Override
    public boolean equals(Object o) {
        if (o == null) {
            return false;
        }
    }
}

```

```

    }
    if (getClass() != o.getClass()) {
        return false;
    }
    AclEntry other = (AclEntry)o;
    return Objects.equal(type, other.type) &&
        Objects.equal(name, other.name) &&
        Objects.equal(permission, other.permission) &&
        Objects.equal(scope, other.scope);
}

@Override
public int hashCode() {
    return Objects.hashCode(type, name, permission, scope);
}

@Override
@InterfaceStability.Unstable
public String toString() {
    // This currently just delegates to the stable string representation, but it
    // is permissible for the output of this method to change across versions.
    return toStringStable();
}

/**
 * Returns a string representation guaranteed to be stable across versions to
 * satisfy backward compatibility requirements, such as for shell command
 * output or serialization. The format of this string representation matches
 * what is expected by the {@link #parseAclSpec(String, boolean)} and
 * {@link #parseAclEntry(String, boolean)} methods.
 *
 * @return stable, backward compatible string representation
 */
public String toStringStable() {
    StringBuilder sb = new StringBuilder();
    if (scope == AclEntryScope.DEFAULT) {
        sb.append("default:");
    }
    if (type != null) {
        sb.append(StringUtils.toLowerCase(type.toStringStable()));
    }
    sb.append(':');
    if (name != null) {
        sb.append(name);
    }
    sb.append(':');
    if (permission != null) {
        sb.append(permission.SYMBOL);
    }
}

```

```

    }
    return sb.toString();
}

/**
 * Builder for creating new AclEntry instances.
 */
public static class Builder {
    private AclEntryType type;
    private String name;
    private FsAction permission;
    private AclEntryScope scope = AclEntryScope.ACCESS;

    /**
     * Sets the ACL entry type.
     *
     * @param type AclEntryType ACL entry type
     * @return Builder this builder, for call chaining
     */
    public Builder setType(AclEntryType type) {
        this.type = type;
        return this;
    }

    /**
     * Sets the optional ACL entry name.
     *
     * @param name String optional ACL entry name
     * @return Builder this builder, for call chaining
     */
    public Builder setName(String name) {
        if (name != null && !name.isEmpty()) {
            this.name = name;
        }
        return this;
    }

    /**
     * Sets the set of permissions in the ACL entry.
     *
     * @param permission FsAction set of permissions in the ACL entry
     * @return Builder this builder, for call chaining
     */
    public Builder setPermission(FsAction permission) {
        this.permission = permission;
        return this;
    }
}

```

```

/**
 * Sets the scope of the ACL entry. If this method is not called, then the
 * builder assumes { @link AclEntryScope#ACCESS }.
 *
 * @param scope AclEntryScope scope of the ACL entry
 * @return Builder this builder, for call chaining
 */
public Builder setScope(AclEntryScope scope) {
    this.scope = scope;
    return this;
}

/**
 * Builds a new AclEntry populated with the set properties.
 *
 * @return AclEntry new AclEntry
 */
public AclEntry build() {
    return new AclEntry(type, name, permission, scope);
}
}

/**
 * Private constructor.
 *
 * @param type AclEntryType ACL entry type
 * @param name String optional ACL entry name
 * @param permission FsAction set of permissions in the ACL entry
 * @param scope AclEntryScope scope of the ACL entry
 */
private AclEntry(AclEntryType type, String name, FsAction permission, AclEntryScope scope) {
    this.type = type;
    this.name = name;
    this.permission = permission;
    this.scope = scope;
}

/**
 * Parses a string representation of an ACL spec into a list of AclEntry
 * objects. Example: "user::rwx,user:foo:rw-,group::r--,other::---"
 * The expected format of ACL entries in the string parameter is the same
 * format produced by the { @link #toStringStable()} method.
 *
 * @param aclSpec
 *      String representation of an ACL spec.
 * @param includePermission
 *      for setAcl operations this will be true. i.e. AclSpec should
 *      include permissions.<br>

```



```

*      But for removeAcl operation it will be false. i.e. AclSpec should
*      not contain permissions.<br>
*      Example: "user:foo,group:bar"
* @return Returns list of { @link AclEntry } parsed
*/
public static List<AclEntry> parseAclSpec(String aclSpec,
    boolean includePermission) {
    List<AclEntry> aclEntries = new ArrayList<AclEntry>();
    Collection<String> aclStrings = StringUtils.getStringCollection(aclSpec,
        ",");
    for (String aclStr : aclStrings) {
        AclEntry aclEntry = parseAclEntry(aclStr, includePermission);
        aclEntries.add(aclEntry);
    }
    return aclEntries;
}

/**
* Parses a string representation of an ACL into a AclEntry object.<br>
* The expected format of ACL entries in the string parameter is the same
* format produced by the { @link #toStringStable() } method.
*
* @param aclStr
*      String representation of an ACL.<br>
*      Example: "user:foo:rw-"
* @param includePermission
*      for setAcl operations this will be true. i.e. Acl should include
*      permissions.<br>
*      But for removeAcl operation it will be false. i.e. Acl should not
*      contain permissions.<br>
*      Example: "user:foo,group:bar,mask::"
* @return Returns an { @link AclEntry } object
*/
public static AclEntry parseAclEntry(String aclStr,
    boolean includePermission) {
    AclEntry.Builder builder = new AclEntry.Builder();
    // Here ":" represent one empty string.
    // StringUtils.getStringCollection() will ignore this.
    String[] split = aclStr.split(":");

    if (split.length == 0) {
        throw new HadoopIllegalArgumentException("Invalid <aclSpec> : " + aclStr);
    }
    int index = 0;
    if ("default".equals(split[0])) {
        // default entry
        index++;
        builder.setScope(AclEntryScope.DEFAULT);
    }
}

```

```

}

if (split.length <= index) {
    throw new HadoopIllegalArgumentException("Invalid <aclSpec> : " + aclStr);
}

AclEntryType aclType = null;
try {
    aclType = Enum.valueOf(
        AclEntryType.class, StringUtils.toUpperCase(split[index]));
    builder.setType(aclType);
    index++;
} catch (IllegalArgumentException iae) {
    throw new HadoopIllegalArgumentException(
        "Invalid type of acl in <aclSpec> : " + aclStr);
}

if (split.length > index) {
    String name = split[index];
    if (!name.isEmpty()) {
        builder.setName(name);
    }
    index++;
}

if (includePermission) {
    if (split.length <= index) {
        throw new HadoopIllegalArgumentException("Invalid <aclSpec> : "
            + aclStr);
    }
    String permission = split[index];
    FsAction fsAction = FsAction.getFsAction(permission);
    if (null == fsAction) {
        throw new HadoopIllegalArgumentException(
            "Invalid permission in <aclSpec> : " + aclStr);
    }
    builder.setPermission(fsAction);
    index++;
}

if (split.length > index) {
    throw new HadoopIllegalArgumentException("Invalid <aclSpec> : " + aclStr);
}
AclEntry aclEntry = builder.build();
return aclEntry;
}

/**

```

```

* Convert a List of AclEntries into a string - the reverse of parseAclSpec.
* @param aclSpec List of AclEntries to convert
* @return String representation of aclSpec
*/
public static String aclSpecToString(List<AclEntry> aclSpec) {
    StringBuilder buf = new StringBuilder();
    for ( AclEntry e : aclSpec ) {
        buf.append(e.toString());
        buf.append(",");
    }
    return buf.substring(0, buf.length()-1); // remove last ,
}
}
/**
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
package org.apache.hadoop.fs.permission;

import java.util.List;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

import com.google.common.base.Objects;
import com.google.common.base.Preconditions;
import com.google.common.collect.Lists;

/**
* An AclStatus contains the ACL information of a specific file. AclStatus
* instances are immutable. Use a { @link Builder } to create a new instance.
*/
@InterfaceAudience.Public
@InterfaceStability.Stable
public class AclStatus {

```

```

private final String owner;
private final String group;
private final boolean stickyBit;
private final List<AclEntry> entries;
private final FsPermission permission;

/**
 * Returns the file owner.
 *
 * @return String file owner
 */
public String getOwner() {
    return owner;
}

/**
 * Returns the file group.
 *
 * @return String file group
 */
public String getGroup() {
    return group;
}

/**
 * Returns the sticky bit.
 *
 * @return boolean sticky bit
 */
public boolean isStickyBit() {
    return stickyBit;
}

/**
 * Returns the list of all ACL entries, ordered by their natural ordering.
 *
 * @return List<AclEntry> unmodifiable ordered list of all ACL entries
 */
public List<AclEntry> getEntries() {
    return entries;
}

/**
 * Returns the permission set for the path
 * @return { @link FsPermission} for the path
 */
public FsPermission getPermission() {
    return permission;
}

```

```

}

@Override
public boolean equals(Object o) {
    if (o == null) {
        return false;
    }
    if (getClass() != o.getClass()) {
        return false;
    }
    AclStatus other = (AclStatus)o;
    return Objects.equal(owner, other.owner)
        && Objects.equal(group, other.group)
        && stickyBit == other.stickyBit
        && Objects.equal(entries, other.entries);
}

@Override
public int hashCode() {
    return Objects.hashCode(owner, group, stickyBit, entries);
}

@Override
public String toString() {
    return new StringBuilder()
        .append("owner: ").append(owner)
        .append(", group: ").append(group)
        .append(", acl: {")
        .append("entries: ").append(entries)
        .append(", stickyBit: ").append(stickyBit)
        .append('}')
        .toString();
}

/**
 * Builder for creating new Acl instances.
 */
public static class Builder {
    private String owner;
    private String group;
    private boolean stickyBit;
    private List<AclEntry> entries = Lists.newArrayList();
    private FsPermission permission = null;

    /**
     * Sets the file owner.
     *
     * @param owner String file owner

```

```

* @return Builder this builder, for call chaining
*/
public Builder owner(String owner) {
    this.owner = owner;
    return this;
}

/**
 * Sets the file group.
 *
 * @param group String file group
 * @return Builder this builder, for call chaining
 */
public Builder group(String group) {
    this.group = group;
    return this;
}

/**
 * Adds an ACL entry.
 *
 * @param e AclEntry entry to add
 * @return Builder this builder, for call chaining
 */
public Builder addEntry(AclEntry e) {
    this.entries.add(e);
    return this;
}

/**
 * Adds a list of ACL entries.
 *
 * @param entries AclEntry entries to add
 * @return Builder this builder, for call chaining
 */
public Builder addEntries(Iterable<AclEntry> entries) {
    for (AclEntry e : entries)
        this.entries.add(e);
    return this;
}

/**
 * Sets sticky bit. If this method is not called, then the builder assumes
 * false.
 *
 * @param stickyBit
 *         boolean sticky bit
 * @return Builder this builder, for call chaining

```

```

*/
public Builder stickyBit(boolean stickyBit) {
    this.stickyBit = stickyBit;
    return this;
}

/**
 * Sets the permission for the file.
 * @param permission
 */
public Builder setPermission(FsPermission permission) {
    this.permission = permission;
    return this;
}

/**
 * Builds a new AclStatus populated with the set properties.
 *
 * @return AclStatus new AclStatus
 */
public AclStatus build() {
    return new AclStatus(owner, group, stickyBit, entries, permission);
}
}

/**
 * Private constructor.
 *
 * @param file Path file associated to this ACL
 * @param owner String file owner
 * @param group String file group
 * @param stickyBit the sticky bit
 * @param entries the ACL entries
 * @param permission permission of the path
 */
private AclStatus(String owner, String group, boolean stickyBit,
    Iterable<AclEntry> entries, FsPermission permission) {
    this.owner = owner;
    this.group = group;
    this.stickyBit = stickyBit;
    this.entries = Lists.newArrayList(entries);
    this.permission = permission;
}

/**
 * Get the effective permission for the AclEntry
 * @param entry AclEntry to get the effective action
 */

```

```

public FsAction getEffectivePermission(AclEntry entry) {
    return getEffectivePermission(entry, permission);
}

/**
 * Get the effective permission for the AclEntry. <br>
 * Recommended to use this API ONLY if client communicates with the old
 * NameNode, needs to pass the Permission for the path to get effective
 * permission, else use { @link AclStatus#getEffectivePermission(AclEntry)}.
 * @param entry AclEntry to get the effective action
 * @param permArg Permission for the path. However if the client is NOT
 * communicating with old namenode, then this argument will not have
 * any preference.
 * @return Returns the effective permission for the entry.
 * @throws IllegalArgumentException If the client communicating with old
 * namenode and permission is not passed as an argument.
 */
public FsAction getEffectivePermission(AclEntry entry, FsPermission permArg)
    throws IllegalArgumentException {
    // At least one permission bits should be available.
    Preconditions.checkArgument(this.permission != null || permArg != null,
        "Permission bits are not available to calculate effective permission");
    if (this.permission != null) {
        // permission bits from server response will have the priority for
        // accuracy.
        permArg = this.permission;
    }
    if ((entry.getName() != null || entry.getType() == AclEntryType.GROUP)) {
        if (entry.getScope() == AclEntryScope.ACCESS) {
            FsAction entryPerm = entry.getPermission();
            return entryPerm.and(permArg.getGroupAction());
        } else {
            Preconditions.checkArgument(this.entries.contains(entry)
                && this.entries.size() >= 3,
                "Passed default ACL entry not found in the list of ACLs");
            // default mask entry for effective permission calculation will be the
            // penultimate entry. This can be mask entry in case of extended ACLs.
            // In case of minimal ACL, this is the owner group entry, and we end up
            // intersecting group FsAction with itself, which is a no-op.
            FsAction defaultMask = this.entries.get(this.entries.size() - 2)
                .getPermission();
            FsAction entryPerm = entry.getPermission();
            return entryPerm.and(defaultMask);
        }
    } else {
        return entry.getPermission();
    }
}

```



```

}
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
package org.apache.hadoop.fs.permission;

import java.util.regex.Pattern;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.fs.FileStatus;

/**
 * Parse a permission mode passed in from a chmod command and apply that
 * mode against an existing file.
 */
@InterfaceAudience.Private
@InterfaceStability.Unstable
public class ChmodParser extends PermissionParser {
    private static Pattern chmodOctalPattern =
        Pattern.compile("^\\s*[+]?([01]?)([0-7]{3})\\s*$");
    private static Pattern chmodNormalPattern =
        Pattern.compile("\\G\\s*([ugoa]*)([+=-]+)([rwxXt]+)([,\\s]*)\\s*");

    public ChmodParser(String modeStr) throws IllegalArgumentException {
        super(modeStr, chmodNormalPattern, chmodOctalPattern);
    }
}

/**
 * Apply permission against specified file and determine what the
 * new mode would be
 * @param file File against which to apply mode
 * @return File's new mode if applied.
 */

```

```

public short applyNewPermission(FileStatus file) {
    FsPermission perms = file.getPermission();
    int existing = perms.toShort();
    boolean exeOk = file.isDirectory() || (existing & 0111) != 0;

    return (short)combineModes(existing, exeOk);
}
}
/**
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */
package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * File system actions, e.g. read, write, etc.
 */
@InterfaceAudience.Public
@InterfaceStability.Stable
public enum FsAction {
    // POSIX style
    NONE("---"),
    EXECUTE("--x"),
    WRITE("-w-"),
    WRITE_EXECUTE("-wx"),
    READ("r--"),
    READ_EXECUTE("r-x"),
    READ_WRITE("rw-"),
    ALL("rwx");

    /** Retain reference to value array. */
    private final static FsAction[] vals = values();
}

```

```

/** Symbolic representation */
public final String SYMBOL;

private FsAction(String s) {
    SYMBOL = s;
}

/**
 * Return true if this action implies that action.
 * @param that
 */
public boolean implies(FsAction that) {
    if (that != null) {
        return (ordinal() & that.ordinal()) == that.ordinal();
    }
    return false;
}

/** AND operation. */
public FsAction and(FsAction that) {
    return vals[ordinal() & that.ordinal()];
}

/** OR operation. */
public FsAction or(FsAction that) {
    return vals[ordinal() | that.ordinal()];
}

/** NOT operation. */
public FsAction not() {
    return vals[7 - ordinal()];
}

/**
 * Get the FsAction enum for String representation of permissions
 *
 * @param permission
 *      3-character string representation of permission. ex: rwx
 * @return Returns FsAction enum if the corresponding FsAction exists for permission.
 *      Otherwise returns null
 */
public static FsAction getFsAction(String permission) {
    for (FsAction fsAction : vals) {
        if (fsAction.SYMBOL.equals(permission)) {
            return fsAction;
        }
    }
    return null;
}

```

```

}
/**
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */
package org.apache.hadoop.fs.permission;

import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.CommonConfigurationKeys;
import org.apache.hadoop.io.Writable;
import org.apache.hadoop.io.WritableFactories;
import org.apache.hadoop.io.WritableFactory;

/**
 * A class for file/directory permissions.
 */
@InterfaceAudience.Public
@InterfaceStability.Stable
public class FsPermission implements Writable {
    private static final Log LOG = LogFactory.getLog(FsPermission.class);

    static final WritableFactory FACTORY = new WritableFactory() {
        @Override
        public Writable newInstance() { return new FsPermission(); }
    };

    static {
        // register a ctor
        WritableFactories.setFactory(FsPermission.class, FACTORY);
    }

```

```

    WritableFactories.setFactory(ImmutableFsPermission.class, FACTORY);
}

/** Maximum acceptable length of a permission string to parse */
public static final int MAX_PERMISSION_LENGTH = 10;

/** Create an immutable {@link FsPermission} object. */
public static FsPermission createImmutable(short permission) {
    return new ImmutableFsPermission(permission);
}

//POSIX permission style
private FsAction useraction = null;
private FsAction groupaction = null;
private FsAction otheraction = null;
private boolean stickyBit = false;

private FsPermission() {}

/**
 * Construct by the given {@link FsAction}.
 * @param u user action
 * @param g group action
 * @param o other action
 */
public FsPermission(FsAction u, FsAction g, FsAction o) {
    this(u, g, o, false);
}

public FsPermission(FsAction u, FsAction g, FsAction o, boolean sb) {
    set(u, g, o, sb);
}

/**
 * Construct by the given mode.
 * @param mode
 * @see #toShort()
 */
public FsPermission(short mode) { fromShort(mode); }

/**
 * Copy constructor
 *
 * @param other other permission
 */
public FsPermission(FsPermission other) {
    this.useraction = other.useraction;
    this.groupaction = other.groupaction;
}

```

```

    this.otheraction = other.otheraction;
    this.stickyBit = other.stickyBit;
}

/**
 * Construct by given mode, either in octal or symbolic format.
 * @param mode mode as a string, either in octal or symbolic format
 * @throws IllegalArgumentException if <code>mode</code> is invalid
 */
public FsPermission(String mode) {
    this(new UmaskParser(mode).getUMask());
}

/** Return user {@link FsAction}. */
public FsAction getUserAction() {return useraction;}

/** Return group {@link FsAction}. */
public FsAction getGroupAction() {return groupaction;}

/** Return other {@link FsAction}. */
public FsAction getOtherAction() {return otheraction;}

private void set(FsAction u, FsAction g, FsAction o, boolean sb) {
    useraction = u;
    groupaction = g;
    otheraction = o;
    stickyBit = sb;
}

public void fromShort(short n) {
    FsAction[] v = FSACTION_VALUES;
    set(v[(n >>> 6) & 7], v[(n >>> 3) & 7], v[n & 7], (((n >>> 9) & 1) == 1));
}

@Override
public void write(DataOutput out) throws IOException {
    out.writeShort(toShort());
}

@Override
public void readFields(DataInput in) throws IOException {
    fromShort(in.readShort());
}

/**
 * Create and initialize a {@link FsPermission} from {@link DataInput}.
 */
public static FsPermission read(DataInput in) throws IOException {

```

```

FsPermission p = new FsPermission();
p.readFields(in);
return p;
}

/**
 * Encode the object to a short.
 */
public short toShort() {
    int s = (stickyBit ? 1 << 9 : 0) |
        (useraction.ordinal() << 6) |
        (groupaction.ordinal() << 3) |
        otheraction.ordinal();

    return (short)s;
}

/**
 * Encodes the object to a short. Unlike {@link #toShort()}, this method may
 * return values outside the fixed range 00000 - 01777 if extended features
 * are encoded into this permission, such as the ACL bit.
 *
 * @return short extended short representation of this permission
 */
public short toExtendedShort() {
    return toShort();
}

@Override
public boolean equals(Object obj) {
    if (obj instanceof FsPermission) {
        FsPermission that = (FsPermission)obj;
        return this.useraction == that.useraction
            && this.groupaction == that.groupaction
            && this.otheraction == that.otheraction
            && this.stickyBit == that.stickyBit;
    }
    return false;
}

@Override
public int hashCode() {return toShort();}

@Override
public String toString() {
    String str = useraction.SYMBOL + groupaction.SYMBOL + otheraction.SYMBOL;
    if(stickyBit) {
        StringBuilder str2 = new StringBuilder(str);

```

```

        str2.replace(str2.length() - 1, str2.length(),
            otheraction.implies(FsAction.EXECUTE) ? "t" : "T");
        str = str2.toString();
    }

    return str;
}

/**
 * Apply a umask to this permission and return a new one.
 *
 * The umask is used by create, mkdir, and other Hadoop filesystem operations.
 * The mode argument for these operations is modified by removing the bits
 * which are set in the umask. Thus, the umask limits the permissions which
 * newly created files and directories get.
 *
 * @param umask      The umask to use
 *
 * @return           The effective permission
 */
public FsPermission applyUMask(FsPermission umask) {
    return new FsPermission(useraction.and(umask.useraction.not()),
        groupaction.and(umask.groupaction.not()),
        otheraction.and(umask.otheraction.not()));
}

/** umask property label deprecated key and code in getUMask method
 * to accommodate it may be removed in version .23 */
public static final String DEPRECATED_UMASK_LABEL = "dfs.umask";
public static final String UMASK_LABEL =
    CommonConfigurationKeys.FS_PERMISSIONS_UMASK_KEY;
public static final int DEFAULT_UMASK =
    CommonConfigurationKeys.FS_PERMISSIONS_UMASK_DEFAULT;

private static final FsAction[] FSACTION_VALUES = FsAction.values();

/**
 * Get the user file creation mask (umask)
 *
 * { @code UMASK_LABEL } config param has umask value that is either symbolic
 * or octal.
 *
 * Symbolic umask is applied relative to file mode creation mask;
 * the permission op characters '+' clears the corresponding bit in the mask,
 * '-' sets bits in the mask.
 *
 * Octal umask, the specified bits are set in the file mode creation mask.
 */

```



```

* {@code DEPRECATED_UMASK_LABEL} config param has umask value set to decimal.
*/
public static FsPermission getUMask(Configuration conf) {
    int umask = DEFAULT_UMASK;

    // To ensure backward compatibility first use the deprecated key.
    // If the deprecated key is not present then check for the new key
    if(conf != null) {
        String confUmask = conf.get(UMASK_LABEL);
        int oldUmask = conf.getInt(DEPRECATED_UMASK_LABEL, Integer.MIN_VALUE);
        try {
            if(confUmask != null) {
                umask = new UmaskParser(confUmask).getUMask();
            }
        } catch(IllegalArgumentException iae) {
            // Provide more explanation for user-facing message
            String type = iae instanceof NumberFormatException ? "decimal"
                : "octal or symbolic";
            String error = "Unable to parse configuration " + UMASK_LABEL
                + " with value " + confUmask + " as " + type + " umask.";
            LOG.warn(error);

            // If oldUmask is not set, then throw the exception
            if (oldUmask == Integer.MIN_VALUE) {
                throw new IllegalArgumentException(error);
            }
        }

        if(oldUmask != Integer.MIN_VALUE) { // Property was set with old key
            if (umask != oldUmask) {
                LOG.warn(DEPRECATED_UMASK_LABEL
                    + " configuration key is deprecated. " + "Convert to "
                    + UMASK_LABEL + ", using octal or symbolic umask "
                    + "specifications.");
                // Old and new umask values do not match - Use old umask
                umask = oldUmask;
            }
        }
    }

    return new FsPermission((short)umask);
}

public boolean getStickyBit() {
    return stickyBit;
}

/**

```

```

* Returns true if there is also an ACL (access control list).
*
* @return boolean true if there is also an ACL (access control list).
*/
public boolean getAclBit() {
    // File system subclasses that support the ACL bit would override this.
    return false;
}

/**
 * Returns true if the file is encrypted or directory is in an encryption zone
 */
public boolean getEncryptedBit() {
    return false;
}

/** Set the user file creation mask (umask) */
public static void setUMask(Configuration conf, FsPermission umask) {
    conf.set(UMASK_LABEL, String.format("%1$03o", umask.toShort()));
    conf.setInt(DEPRECATED_UMASK_LABEL, umask.toShort());
}

/**
 * Get the default permission for directory and symlink.
 * In previous versions, this default permission was also used to
 * create files, so files created end up with ugo+x permission.
 * See HADOOP-9155 for detail.
 * Two new methods are added to solve this, please use
 * { @link FsPermission#getDirDefault()} for directory, and use
 * { @link FsPermission#getFileDefault()} for file.
 * This method is kept for compatibility.
 */
public static FsPermission getDefault() {
    return new FsPermission((short)00777);
}

/**
 * Get the default permission for directory.
 */
public static FsPermission getDirDefault() {
    return new FsPermission((short)00777);
}

/**
 * Get the default permission for file.
 */
public static FsPermission getFileDefault() {
    return new FsPermission((short)00666);
}

```

```

}

/**
 * Get the default permission for cache pools.
 */
public static FsPermission getCachePoolDefault() {
    return new FsPermission((short)00755);
}

/**
 * Create a FsPermission from a Unix symbolic permission string
 * @param unixSymbolicPermission e.g. "-rw-rw-rw-"
 */
public static FsPermission valueOf(String unixSymbolicPermission) {
    if (unixSymbolicPermission == null) {
        return null;
    }
    else if (unixSymbolicPermission.length() != MAX_PERMISSION_LENGTH) {
        throw new IllegalArgumentException(String.format(
            "length != %d(unixSymbolicPermission=%s)", MAX_PERMISSION_LENGTH,
            unixSymbolicPermission));
    }

    int n = 0;
    for(int i = 1; i < unixSymbolicPermission.length(); i++) {
        n = n << 1;
        char c = unixSymbolicPermission.charAt(i);
        n += (c == '-' || c == 'T' || c == 'S') ? 0: 1;
    }

    // Add sticky bit value if set
    if(unixSymbolicPermission.charAt(9) == 't' ||
        unixSymbolicPermission.charAt(9) == 'T')
        n += 01000;

    return new FsPermission((short)n);
}

private static class ImmutableFsPermission extends FsPermission {
    public ImmutableFsPermission(short permission) {
        super(permission);
    }

    @Override
    public void readFields(DataInput in) throws IOException {
        throw new UnsupportedOperationException();
    }
}

```

```

}
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 */
package org.apache.hadoop.fs.permission;

import java.util.Collections;
import java.util.List;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.fs.permission.AclEntry;
import org.apache.hadoop.fs.permission.AclEntryScope;

/**
 * Groups a list of ACL entries into separate lists for access entries vs.
 * default entries.
 */
@InterfaceAudience.LimitedPrivate({"HDFS", "MapReduce"})
@InterfaceStability.Unstable
public final class ScopedAclEntries {
    private static final int PIVOT_NOT_FOUND = -1;

    private final List<AclEntry> accessEntries;
    private final List<AclEntry> defaultEntries;

    /**
     * Creates a new ScopedAclEntries from the given list. It is assumed that the
     * list is already sorted such that all access entries precede all default
     * entries.
     *
     * @param aclEntries List<AclEntry> to separate
     */
    public ScopedAclEntries(List<AclEntry> aclEntries) {

```

```

int pivot = calculatePivotOnDefaultEntries(aclEntries);
if (pivot != PIVOT_NOT_FOUND) {
    accessEntries = pivot != 0 ? aclEntries.subList(0, pivot) :
        Collections.<AclEntry>emptyList();
    defaultEntries = aclEntries.subList(pivot, aclEntries.size());
} else {
    accessEntries = aclEntries;
    defaultEntries = Collections.emptyList();
}
}

/**
 * Returns access entries.
 *
 * @return List<AclEntry> containing just access entries, or an empty list if
 * there are no access entries
 */
public List<AclEntry> getAccessEntries() {
    return accessEntries;
}

/**
 * Returns default entries.
 *
 * @return List<AclEntry> containing just default entries, or an empty list if
 * there are no default entries
 */
public List<AclEntry> getDefaultEntries() {
    return defaultEntries;
}

/**
 * Returns the pivot point in the list between the access entries and the
 * default entries. This is the index of the first element in the list that is
 * a default entry.
 *
 * @param aclBuilder ArrayList<AclEntry> containing entries to build
 * @return int pivot point, or -1 if list contains no default entries
 */
private static int calculatePivotOnDefaultEntries(List<AclEntry> aclBuilder) {
    for (int i = 0; i < aclBuilder.size(); ++i) {
        if (aclBuilder.get(i).getScope() == AclEntryScope.DEFAULT) {
            return i;
        }
    }
    return PIVOT_NOT_FOUND;
}
}

```

```

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 */
package org.apache.hadoop.fs.permission;

import java.io.IOException;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * An exception class for access control related issues.
 * @deprecated Use {@link org.apache.hadoop.security.AccessControlException}
 * instead.
 */
@Deprecated
@InterfaceAudience.Public
@InterfaceStability.Stable
public class AccessControlException extends IOException {
    //Required by {@link java.io.Serializable}.
    private static final long serialVersionUID = 1L;

    /**
     * Default constructor is needed for unwrapping from
     * {@link org.apache.hadoop.ipc.RemoteException}.
     */
    public AccessControlException() {
        super("Permission denied.");
    }

    /**
     * Constructs an {@link AccessControlException}
     * with the specified detail message.
     * @param s the detail message.

```

```

*/
public AccessControlException(String s) {
    super(s);
}

/**
 * Constructs a new exception with the specified cause and a detail
 * message of <tt>(cause==null ? null : cause.toString())</tt> (which
 * typically contains the class and detail message of <tt>cause</tt>).
 * @param cause the cause (which is saved for later retrieval by the
 *     { @link #getCause()} method). (A <tt>>null</tt> value is
 *     permitted, and indicates that the cause is nonexistent or
 *     unknown.)
 */
public AccessControlException(Throwable cause) {
    super(cause);
}
}
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 */
package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.io.*;

import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;

/**
 * Store permission related information.
 */

```

```

@InterfaceAudience.LimitedPrivate({"HDFS", "MapReduce"})
@InterfaceStability.Unstable
public class PermissionStatus implements Writable {
    static final WritableFactory FACTORY = new WritableFactory() {
        @Override
        public Writable newInstance() { return new PermissionStatus(); }
    };
    static {
        // register a ctor
        WritableFactories.setFactory(PermissionStatus.class, FACTORY);
    }

    /** Create an immutable {@link PermissionStatus} object. */
    public static PermissionStatus createImmutable(
        String user, String group, FsPermission permission) {
        return new PermissionStatus(user, group, permission) {
            @Override
            public PermissionStatus applyUMask(FsPermission umask) {
                throw new UnsupportedOperationException();
            }
            @Override
            public void readFields(DataInput in) throws IOException {
                throw new UnsupportedOperationException();
            }
        };
    }

    private String username;
    private String groupname;
    private FsPermission permission;

    private PermissionStatus() {}

    /** Constructor */
    public PermissionStatus(String user, String group, FsPermission permission) {
        username = user;
        groupname = group;
        this.permission = permission;
    }

    /** Return user name */
    public String getUsername() {return username;}

    /** Return group name */
    public String getGroupName() {return groupname;}

    /** Return permission */
    public FsPermission getPermission() {return permission;}

```



```

/**
 * Apply umask.
 * @see FsPermission#applyUMask(FsPermission)
 */
public PermissionStatus applyUMask(FsPermission umask) {
    permission = permission.applyUMask(umask);
    return this;
}

@Override
public void readFields(DataInput in) throws IOException {
    username = Text.readString(in, Text.DEFAULT_MAX_LEN);
    groupname = Text.readString(in, Text.DEFAULT_MAX_LEN);
    permission = FsPermission.read(in);
}

@Override
public void write(DataOutput out) throws IOException {
    write(out, username, groupname, permission);
}

/**
 * Create and initialize a {@link PermissionStatus} from {@link DataInput}.
 */
public static PermissionStatus read(DataInput in) throws IOException {
    PermissionStatus p = new PermissionStatus();
    p.readFields(in);
    return p;
}

/**
 * Serialize a {@link PermissionStatus} from its base components.
 */
public static void write(DataOutput out,
                        String username,
                        String groupname,
                        FsPermission permission) throws IOException {
    Text.writeString(out, username, Text.DEFAULT_MAX_LEN);
    Text.writeString(out, groupname, Text.DEFAULT_MAX_LEN);
    permission.write(out);
}

@Override
public String toString() {
    return username + ":" + groupname + ":" + permission;
}
}

```

```

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 */
package org.apache.hadoop.fs.permission;

import java.util.Iterator;
import java.util.List;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

import com.google.common.collect.Lists;

/**
 * AclUtil contains utility methods for manipulating ACLs.
 */
@interfaceAudience.LimitedPrivate({"HDFS", "MapReduce"})
@interfaceStability.Unstable
public final class AclUtil {

/**
 * Given permissions and extended ACL entries, returns the full logical ACL.
 *
 * @param perm FsPermission containing permissions
 * @param entries List<AclEntry> containing extended ACL entries
 * @return List<AclEntry> containing full logical ACL
 */
public static List<AclEntry> getAclFromPermAndEntries(FsPermission perm,
    List<AclEntry> entries) {
    List<AclEntry> acl = Lists.newArrayListWithCapacity(entries.size() + 3);

    // Owner entry implied by owner permission bits.
    acl.add(new AclEntry.Builder()
        .setScope(AclEntryScope.ACCESS)

```

```

.setType(AclEntryType.USER)
.setPermission(perm.getUserAction())
.build();

// All extended access ACL entries.
boolean hasAccessAcl = false;
Iterator<AclEntry> entryIter = entries.iterator();
AclEntry curEntry = null;
while (entryIter.hasNext()) {
    curEntry = entryIter.next();
    if (curEntry.getScope() == AclEntryScope.DEFAULT) {
        break;
    }
    hasAccessAcl = true;
    acl.add(curEntry);
}

// Mask entry implied by group permission bits, or group entry if there is
// no access ACL (only default ACL).
acl.add(new AclEntry.Builder()
    .setScope(AclEntryScope.ACCESS)
    .setType(hasAccessAcl ? AclEntryType.MASK : AclEntryType.GROUP)
    .setPermission(perm.getGroupAction())
    .build());

// Other entry implied by other bits.
acl.add(new AclEntry.Builder()
    .setScope(AclEntryScope.ACCESS)
    .setType(AclEntryType.OTHER)
    .setPermission(perm.getOtherAction())
    .build());

// Default ACL entries.
if (curEntry != null && curEntry.getScope() == AclEntryScope.DEFAULT) {
    acl.add(curEntry);
    while (entryIter.hasNext()) {
        acl.add(entryIter.next());
    }
}

return acl;
}

/**
 * Translates the given permission bits to the equivalent minimal ACL.
 *
 * @param perm FsPermission to translate
 * @return List<AclEntry> containing exactly 3 entries representing the owner,

```

```

* group and other permissions
*/
public static List<AclEntry> getMinimalAcl(FsPermission perm) {
    return Lists.newArrayList(
        new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.USER)
            .setPermission(perm.getUserAction())
            .build(),
        new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.GROUP)
            .setPermission(perm.getGroupAction())
            .build(),
        new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.OTHER)
            .setPermission(perm.getOtherAction())
            .build());
    }

/**
 * Checks if the given entries represent a minimal ACL (contains exactly 3
 * entries).
 *
 * @param entries List<AclEntry> entries to check
 * @return boolean true if the entries represent a minimal ACL
 */
public static boolean isMinimalAcl(List<AclEntry> entries) {
    return entries.size() == 3;
}

/**
 * There is no reason to instantiate this class.
 */
private AclUtil() {
}

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*/

```

```
package org.apache.hadoop.fs.permission;
```

```
import java.util.regex.Pattern;
```

```
import org.apache.hadoop.classification.InterfaceAudience;
```

```
import org.apache.hadoop.classification.InterfaceStability;
```

```
/**
```

```

* Parse umask value provided as a string, either in octal or symbolic
* format and return it as a short value. Umask values are slightly
* different from standard modes as they cannot specify sticky bit
* or X.
*
*/

```

```
@InterfaceAudience.Private
```

```
@InterfaceStability.Unstable
```

```
class UmaskParser extends PermissionParser {
```

```
    private static Pattern chmodOctalPattern =
```

```
        Pattern.compile("^\\s*[+]?(0*)([0-7]{3})\\s*$"); // no leading 1 for sticky bit
```

```
    private static Pattern umaskSymbolicPattern = /* not allow X or t */
```

```
        Pattern.compile("\\G\\s*([ugoa]*)([+=-]+)([rwx]*)([l,\\s]*)\\s*");
```

```
    final short umaskMode;
```

```
    public UmaskParser(String modeStr) throws IllegalArgumentException {
```

```
        super(modeStr, umaskSymbolicPattern, chmodOctalPattern);
```

```
        umaskMode = (short)combineModes(0, false);
```

```
    }
```

```
/**
```

```

* To be used for file/directory creation only. Symbolic umask is applied
* relative to file mode creation mask; the permission op characters '+'
* results in clearing the corresponding bit in the mask, '-' results in bits
* for indicated permission to be set in the mask.
*

```

```

* For octal umask, the specified bits are set in the file mode creation mask.
*

```

```

* @return umask
*/

```

```
public short getUMask() {
```

```
    if (symbolic) {
```

```

    // Return the complement of octal equivalent of umask that was computed
    return (short) (~umaskMode & 0777);
}
return umaskMode;
}
}
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 */
package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * Specifies the scope or intended usage of an ACL entry.
 */
@InterfaceAudience.Public
@InterfaceStability.Stable
public enum AclEntryScope {
    /**
     * An ACL entry that is inspected during permission checks to enforce
     * permissions.
     */
    ACCESS,

    /**
     * An ACL entry to be applied to a directory's children that do not otherwise
     * have their own ACL defined. Unlike an access ACL entry, a default ACL
     * entry is not inspected as part of permission enforcement on the directory
     * that owns it.
     */
    DEFAULT;
}

```

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 */
package org.apache.hadoop.fs.permission;
```

```
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
```

```
/**
 * Specifies the type of an ACL entry.
 */
@InterfaceAudience.Public
@InterfaceStability.Stable
public enum AclEntryType {
/**
 * An ACL entry applied to a specific user. These ACL entries can be unnamed,
 * which applies to the file owner, or named, which applies to the specific
 * named user.
 */
    USER,
```

```
/**
 * An ACL entry applied to a specific group. These ACL entries can be
 * unnamed, which applies to the file's group, or named, which applies to the
 * specific named group.
 */
    GROUP,
```

```
/**
 * An ACL mask entry. Mask entries are unnamed. During permission checks,
 * the mask entry interacts with all ACL entries that are members of the group
 * class. This consists of all named user entries, the unnamed group entry,
 * and all named group entries. For each such entry, any permissions that are
 * absent from the mask entry are removed from the effective permissions used
```

\* during the permission check.

\*/

MASK,

/\*\*

\* An ACL entry that applies to all other users that were not covered by one

\* of the more specific ACL entry types.

\*/

OTHER;

@Override

@InterfaceStability.Unstable

public String toString() {

    // This currently just delegates to the stable string representation, but it

    // is permissible for the output of this method to change across versions.

    return toStringStable();

}

/\*\*

\* Returns a string representation guaranteed to be stable across versions to

\* satisfy backward compatibility requirements, such as for shell command

\* output or serialization.

\*

\* @return stable, backward compatible string representation

\*/

public String toStringStable() {

    // The base implementation uses the enum value names, which are public API

    // and therefore stable.

    return super.toString();

}

}

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org.eclipse.jetty.toolchain:jetty-schemas

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For portions of the native implementation of slicing-by-8 CRC calculation  
in src/main/native/src/org/apache/hadoop/util:

```
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 */
```

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

```
/*  
 LZ4 - Fast LZ compression algorithm  
 Header File  
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```

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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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 */
```

For portions of the native implementation of slicing-by-8 CRC calculation  
in src/main/native/src/org/apache/hadoop/util:

```
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 */
```

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

```
/*
LZ4 - Fast LZ compression algorithm
```

Header File

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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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`hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css`

`hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js`

`hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/`

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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\*/

```
package org.apache.hadoop.fs.permission;
```

```
import java.util.List;
```

```
import org.apache.hadoop.classification.InterfaceAudience;
```

```
import org.apache.hadoop.classification.InterfaceStability;
```

```
import com.google.common.base.Objects;
```

```
import com.google.common.base.Preconditions;
```

```
import com.google.common.collect.Lists;
```

/\*\*

```

* An AclStatus contains the ACL information of a specific file. AclStatus
* instances are immutable. Use a {@link Builder} to create a new instance.
*/
@InterfaceAudience.Public
@InterfaceStability.Stable
public class AclStatus {
    private final String owner;
    private final String group;
    private final boolean stickyBit;
    private final List<AclEntry> entries;
    private final FsPermission permission;

    /**
     * Returns the file owner.
     *
     * @return String file owner
     */
    public String getOwner() {
        return owner;
    }

    /**
     * Returns the file group.
     *
     * @return String file group
     */
    public String getGroup() {
        return group;
    }

    /**
     * Returns the sticky bit.
     *
     * @return boolean sticky bit
     */
    public boolean isStickyBit() {
        return stickyBit;
    }

    /**
     * Returns the list of all ACL entries, ordered by their natural ordering.
     *
     * @return List<AclEntry> unmodifiable ordered list of all ACL entries
     */
    public List<AclEntry> getEntries() {
        return entries;
    }
}

```



```

/**
 * Returns the permission set for the path
 * @return { @link FsPermission} for the path
 */
public FsPermission getPermission() {
    return permission;
}

@Override
public boolean equals(Object o) {
    if (o == null) {
        return false;
    }
    if (getClass() != o.getClass()) {
        return false;
    }
    AclStatus other = (AclStatus)o;
    return Objects.equal(owner, other.owner)
        && Objects.equal(group, other.group)
        && stickyBit == other.stickyBit
        && Objects.equal(entries, other.entries);
}

@Override
public int hashCode() {
    return Objects.hashCode(owner, group, stickyBit, entries);
}

@Override
public String toString() {
    return new StringBuilder()
        .append("owner: ").append(owner)
        .append(", group: ").append(group)
        .append(", acl: {")
        .append("entries: ").append(entries)
        .append(", stickyBit: ").append(stickyBit)
        .append('}')
        .toString();
}

/**
 * Builder for creating new Acl instances.
 */
public static class Builder {
    private String owner;
    private String group;
    private boolean stickyBit;
    private List<AclEntry> entries = Lists.newArrayList();
}

```

```

private FsPermission permission = null;

/**
 * Sets the file owner.
 *
 * @param owner String file owner
 * @return Builder this builder, for call chaining
 */
public Builder owner(String owner) {
    this.owner = owner;
    return this;
}

/**
 * Sets the file group.
 *
 * @param group String file group
 * @return Builder this builder, for call chaining
 */
public Builder group(String group) {
    this.group = group;
    return this;
}

/**
 * Adds an ACL entry.
 *
 * @param e AclEntry entry to add
 * @return Builder this builder, for call chaining
 */
public Builder addEntry(AclEntry e) {
    this.entries.add(e);
    return this;
}

/**
 * Adds a list of ACL entries.
 *
 * @param entries AclEntry entries to add
 * @return Builder this builder, for call chaining
 */
public Builder addEntries(Iterable<AclEntry> entries) {
    for (AclEntry e : entries)
        this.entries.add(e);
    return this;
}

/**

```

```

* Sets sticky bit. If this method is not called, then the builder assumes
* false.
*
* @param stickyBit
*     boolean sticky bit
* @return Builder this builder, for call chaining
*/
public Builder stickyBit(boolean stickyBit) {
    this.stickyBit = stickyBit;
    return this;
}

/**
* Sets the permission for the file.
* @param permission
*/
public Builder setPermission(FsPermission permission) {
    this.permission = permission;
    return this;
}

/**
* Builds a new AclStatus populated with the set properties.
*
* @return AclStatus new AclStatus
*/
public AclStatus build() {
    return new AclStatus(owner, group, stickyBit, entries, permission);
}
}

/**
* Private constructor.
*
* @param file Path file associated to this ACL
* @param owner String file owner
* @param group String file group
* @param stickyBit the sticky bit
* @param entries the ACL entries
* @param permission permission of the path
*/
private AclStatus(String owner, String group, boolean stickyBit,
    Iterable<AclEntry> entries, FsPermission permission) {
    this.owner = owner;
    this.group = group;
    this.stickyBit = stickyBit;
    this.entries = Lists.newArrayList(entries);
    this.permission = permission;
}

```

```

}

/**
 * Get the effective permission for the AclEntry
 * @param entry AclEntry to get the effective action
 */
public FsAction getEffectivePermission(AclEntry entry) {
    return getEffectivePermission(entry, permission);
}

/**
 * Get the effective permission for the AclEntry. <br>
 * Recommended to use this API ONLY if client communicates with the old
 * NameNode, needs to pass the Permission for the path to get effective
 * permission, else use { @link AclStatus#getEffectivePermission(AclEntry)}.
 * @param entry AclEntry to get the effective action
 * @param permArg Permission for the path. However if the client is NOT
 * communicating with old namenode, then this argument will not have
 * any preference.
 * @return Returns the effective permission for the entry.
 * @throws IllegalArgumentException If the client communicating with old
 * namenode and permission is not passed as an argument.
 */
public FsAction getEffectivePermission(AclEntry entry, FsPermission permArg)
    throws IllegalArgumentException {
    // At least one permission bits should be available.
    Preconditions.checkArgument(this.permission != null || permArg != null,
        "Permission bits are not available to calculate effective permission");
    if (this.permission != null) {
        // permission bits from server response will have the priority for
        // accuracy.
        permArg = this.permission;
    }
    if ((entry.getName() != null || entry.getType() == AclEntryType.GROUP)) {
        if (entry.getScope() == AclEntryScope.ACCESS) {
            FsAction entryPerm = entry.getPermission();
            return entryPerm.and(permArg.getGroupAction());
        } else {
            Preconditions.checkArgument(this.entries.contains(entry)
                && this.entries.size() >= 3,
                "Passed default ACL entry not found in the list of ACLs");
            // default mask entry for effective permission calculation will be the
            // penultimate entry. This can be mask entry in case of extended ACLs.
            // In case of minimal ACL, this is the owner group entry, and we end up
            // intersecting group FsAction with itself, which is a no-op.
            FsAction defaultMask = this.entries.get(this.entries.size() - 2)
                .getPermission();
            FsAction entryPerm = entry.getPermission();

```

```

        return entryPerm.and(defaultMask);
    }
} else {
    return entry.getPermission();
}
}
}
}
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 */
package org.apache.hadoop.fs.permission;

import java.util.regex.Pattern;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.fs.FileStatus;

/**
 * Parse a permission mode passed in from a chmod command and apply that
 * mode against an existing file.
 */
@InterfaceAudience.Private
@InterfaceStability.Unstable
public class ChmodParser extends PermissionParser {
    private static Pattern chmodOctalPattern =
        Pattern.compile("^\\s*[+]?([01]?)([0-7]{3})\\s*$");
    private static Pattern chmodNormalPattern =
        Pattern.compile("\\G\\s*([ugoa]*)([+|=|-]+)([rwxXt]+)([,\\s]*)\\s*");

    public ChmodParser(String modeStr) throws IllegalArgumentException {
        super(modeStr, chmodNormalPattern, chmodOctalPattern);
    }
}

```

```

/**
 * Apply permission against specified file and determine what the
 * new mode would be
 * @param file File against which to apply mode
 * @return File's new mode if applied.
 */
public short applyNewPermission(FileStatus file) {
    FsPermission perms = file.getPermission();
    int existing = perms.toShort();
    boolean exeOk = file.isDirectory() || (existing & 0111) != 0;

    return (short)combineModes(existing, exeOk);
}
}
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 */
package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * File system actions, e.g. read, write, etc.
 */
@InterfaceAudience.Public
@InterfaceStability.Stable
public enum FsAction {
    // POSIX style
    NONE("---"),
    EXECUTE("--x"),
    WRITE("-w-"),
    WRITE_EXECUTE("-wx"),
    READ("r--"),

```

```

READ_EXECUTE("r-x"),
READ_WRITE("rw-"),
ALL("rwx");

/** Retain reference to value array. */
private final static FsAction[] vals = values();

/** Symbolic representation */
public final String SYMBOL;

private FsAction(String s) {
    SYMBOL = s;
}

/**
 * Return true if this action implies that action.
 * @param that
 */
public boolean implies(FsAction that) {
    if (that != null) {
        return (ordinal() & that.ordinal()) == that.ordinal();
    }
    return false;
}

/** AND operation. */
public FsAction and(FsAction that) {
    return vals[ordinal() & that.ordinal()];
}

/** OR operation. */
public FsAction or(FsAction that) {
    return vals[ordinal() | that.ordinal()];
}

/** NOT operation. */
public FsAction not() {
    return vals[7 - ordinal()];
}

/**
 * Get the FsAction enum for String representation of permissions
 *
 * @param permission
 *      3-character string representation of permission. ex: rwx
 * @return Returns FsAction enum if the corresponding FsAction exists for permission.
 *      Otherwise returns null
 */
public static FsAction getFsAction(String permission) {
    for (FsAction fsAction : vals) {

```

```

    if (fsAction.SYMBOL.equals(permission)) {
        return fsAction;
    }
}
return null;
}
}
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 */
package org.apache.hadoop.fs.permission;

import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.CommonConfigurationKeys;
import org.apache.hadoop.io.Writable;
import org.apache.hadoop.io.WritableFactories;
import org.apache.hadoop.io.WritableFactory;

/**
 * A class for file/directory permissions.
 */
@InterfaceAudience.Public
@InterfaceStability.Stable
public class FsPermission implements Writable {
    private static final Log LOG = LogFactory.getLog(FsPermission.class);

```



```

static final WritableFactory FACTORY = new WritableFactory() {
    @Override
    public Writable newInstance() { return new FsPermission(); }
};
static {
    // register a ctor
    WritableFactories.setFactory(FsPermission.class, FACTORY);
    WritableFactories.setFactory(ImmutableFsPermission.class, FACTORY);
}

/** Maximum acceptable length of a permission string to parse */
public static final int MAX_PERMISSION_LENGTH = 10;

/** Create an immutable {@link FsPermission} object. */
public static FsPermission createImmutable(short permission) {
    return new ImmutableFsPermission(permission);
}

//POSIX permission style
private FsAction useraction = null;
private FsAction groupaction = null;
private FsAction otheraction = null;
private boolean stickyBit = false;

private FsPermission() {}

/**
 * Construct by the given {@link FsAction}.
 * @param u user action
 * @param g group action
 * @param o other action
 */
public FsPermission(FsAction u, FsAction g, FsAction o) {
    this(u, g, o, false);
}

public FsPermission(FsAction u, FsAction g, FsAction o, boolean sb) {
    set(u, g, o, sb);
}

/**
 * Construct by the given mode.
 * @param mode
 * @see #toShort()
 */
public FsPermission(short mode) { fromShort(mode); }

/**
 * Copy constructor

```

```

*
* @param other other permission
*/
public FsPermission(FsPermission other) {
    this.useraction = other.useraction;
    this.groupaction = other.groupaction;
    this.otheraction = other.otheraction;
    this.stickyBit = other.stickyBit;
}

/**
 * Construct by given mode, either in octal or symbolic format.
 * @param mode mode as a string, either in octal or symbolic format
 * @throws IllegalArgumentException if <code>mode</code> is invalid
 */
public FsPermission(String mode) {
    this(new UmaskParser(mode).getUMask());
}

/** Return user {@link FsAction}. */
public FsAction getUserAction() {return useraction;}

/** Return group {@link FsAction}. */
public FsAction getGroupAction() {return groupaction;}

/** Return other {@link FsAction}. */
public FsAction getOtherAction() {return otheraction;}

private void set(FsAction u, FsAction g, FsAction o, boolean sb) {
    useraction = u;
    groupaction = g;
    otheraction = o;
    stickyBit = sb;
}

public void fromShort(short n) {
    FsAction[] v = FSACTION_VALUES;
    set(v[(n >>> 6) & 7], v[(n >>> 3) & 7], v[n & 7], (((n >>> 9) & 1) == 1));
}

@Override
public void write(DataOutput out) throws IOException {
    out.writeShort(toShort());
}

@Override
public void readFields(DataInput in) throws IOException {
    fromShort(in.readShort());
}

```

```

}

/**
 * Create and initialize a {@link FsPermission} from {@link DataInput}.
 */
public static FsPermission read(DataInput in) throws IOException {
    FsPermission p = new FsPermission();
    p.readFields(in);
    return p;
}

/**
 * Encode the object to a short.
 */
public short toShort() {
    int s = (stickyBit ? 1 << 9 : 0) |
        (useraction.ordinal() << 6) |
        (groupaction.ordinal() << 3) |
        otheraction.ordinal();

    return (short)s;
}

/**
 * Encodes the object to a short. Unlike {@link #toShort()}, this method may
 * return values outside the fixed range 00000 - 01777 if extended features
 * are encoded into this permission, such as the ACL bit.
 *
 * @return short extended short representation of this permission
 */
public short toExtendedShort() {
    return toShort();
}

@Override
public boolean equals(Object obj) {
    if (obj instanceof FsPermission) {
        FsPermission that = (FsPermission)obj;
        return this.useraction == that.useraction
            && this.groupaction == that.groupaction
            && this.otheraction == that.otheraction
            && this.stickyBit == that.stickyBit;
    }
    return false;
}

@Override
public int hashCode() {return toShort();}

```

```

@Override
public String toString() {
    String str = useraction.SYMBOL + groupaction.SYMBOL + otheraction.SYMBOL;
    if(stickyBit) {
        StringBuilder str2 = new StringBuilder(str);
        str2.replace(str2.length() - 1, str2.length(),
            otheraction.implies(FsAction.EXECUTE) ? "t" : "T");
        str = str2.toString();
    }

    return str;
}

/**
 * Apply a umask to this permission and return a new one.
 *
 * The umask is used by create, mkdir, and other Hadoop filesystem operations.
 * The mode argument for these operations is modified by removing the bits
 * which are set in the umask. Thus, the umask limits the permissions which
 * newly created files and directories get.
 *
 * @param umask      The umask to use
 *
 * @return          The effective permission
 */
public FsPermission applyUMask(FsPermission umask) {
    return new FsPermission(useraction.and(umask.useraction.not()),
        groupaction.and(umask.groupaction.not()),
        otheraction.and(umask.otheraction.not()));
}

/** umask property label deprecated key and code in getUMask method
 * to accommodate it may be removed in version .23 */
public static final String DEPRECATED_UMASK_LABEL = "dfs.umask";
public static final String UMASK_LABEL =
    CommonConfigurationKeys.FS_PERMISSIONS_UMASK_KEY;
public static final int DEFAULT_UMASK =
    CommonConfigurationKeys.FS_PERMISSIONS_UMASK_DEFAULT;

private static final FsAction[] FSACTION_VALUES = FsAction.values();

/**
 * Get the user file creation mask (umask)
 *
 * { @code UMASK_LABEL } config param has umask value that is either symbolic
 * or octal.
 */

```

```

* Symbolic umask is applied relative to file mode creation mask;
* the permission op characters '+' clears the corresponding bit in the mask,
* '-' sets bits in the mask.
*
* Octal umask, the specified bits are set in the file mode creation mask.
*
* {@code DEPRECATED_UMASK_LABEL} config param has umask value set to decimal.
*/
public static FsPermission getUMask(Configuration conf) {
    int umask = DEFAULT_UMASK;

    // To ensure backward compatibility first use the deprecated key.
    // If the deprecated key is not present then check for the new key
    if(conf != null) {
        String confUmask = conf.get(UMASK_LABEL);
        int oldUmask = conf.getInt(DEPRECATED_UMASK_LABEL, Integer.MIN_VALUE);
        try {
            if(confUmask != null) {
                umask = new UmaskParser(confUmask).getUMask();
            }
        } catch(IllegalArgumentException iae) {
            // Provide more explanation for user-facing message
            String type = iae instanceof NumberFormatException ? "decimal"
                : "octal or symbolic";
            String error = "Unable to parse configuration " + UMASK_LABEL
                + " with value " + confUmask + " as " + type + " umask.";
            LOG.warn(error);

            // If oldUmask is not set, then throw the exception
            if (oldUmask == Integer.MIN_VALUE) {
                throw new IllegalArgumentException(error);
            }
        }
    }

    if(oldUmask != Integer.MIN_VALUE) { // Property was set with old key
        if (umask != oldUmask) {
            LOG.warn(DEPRECATED_UMASK_LABEL
                + " configuration key is deprecated. " + "Convert to "
                + UMASK_LABEL + ", using octal or symbolic umask "
                + "specifications.");
            // Old and new umask values do not match - Use old umask
            umask = oldUmask;
        }
    }
}

return new FsPermission((short)umask);
}

```

```

public boolean getStickyBit() {
    return stickyBit;
}

/**
 * Returns true if there is also an ACL (access control list).
 *
 * @return boolean true if there is also an ACL (access control list).
 */
public boolean getAclBit() {
    // File system subclasses that support the ACL bit would override this.
    return false;
}

/**
 * Returns true if the file is encrypted or directory is in an encryption zone
 */
public boolean getEncryptedBit() {
    return false;
}

/** Set the user file creation mask (umask) */
public static void setUMask(Configuration conf, FsPermission umask) {
    conf.set(UMASK_LABEL, String.format("%1$03o", umask.toShort()));
    conf.setInt(DEPRECATED_UMASK_LABEL, umask.toShort());
}

/**
 * Get the default permission for directory and symlink.
 * In previous versions, this default permission was also used to
 * create files, so files created end up with ugo+x permission.
 * See HADOOP-9155 for detail.
 * Two new methods are added to solve this, please use
 * {@link FsPermission#getDirDefault()} for directory, and use
 * {@link FsPermission#getFileDefault()} for file.
 * This method is kept for compatibility.
 */
public static FsPermission getDefault() {
    return new FsPermission((short)00777);
}

/**
 * Get the default permission for directory.
 */
public static FsPermission getDirDefault() {
    return new FsPermission((short)00777);
}

```

```

/**
 * Get the default permission for file.
 */
public static FsPermission getFileDefault() {
    return new FsPermission((short)00666);
}

/**
 * Get the default permission for cache pools.
 */
public static FsPermission getCachePoolDefault() {
    return new FsPermission((short)00755);
}

/**
 * Create a FsPermission from a Unix symbolic permission string
 * @param unixSymbolicPermission e.g. "-rw-rw-rw-"
 */
public static FsPermission valueOf(String unixSymbolicPermission) {
    if (unixSymbolicPermission == null) {
        return null;
    }
    else if (unixSymbolicPermission.length() != MAX_PERMISSION_LENGTH) {
        throw new IllegalArgumentException(String.format(
            "length != %d(unixSymbolicPermission=%s)", MAX_PERMISSION_LENGTH,
            unixSymbolicPermission));
    }

    int n = 0;
    for(int i = 1; i < unixSymbolicPermission.length(); i++) {
        n = n << 1;
        char c = unixSymbolicPermission.charAt(i);
        n += (c == '-' || c == 'T' || c == 'S') ? 0: 1;
    }

    // Add sticky bit value if set
    if(unixSymbolicPermission.charAt(9) == 't' ||
        unixSymbolicPermission.charAt(9) == 'T')
        n += 01000;

    return new FsPermission((short)n);
}

private static class ImmutableFsPermission extends FsPermission {
    public ImmutableFsPermission(short permission) {
        super(permission);
    }
}

```

```

@Override
public void readFields(DataInput in) throws IOException {
    throw new UnsupportedOperationException();
}
}
}
/**
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 * limitations under the License.
 */
package org.apache.hadoop.fs.permission;

import java.util.Collections;
import java.util.List;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.fs.permission.AclEntry;
import org.apache.hadoop.fs.permission.AclEntryScope;

/**
 * Groups a list of ACL entries into separate lists for access entries vs.
 * default entries.
 */
@InterfaceAudience.LimitedPrivate({"HDFS", "MapReduce"})
@InterfaceStability.Unstable
public final class ScopedAclEntries {
    private static final int PIVOT_NOT_FOUND = -1;

    private final List<AclEntry> accessEntries;
    private final List<AclEntry> defaultEntries;

    /**
     * Creates a new ScopedAclEntries from the given list. It is assumed that the

```



```

* list is already sorted such that all access entries precede all default
* entries.
*
* @param aclEntries List<AclEntry> to separate
*/
public ScopedAclEntries(List<AclEntry> aclEntries) {
    int pivot = calculatePivotOnDefaultEntries(aclEntries);
    if (pivot != PIVOT_NOT_FOUND) {
        accessEntries = pivot != 0 ? aclEntries.subList(0, pivot) :
            Collections.<AclEntry>emptyList();
        defaultEntries = aclEntries.subList(pivot, aclEntries.size());
    } else {
        accessEntries = aclEntries;
        defaultEntries = Collections.emptyList();
    }
}

/**
 * Returns access entries.
 *
 * @return List<AclEntry> containing just access entries, or an empty list if
 * there are no access entries
 */
public List<AclEntry> getAccessEntries() {
    return accessEntries;
}

/**
 * Returns default entries.
 *
 * @return List<AclEntry> containing just default entries, or an empty list if
 * there are no default entries
 */
public List<AclEntry> getDefaultEntries() {
    return defaultEntries;
}

/**
 * Returns the pivot point in the list between the access entries and the
 * default entries. This is the index of the first element in the list that is
 * a default entry.
 *
 * @param aclBuilder ArrayList<AclEntry> containing entries to build
 * @return int pivot point, or -1 if list contains no default entries
 */
private static int calculatePivotOnDefaultEntries(List<AclEntry> aclBuilder) {
    for (int i = 0; i < aclBuilder.size(); ++i) {
        if (aclBuilder.get(i).getScope() == AclEntryScope.DEFAULT) {

```

```

    return i;
  }
}
return PIVOT_NOT_FOUND;
}
}
/**
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 * limitations under the License.
 */
package org.apache.hadoop.fs.permission;

import java.io.IOException;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * An exception class for access control related issues.
 * @deprecated Use {@link org.apache.hadoop.security.AccessControlException}
 * instead.
 */
@Deprecated
@InterfaceAudience.Public
@InterfaceStability.Stable
public class AccessControlException extends IOException {
  //Required by {@link java.io.Serializable}.
  private static final long serialVersionUID = 1L;

  /**
   * Default constructor is needed for unwrapping from
   * {@link org.apache.hadoop.ipc.RemoteException}.
   */
  public AccessControlException() {
    super("Permission denied.");
  }
}

```

```

}

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

/**
 * Constructs a new exception with the specified cause and a detail
 * message of <tt>(cause==null ? null : cause.toString())</tt> (which
 * typically contains the class and detail message of <tt>cause</tt>).
 * @param cause the cause (which is saved for later retrieval by the
 *     {@link #getCause()} method). (A <tt>>null</tt> value is
 *     permitted, and indicates that the cause is nonexistent or
 *     unknown.)
 */
public AccessControlException(Throwable cause) {
    super(cause);
}
}
}
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 */
package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.io.*;

import java.io.DataInput;

```

```

import java.io.DataOutput;
import java.io.IOException;

/**
 * Store permission related information.
 */
@interface Audience.LimitedPrivate({"HDFS", "MapReduce"})
@interface Stability.Unstable
public class PermissionStatus implements Writable {
    static final WritableFactory FACTORY = new WritableFactory() {
        @Override
        public Writable newInstance() { return new PermissionStatus(); }
    };
    static {
        // register a ctor
        WritableFactories.setFactory(PermissionStatus.class, FACTORY);
    }

    /** Create an immutable {@link PermissionStatus} object. */
    public static PermissionStatus createImmutable(
        String user, String group, FsPermission permission) {
        return new PermissionStatus(user, group, permission) {
            @Override
            public PermissionStatus applyUMask(FsPermission umask) {
                throw new UnsupportedOperationException();
            }
            @Override
            public void readFields(DataInput in) throws IOException {
                throw new UnsupportedOperationException();
            }
        };
    }

    private String username;
    private String groupname;
    private FsPermission permission;

    private PermissionStatus() {}

    /** Constructor */
    public PermissionStatus(String user, String group, FsPermission permission) {
        username = user;
        groupname = group;
        this.permission = permission;
    }

    /** Return user name */
    public String getUserName() {return username;}

```

```

/** Return group name */
public String getGroupName() {return groupname;}

/** Return permission */
public FsPermission getPermission() {return permission;}

/**
 * Apply umask.
 * @see FsPermission#applyUMask(FsPermission)
 */
public PermissionStatus applyUMask(FsPermission umask) {
    permission = permission.applyUMask(umask);
    return this;
}

@Override
public void readFields(DataInput in) throws IOException {
    username = Text.readString(in, Text.DEFAULT_MAX_LEN);
    groupname = Text.readString(in, Text.DEFAULT_MAX_LEN);
    permission = FsPermission.read(in);
}

@Override
public void write(DataOutput out) throws IOException {
    write(out, username, groupname, permission);
}

/**
 * Create and initialize a {@link PermissionStatus} from {@link DataInput}.
 */
public static PermissionStatus read(DataInput in) throws IOException {
    PermissionStatus p = new PermissionStatus();
    p.readFields(in);
    return p;
}

/**
 * Serialize a {@link PermissionStatus} from its base components.
 */
public static void write(DataOutput out,
                        String username,
                        String groupname,
                        FsPermission permission) throws IOException {
    Text.writeString(out, username, Text.DEFAULT_MAX_LEN);
    Text.writeString(out, groupname, Text.DEFAULT_MAX_LEN);
    permission.write(out);
}

```

```

@Override
public String toString() {
    return username + ":" + groupname + ":" + permission;
}
}
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 * limitations under the License.
 */
package org.apache.hadoop.fs.permission;

import java.util.Iterator;
import java.util.List;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

import com.google.common.collect.Lists;

/**
 * AclUtil contains utility methods for manipulating ACLs.
 */
@InterfaceAudience.LimitedPrivate({"HDFS", "MapReduce"})
@InterfaceStability.Unstable
public final class AclUtil {

    /**
     * Given permissions and extended ACL entries, returns the full logical ACL.
     *
     * @param perm FsPermission containing permissions
     * @param entries List<AclEntry> containing extended ACL entries
     * @return List<AclEntry> containing full logical ACL
     */
    public static List<AclEntry> getAclFromPermAndEntries(FsPermission perm,
        List<AclEntry> entries) {

```

```

List<AclEntry> acl = Lists.newArrayListWithCapacity(entries.size() + 3);

// Owner entry implied by owner permission bits.
acl.add(new AclEntry.Builder()
    .setScope(AclEntryScope.ACCESS)
    .setType(AclEntryType.USER)
    .setPermission(perm.getUserAction())
    .build());

// All extended access ACL entries.
boolean hasAccessAcl = false;
Iterator<AclEntry> entryIter = entries.iterator();
AclEntry curEntry = null;
while (entryIter.hasNext()) {
    curEntry = entryIter.next();
    if (curEntry.getScope() == AclEntryScope.DEFAULT) {
        break;
    }
    hasAccessAcl = true;
    acl.add(curEntry);
}

// Mask entry implied by group permission bits, or group entry if there is
// no access ACL (only default ACL).
acl.add(new AclEntry.Builder()
    .setScope(AclEntryScope.ACCESS)
    .setType(hasAccessAcl ? AclEntryType.MASK : AclEntryType.GROUP)
    .setPermission(perm.getGroupAction())
    .build());

// Other entry implied by other bits.
acl.add(new AclEntry.Builder()
    .setScope(AclEntryScope.ACCESS)
    .setType(AclEntryType.OTHER)
    .setPermission(perm.getOtherAction())
    .build());

// Default ACL entries.
if (curEntry != null && curEntry.getScope() == AclEntryScope.DEFAULT) {
    acl.add(curEntry);
    while (entryIter.hasNext()) {
        acl.add(entryIter.next());
    }
}

return acl;
}

```

```

/**
 * Translates the given permission bits to the equivalent minimal ACL.
 *
 * @param perm FsPermission to translate
 * @return List<AclEntry> containing exactly 3 entries representing the owner,
 *         group and other permissions
 */
public static List<AclEntry> getMinimalAcl(FsPermission perm) {
    return Lists.newArrayList(
        new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.USER)
            .setPermission(perm.getUserAction())
            .build(),
        new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.GROUP)
            .setPermission(perm.getGroupAction())
            .build(),
        new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.OTHER)
            .setPermission(perm.getOtherAction())
            .build());
}

```

```

/**
 * Checks if the given entries represent a minimal ACL (contains exactly 3
 * entries).
 *
 * @param entries List<AclEntry> entries to check
 * @return boolean true if the entries represent a minimal ACL
 */
public static boolean isMinimalAcl(List<AclEntry> entries) {
    return entries.size() == 3;
}

```

```

/**
 * There is no reason to instantiate this class.
 */
private AclUtil() {
}
}
2

```

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org/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/PermissionStatus;CodeLineNu
mberTableLocalVariableTableusergroup<init>()Vthis2Lorg/apache/hadoop/fs/permission/PermissionStatus;U(Ljava
/lang/String;Ljava/lang/String;Lorg/apache/hadoop/fs/permission/FsPermission;)VgetUserNam(Ljava/lang/String;
getGroupName
getPermission0()Lorg/apache/hadoop/fs/permission/FsPermission;
applyUMaskb(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/PermissionStat
us;umask
readFields(Ljava/io/DataInput;)VinLjava/io/DataInput;
Exceptionstwrite(Ljava/io/DataOutput;)VoutLjava/io/DataOutput;readG(Ljava/io/DataInput;)Lorg/apache/hadoop/fs
/permission/PermissionStatus;pi(Ljava/io/DataOutput;Ljava/lang/String;Ljava/lang/String;Lorg/apache/hadoop/fs/pe
rmission/FsPermission;)VtoString7(Lorg/apache/hadoop/fs/permission/PermissionStatus$1;)Vx04Lorg/apache/hado
op/fs/permission/PermissionStatus$1;<clinit>
SourceFilePermissionStatus.javaRuntimeVisibleAnnotationsvLimitedPrivateCLorg/apache/hadoop/classification/Int
erfaceAudience$LimitedPrivate;valueHDFS
MapReduceXUnstable>Lorg/apache/hadoop/classification/InterfaceStability$Unstable;-
.2org/apache/hadoop/fs/permission/PermissionStatus$2-
1!"#$%y7z{|}D~@G0org/apache/hadoop/fs/permission/PermissionStatus;:@Ajava/lang/StringBuilder:H32org/apa
che/hadoop/fs/permission/PermissionStatus$1
java/lang/Objectorg/apache/hadoop/io/Writablejava/io/IOExceptionAorg/apache/hadoop/classification/InterfaceAud
ience$LimitedPrivate<org/apache/hadoop/classification/InterfaceStability$Unstable,org/apache/hadoop/fs/permisio
n/FsPermission^(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/FsPermission
;org/apache/hadoop/io/Text
readString((Ljava/io/DataInput;I)Ljava/lang/String;C(Ljava/io/DataInput;)Lorg/apache/hadoop/fs/permission/FsPer
mission;writeString*(Ljava/io/DataOutput;Ljava/lang/String;I)Iappend-
(Ljava/lang/String;)Ljava/lang/StringBuilder;-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;&org/apache/hadoop/io/WritableFactories
setFactory:(Ljava/lang/Class;Lorg/apache/hadoop/io/WritableFactory;)V2org/apache/hadoop/classification/Interface
Audience3org/apache/hadoop/classification/InterfaceStability!

```

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!"#$% &'(Y*+,-* +", "$%-(/*)=*/0-1(I**+*,*)@A BCD**/0+", "$%23(/*)G*/043(/*)J*/056(/*)M*/078(F**+*)
TU*/09%:;{)*+
*+
*+)Z
[ ]*/0<=>?@A(I+****)
ab*/0BC>? DE(K
YL+*+)hi
j*<=F0>? @G(j*+ W*, W-*)tuvw**BC!"#$%>?H3(T*Y****){**/0-I(9*)!*/0JKL.(4Y
)"
'(MNORS[sTsUX"PuQ& VwW&
2G 2
345
6
7
8 9 : ;
<=USER.Lorg/apache/hadoop/fs/permission/AclEntryType;GROUPMASKOTHER$VALUES/[Lorg/apache/hadoo
p/fs/permission/AclEntryType;values1()[Lorg/apache/hadoop/fs/permission/AclEntryType;CodeLineNumberTablev
alueOfB(Ljava/lang/String;)Lorg/apache/hadoop/fs/permission/AclEntryType;LocalVariableTableNameLjava/lang/S
tring;<init>(Ljava/lang/String;I)Vthis
Signature()V<clinit>@Ljava/lang/Enum<Lorg/apache/hadoop/fs/permission/AclEntryType;>;
SourceFileAclEntryType.javaRuntimeVisibleAnnotations?PublicInnerClasses;Lorg/apache/hadoop/classification/Int
erfaceAudience$Public;AEvolving>Lorg/apache/hadoop/classification/InterfaceStability$Evolving;BC,org/apache/h
adoop/fs/permission/AclEntryTypeD!"!"java/lang/EnumE9org/apache/hadoop/classification/InterfaceAudience$Pub
licF<org/apache/hadoop/classification/InterfaceStability$Evolvingclone()Ljava/lang/Object;5(Ljava/lang/Class;Ljav
a/lang/String;)Ljava/lang/Enum;2org/apache/hadoop/classification/InterfaceAudience3org/apache/hadoop/classificat
ion/InterfaceStability@1@@@@"
5* !"1*+##$%&%|TY Y
Y
YY SYSY
SYS"
)3'94$()*
.1-+>,& /@0&
2

<init>()VCodeLineNumberTableLocalVariableTablethisInnerClasses0Lorg/apache/hadoop/fs/permission/FsPermiss
ion$1;newInstance!()Lorg/apache/hadoop/io/Writable;
SourceFileFsPermission.javaEnclosingMethod,org/apache/hadoop/fs/permission/FsPermission.org/apache/hadoop/f
s/permission/FsPermission$1java/lang/Object$org/apache/hadoop/io/WritableFactory3(Lorg/apache/hadoop/fs/permi
ssion/FsPermission$1;)V0 /*
* 3 Y
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U V W X Y
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nopInnerClassesqBuilderownerLjava/lang/String;group stickyBitZentriesLjava/util/List;

Signature<Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;getOwner()Ljava/lang/String;CodeLineNu  
mberTableLocalVariableTablethis+Lorg/apache/hadoop/fs/permission/AclStatus;getGroupisStickyBit(Z  
getEntries()Ljava/util/List;>()Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;equals(Ljava/lang/Obj  
ect;)ZoLjava/lang/Object;other

StackMapTable[hashCode()ItoString<init><(Ljava/lang/String;Ljava/lang/String;ZLjava/lang/Iterable;)VLjava/lang  
/Iterable;LocalVariableTypeTable@Ljava/lang/Iterable<Lorg/apache/hadoop/fs/permission/AclEntry;>;h(Ljava/lan  
g/String;Ljava/lang/String;ZLjava/lang/Iterable<Lorg/apache/hadoop/fs/permission/AclEntry;>;)Vi(Ljava/lang/Strin  
g;Ljava/lang/String;ZLjava/lang/Iterable;Lorg/apache/hadoop/fs/permission/AclStatus\$1;)Vx0x1x2x3x4-  
Lorg/apache/hadoop/fs/permission/AclStatus\$1;

SourceFileAclStatus.javaRuntimeVisibleAnnotationssPublic;Lorg/apache/hadoop/classification/InterfaceAudience\$  
Public;uEvolving>Lorg/apache/hadoop/classification/InterfaceStability\$Evolving;?@ !

"#%vw)org/apache/hadoop/fs/permission/AclStatusxyzjava/lang/Object{}<~java/lang/StringBuilder?owner: ,  
group: , acl: { entries:  
, stickyBit:

>)+org/apache/hadoop/fs/permission/AclStatus\$1 org/apache/hadoop/fs/permission/AclStatus\$Builder9org/apache/  
hadoop/classification/InterfaceAudience\$Public<org/apache/hadoop/classification/InterfaceStability\$EvolvinggetCl  
ass()Ljava/lang/Class;com/google/common/base/Objectsequal'(Ljava/lang/Object;Ljava/lang/Object;)Zjava/lang/Bo  
oleanvalueOf(Z)Ljava/lang/Boolean;([Ljava/lang/Object;)I()Vappend-  
(Ljava/lang/String;)Ljava/lang/StringBuilder;-  
(Ljava/lang/Object;)Ljava/lang/StringBuilder;(Z)Ljava/lang/StringBuilder;(C)Ljava/lang/StringBuilder;com/google/  
common/collect/ListsnewArrayList+(Ljava/lang/Iterable;)Ljava/util/ArrayList;2org/apache/hadoop/classification/Int  
erfaceAudience3org/apache/hadoop/classification/InterfaceStability! ! "#\$%&'()\*+,-./)\*+7,-.01)\*+@,-  
.23)\*+I,-.&456\*S+\*+M\*.,\* ,\*,+NOQRTU, S-.S78;9.:=;@<=\*Q' Y\*SY\*SY\*  
SY\*S+],'.>)\*oEY

\*\*\*\* }+b,E-.?@\*\*\*+\*,\*\*+ ,4-. ! "#\$AB\$C&D?E\*f

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45ACCESS/Lorg/apache/hadoop/fs/permission/AclEntryScope;DEFAULT\$VALUES0[Lorg/apache/hadoop/fs/per  
mission/AclEntryScope;values2()[Lorg/apache/hadoop/fs/permission/AclEntryScope;CodeLineNumberTablevalueO  
fC(Ljava/lang/String;)Lorg/apache/hadoop/fs/permission/AclEntryScope;LocalVariableTablenameLjava/lang/String

```

<init>(Ljava/lang/String;)Vthis
Signature()V<clinit>ALjava/lang/Enum<Lorg/apache/hadoop/fs/permission/AclEntryScope;>;
SourceFileAclEntryScope.javaRuntimeVisibleAnnotations7PublicInnerClasses;Lorg/apache/hadoop/classification/I
nterfaceAudience$Public;9Evolving>Lorg/apache/hadoop/classification/InterfaceStability$Evolving;;-
org/apache/hadoop/fs/permission/AclEntryScope<
java/lang/Enum=9org/apache/hadoop/classification/InterfaceAudience$Public><org/apache/hadoop/classification/In
terfaceStability$Evolvingclone()Ljava/lang/Object;5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;2org/apa
che/hadoop/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStability@1@
@ "
5*1*+ N.Y Y
Y SYS!
)!"#$
(+%6&& )8*&
2

SourceFile
AclEntry.javaEnclosingMethod*org/apache/hadoop/fs/permission/AclEntry$1InnerClassesjava/lang/Object(org/apa
che/hadoop/fs/permission/AclEntry
2`

;
<=>
?@ A=B C=DE
F GHIJPIVOT_NOT_FOUNDI
ConstantValue
accessEntriesLjava/util/List;
Signature<Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;defaultEntries<init>(Ljava/util/List;)VCod
eLineNumberTableLocalVariableTablethis2Lorg/apache/hadoop/fs/permission/ScopedAclEntries;
aclEntriespivotLocalVariableTypeTable
StackMapTableIK?(Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;)VgetAccessEntries()Ljava/util/L
ist;>(Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;getDefaultEntriescalculatePivotOnDefaultEntri
es(Ljava/util/List;)Ii
aclBuilder?(Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;)I
SourceFileScopedAclEntries.javaRuntimeVisibleAnnotationsMLimitedPrivateInnerClassesCLorg/apache/hadoop/cl
assification/InterfaceAudience$LimitedPrivate;valueHDFS
MapReduceOUnstable>Lorg/apache/hadoop/classification/InterfaceStability$Unstable;P)*KQRST&UVWX(org/ap
ache/hadoop/fs/permission/AclEntryYZ[\\]0org/apache/hadoop/fs/permission/ScopedAclEntriesjava/lang/Objectjava/
util/List^Aorg/apache/hadoop/classification/InterfaceAudience$LimitedPrivate_<org/apache/hadoop/classification/I
nterfaceStability$Unstable()VsubList(II)Ljava/util/List;java/util/Collections
emptyListsize()Iget(I)Ljava/lang/Object;getScope1()Lorg/apache/hadoop/fs/permission/AclEntryScope;-
org/apache/hadoop/fs/permission/AclEntryScopeDEFAULT/Lorg/apache/hadoop/fs/permission/AclEntryScope;2or
g/apache/hadoop/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStability1
E*+=-*+*++*+*/0 12$486=7D9 EE < E!)""""#%&/*B'(&/*L'
)*<**
XYZ!X']%+),),!
-./045[s6s7:31L2& 8N9&
2J

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ImmutableFsPermissionInnerClassesLOG

Lorg/apache/commons/logging/Log;FACTORY&Lorg/apache/hadoop/io/WritableFactory;MAX\_PERMISSION\_LENGTH

ConstantValue

useraction\*Lorg/apache/hadoop/fs/permission/FsAction;groupactionotheraction

stickyBitZDEPRECATED\_UMASK\_LABELLjava/lang/String;UMASK\_LABEL

DEFAULT\_UMASKFSACTION\_VALUES+[Lorg/apache/hadoop/fs/permission/FsAction;createImmutable1(S)Lorg/apache/hadoop/fs/permission/FsPermission;CodeLineNumberTableLocalVariableTable

permissionS<init>()Vthis.Lorg/apache/hadoop/fs/permission/FsPermission;(Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;)Vugo(Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;)Vsb(S)Vmode1(Lorg/apache/hadoop/fs/permission/FsPermission;)Vother(Ljava/lang/String;)V

```

getUserAction,()Lorg/apache/hadoop/fs/permission/FsAction;getGroupActiongetOtherActionset fromShortnv
StackMapTable^write(Ljava/io/DataOutput;)VoutLjava/io/DataOutput;
Exceptions
readFields(Ljava/io/DataInput;)VinLjava/io/DataInput;readC(Ljava/io/DataInput;)Lorg/apache/hadoop/fs/permisio
n/FsPermission;ptoShort()SstoExtendedShortequals(Ljava/lang/Object;)ZthatobjLjava/lang/Object;hashCode()ItoStr
ing()Ljava/lang/String;str2Ljava/lang/StringBuilder;str
applyUMask^(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/FsPermission;u
maskgetUMaskV(Lorg/apache/hadoop/conf/Configuration;)Lorg/apache/hadoop/fs/permission/FsPermission;typeerr
oriae$Ljava/lang/IllegalArgumentException;
confUmaskoldUmaskconf&Lorg/apache/hadoop/conf/Configuration;getStickyBit()Z
getAclBitgetEncryptedBitsetUMaskW(Lorg/apache/hadoop/conf/Configuration;Lorg/apache/hadoop/fs/permission/
FsPermission;)V
getDefault0(Lorg/apache/hadoop/fs/permission/FsPermission;
getDirDefaultgetFileDefaultgetCachePoolDefaultvalueOfB(Ljava/lang/String;)Lorg/apache/hadoop/fs/permission/F
sPermission;cCiunixSymbolicPermission3(Lorg/apache/hadoop/fs/permission/FsPermission$1;)Vx00Lorg/apache/h
adoop/fs/permission/FsPermission$1;<clinit>
SourceFileFsPermission.javaRuntimeVisibleAnnotationsPublic;Lorg/apache/hadoop/classification/InterfaceAudience
$Public;Stable<Lorg/apache/hadoop/classification/InterfaceStability$Stable;fgBorg/apache/hadoop/fs/permission/F
sPermission$ImmutableFsPermissionfpRSTSUSVWfnynzp+org/apache/hadoop/fs/permission/UmaskParserft]^,org/
apache/hadoop/fs/permission/FsPermission java/lang/StringBuilder!Y"#%S&'t()*v+,fjfs.permissions.umask-
mode-./ dfs.umask01"java/lang/IllegalArgumentExceptionjava/lang/NumberFormatExceptiondecimaloctal or
symbolicCUnable to parse configuration fs.permissions.umask-mode with value as umask.JK234~dfs.umask
configuration key is deprecated. Convert to fs.permissions.umask-mode, using octal or symbolic umask
specifications.%1$03ojava/lang/Object5678y9:;length !=
%d(unixSymbolicPermission=%s)<=>?@AB.org/apache/hadoop/fs/permission/FsPermission$1LMCDEFGorg/apac
he/hadoop/io/Writable(org/apache/hadoop/fs/permission/FsActionjava/io/IOExceptionjava/lang/StringH9org/apache
/hadoop/classification/InterfaceAudience$PublicI:org/apache/hadoop/classification/InterfaceStability$Stablejava/io/
DataOutput
writeShort(I)Vjava/io/DataInput readShortordinalSYMBOLappend-
(Ljava/lang/String;)Ljava/lang/StringBuilder;lengthEXECUTEimplies-
(Lorg/apache/hadoop/fs/permission/FsAction;)Zreplace/(IILjava/lang/String;)Ljava/lang/StringBuilder;notandV(Lor
g/apache/hadoop/fs/permission/FsAction;)Lorg/apache/hadoop/fs/permission/FsAction;$org/apache/hadoop/conf/Co
nfigurationget&(Ljava/lang/String;)Ljava/lang/String;getInt(Ljava/lang/String;I)Iorg/apache/commons/logging/Log
warn(Ljava/lang/Object;)Vjava/lang/Short(S)Ljava/lang/Short;format9(Ljava/lang/String;[Ljava/lang/Object;)Ljava/
lang/String;(Ljava/lang/String;Ljava/lang/String;)VsetInt(Ljava/lang/String;I)Vjava/lang/Integer(I)Ljava/lang/Integ
er;charAt(I)C%org/apache/commons/logging/LogFactorygetLog3(Ljava/lang/Class;)Lorg/apache/commons/logging
/Log;&org/apache/hadoop/io/WritableFactories
setFactory:(Ljava/lang/Class;Lorg/apache/hadoop/io/WritableFactory;)Vvalues-
()[Lorg/apache/hadoop/fs/permission/FsAction;2org/apache/hadoop/classification/InterfaceAudience3org/apache/ha
adoop/classification/InterfaceStability!7FJKLMNQPQRSTSUSVWXYYP(ZYP&[OP]^! _`a3 Yb8c defgaW*****bA<
=>?AchifjaU *+,- b
JKc* hi kS lS mSfna"*****+,-
bM< =>?N!Oc4"hi"ks"lS"mS"oWfpaf*****bV< =>?Vchiquefra9*****+*+*+*+b*
]< =>?^ _(`0a8bc9hi9siftaH*Y+
b
jkchiq Yuva/*bnchiwva/*bqchixva/*btchiynax*+*,*-*bwx
yz{c4hikSlSmSoWzpa/M*|~2,|~2,~2 |~
b~.c /hi/{e+|^}7*~::~~aC+*b

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chiaC\*+b

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<T:,-.:Y/01:23)

+Y4)253<Y'+bJ'

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cH=>YaY,OY{OO}'BA?a/\*bchia,b&chia,b-chi a`\$\*&67Y+8S9:\*(+;b23#4c\$\$i a#YbA a#YbH a#YbO a#YbV a3\*\*<

+Y=7Y

>SY\*S94<=\*<-x<\*>-T S`<\* ?t\* ?T Yb6

^\_ab,g.h8i<jBk\hboxq~sc\*B02OY.Z{O}- %\$Cfa9\*b'chigaT,@2AYBCCDCDEb( \*/0%

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InnerClassesBuildertype.Lorg/apache/hadoop/fs/permission/AclEntryType:nameLjava/lang/String;

```

permission*Lorg/apache/hadoop/fs/permission/FsAction;scope/Lorg/apache/hadoop/fs/permission/AclEntryScope;g
etType0()Lorg/apache/hadoop/fs/permission/AclEntryType;CodeLineNumberTableLocalVariableTablethis*Lorg/ap
ache/hadoop/fs/permission/AclEntry;getName()Ljava/lang/String;
getPermission,(Lorg/apache/hadoop/fs/permission/FsAction;getScope1()Lorg/apache/hadoop/fs/permission/AclEnt
ryScope>equals(Ljava/lang/Object;)ZLjava/lang/Object;other
StackMapTablehashCode()ItoStringsbLorg/apache/hadoop/fs/permission/AclEntry
Type;Ljava/lang/String;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/AclEntrySc
ope;)VparseAclSpec%(Ljava/lang/String;Z)Ljava/util/List;aclEntryaclStri$Ljava/util/Iterator;aclSpecincludePermiss
ionZ
aclEntriesLjava/util/List;
aclStringsLjava/util/Collection;LocalVariableTypeTable<Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEnt
ry;>;*Ljava/util/Collection<Ljava/lang/String;>;>;
SignatureQ(Ljava/lang/String;Z)Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;
parseAclEntry?(Ljava/lang/String;Z)Lorg/apache/hadoop/fs/permission/AclEntry;iae$Ljava/lang/IllegalArgumentExceptionE
xception;fsActionbuilder2Lorg/apache/hadoop/fs/permission/AclEntry$Builder;split(Ljava/lang/String;indexIaclTyp
eaclSpecToString$(Ljava/util/List;)Ljava/lang/String;ebufP(Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclE
ntry;>;)Ljava/lang/String;(Lorg/apache/hadoop/fs/permission/AclEntryType;Ljava/lang/String;Lorg/apache/hadoop/
fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/AclEntryScope;Lorg/apache/hadoop/fs/permission/AclE
ntry$1;)Vx0x1x2x3x4,Lorg/apache/hadoop/fs/permission/AclEntry$1;
SourceFile
AclEntry.javaRuntimeVisibleAnnotationsPublic;Lorg/apache/hadoop/classification/InterfaceAudience$Public;Evolv
ing>Lorg/apache/hadoop/classification/InterfaceStability$Evolving;`a>?@ABCDE(org/apache/hadoop/fs/permisio
n/AclEntryjava/lang/ObjectZjava/lang/StringBuilder`Edefault:\NNAjava/util/ArrayList,java/lang/StringwxT0org/ap
ache/hadoop/fs/permission/AclEntry$Builder:~0org/apache/hadoop/HadoopIllegalArgumentExceptionInvalid
<aclSpec> :
`defaultST,org/apache/hadoop/fs/permission/AclEntryTypeN"java/lang/IllegalArgumentException"Invalid type of
acl in <aclSpec> : "Invalid permission in <aclSpec> :

[*org/apache/hadoop/fs/permission/AclEntry$1java/util/Listjava/util/Collectionjava/util/Iterator(org/apache/hadoop/
fs/permission/FsAction9org/apache/hadoop/classification/InterfaceAudience$Public<org/apache/hadoop/classificati
on/InterfaceStability$EvolvinggetClass()Ljava/lang/Class;com/google/common/base/Objectsequal'(Ljava/lang/Objec
t;Ljava/lang/Object;Z(Ljava/lang/Object;)I)(V-
org/apache/hadoop/fs/permission/AclEntryScopeDEFAULTappend-
(Ljava/lang/String;)Ljava/lang/StringBuilder;toLowerCase(C)Ljava/lang/StringBuilder;SYMBOL"org/apache/hadoo
p/util/StringUtilsgetStringCollection<(Ljava/lang/String;Ljava/lang/String;)Ljava/util/Collection;iterator()Ljava/uti
l/Iterator;hasNext(Znext(Ljava/lang/Object;add'(Ljava/lang/String;)[Ljava/lang/String;(Ljava/lang/String;)VsetSco
pec(Lorg/apache/hadoop/fs/permission/AclEntryScope;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;toUpp
erCasejava/lang/EnumvalueOf5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;setTypeb(Lorg/apache/hadoo
p/fs/permission/AclEntryType;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;isEmptysetNameF(Ljava/lang/
String;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;getFsAction>(Ljava/lang/String;)Lorg/apache/hadoop/
fs/permission/FsAction;
setPermission^(Lorg/apache/hadoop/fs/permission/FsAction;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;
build,(Lorg/apache/hadoop/fs/permission/AclEntry;length
substring(II)Ljava/lang/String;2org/apache/hadoop/classification/InterfaceAudience3org/apache/hadoop/classificati
on/InterfaceStability!
>?@ABCDEFGH*I4JKLMNH/*I=JKLOPH/*IFJKLQRH/*IOJKLSTHV+*++M*,1*.*,*,*ITUWXZ[J
VKLVUV>WLX@Y@Z[HNS Y*SY*SY*SY*S
IcJ$KL\NHeYL*

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+W\*+\*W+:W\*+\*W+:W\*+\*W+I2hijl m/o6p=qFsMtTu`wJeKL]]^X\_`aH\*\*+\*,\*-\*I J4KL>?@ABCDE bcHCYM\*N-  
:#:.,W,I-5>AJH5 dL-eA\*fgChACij;kl4mno;kp4mqXrst)uv wxHQ Y!M\*"#N-\$YY%\*&6'-2(  
)W-\$YY%\*&:-2+,\*.-W :\$YY/\*&--2:0  
,1W]-\$YY%\*&-2:2:\$YY3\*&,4W-\$YY%\*&,5:m.I#/2=@HOjm  
##\$&'-(H\*N+Jpyz@A2BA+{CQeAQijI}B~2m?NdLX@/!!%- ! HAYL\*6M, ,N+-  
7W+W++8d9145"6+72859J\*"L&fgAhl9^oAhpX\_t'u`Hf  
\*+,-I(J>  
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SourceFileAclStatus.javaEnclosingMethod+org/apache/hadoop/fs/permission/AclStatus\$IInnerClassesjava/lang/Ob  
ject)org/apache/hadoop/fs/permission/AclStatus  
2`  
ab0c  
%d  
%e f  
g h  
ij&k  
l m(n o)p q\*r s+t u,v w-x y.z {  
}|NONE\*Lorg/apache/hadoop/fs/permission/FsAction;EXECUTEWRITE  
WRITE\_EXECUTE\_READ\_READ\_EXECUTE  
READ\_WRITEALLvals+[Lorg/apache/hadoop/fs/permission/FsAction;SYMBOLLjava/lang/String;\$VALUESvalu  
es-  
([Lorg/apache/hadoop/fs/permission/FsAction;CodeLineNumberTablevalueOf>(Ljava/lang/String;)Lorg/apache/ha  
dooop/fs/permission/FsAction;LocalVariableTablename<init>((Ljava/lang/String;ILjava/lang/String;)Vthiss  
Signature(Ljava/lang/String;)Vimplies-(Lorg/apache/hadoop/fs/permission/FsAction;)Zthat  
StackMapTableandV(Lorg/apache/hadoop/fs/permission/FsAction;)Lorg/apache/hadoop/fs/permission/FsAction;orn  
ot,()Lorg/apache/hadoop/fs/permission/FsAction;getFsActionfsActionarr\$len\$Ii\$  
permission0<clinit>()V<Ljava/lang/Enum<Lorg/apache/hadoop/fs/permission/FsAction;>;  
SourceFile  
FsAction.javaRuntimeVisibleAnnotationsPublicInnerClasses;Lorg/apache/hadoop/classification/InterfaceAudience\$  
Public;Stable<Lorg/apache/hadoop/classification/InterfaceStability\$Stable;300(org/apache/hadoop/fs/permission/Fs  
Action8<12/0---<=&'--x('-w-)-wx\*'r--+'r-x,'rw--  
'rwx.'45java/lang/Enum9org/apache/hadoop/classification/InterfaceAudience\$Public:org/apache/hadoop/classificati  
on/InterfaceStability\$Stableclone()Ljava/lang/Object;5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;(Ljav  
a/lang/String;I)Vordinal()Ljava/lang/Stringequals(Ljava/lang/Object;)Z2org/apache/hadoop/classification/Interfac  
eAudience3org/apache/hadoop/classification/InterfaceStability@1% @&'('@)'@\*'+@,'@-'@./01230 456"  
7 8965\*7:;2<=6H\*+\*-7-./:>'?2@ ABC6d+\*+~+7679:>'D'E@FG6B \*+~27>:>'D'HG6B \*+27B:>'D'IJ66 \*d27F:>' K96\*  
L+=>+2:.\*  
7RST"R(W:4L\$M0!NO PO\*Q2E RST6Y  
Y  
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#YSYSYSYSYSYSY SY#SS\$ 7\*

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2

<init>()VCodeLineNumberTableLocalVariableTablethisInnerClasses4Lorg/apache/hadoop/fs/permission/PermissionStatus\$1;newInstance!()Lorg/apache/hadoop/io/Writable;

SourceFilePermissionStatus.javaEnclosingMethod0org/apache/hadoop/fs/permission/PermissionStatus2org/apache/hadoop/fs/permission/PermissionStatus\$1java/lang/Object\$org/apache/hadoop/io/WritableFactory7(Lorg/apache/hadoop/fs/permission/PermissionStatus\$1;)V0 /\*

" 3 Y

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01

23456chmodOctalPatternLjava/util/regex/Pattern;umaskSymbolicPattern

umaskModeS<init>(Ljava/lang/String;)VCodeLineNumberTableLocalVariableTablethis-

Lorg/apache/hadoop/fs/permission/UmaskParser;modeStrLjava/lang/String;

Exceptions7getUMask()S

StackMapTable<clinit>()V

SourceFileUmaskParser.javaRuntimeVisibleAnnotations9PrivateInnerClasses<Lorg/apache/hadoop/classification/InterfaceAudience\$Private;;Unstable>Lorg/apache/hadoop/classification/InterfaceStability\$Unstable;

<=>?@^s\*[+]?()([0-7]{3})\s\*\$ABC)\G\s\*([ugo]\*)([+=-

]+)([rwx]\*)([,s]\*)s\*+org/apache/hadoop/fs/permission/UmaskParser0org/apache/hadoop/fs/permission/PermissionParser"java/lang/IllegalArgumentExceptionD:org/apache/hadoop/classification/InterfaceAudience\$PrivateE<org/apache/hadoop/classification/InterfaceStability\$UnstableG(Ljava/lang/String;Ljava/util/regex/Pattern;Ljava/util/regex/Pattern;)VcombineModes(IZ)IsymbolicZjava/util/regex/Patterncompile-

(Ljava/lang/String;)Ljava/util/regex/Pattern;2org/apache/hadoop/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStability

S\*+\*\*\*,-S\*\*~\*;<> -

#!"#

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29

```
( ) * + , - . /
012type.Lorg/apache/hadoop/fs/permission/AclEntryType;nameLjava/lang/String;
permission*Lorg/apache/hadoop/fs/permission/FsAction;scope/Lorg/apache/hadoop/fs/permission/AclEntryScope;<
init>()VCodeLineNumberTableLocalVariableTablethisBuilderInnerClasses2Lorg/apache/hadoop/fs/permission/Acl
Entry$Builder;setTypeb(Lorg/apache/hadoop/fs/permission/AclEntryType;)Lorg/apache/hadoop/fs/permission/AclE
ntry$Builder;setNameF(Ljava/lang/String;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;
setPermission^(Lorg/apache/hadoop/fs/permission/FsAction;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;s
etScopec(Lorg/apache/hadoop/fs/permission/AclEntryScope;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;
build,()Lorg/apache/hadoop/fs/permission/AclEntry;
```

SourceFile

AclEntry.java34

```
(org/apache/hadoop/fs/permission/AclEntry70org/apache/hadoop/fs/permission/AclEntry$Builderjava/lang/Object-
org/apache/hadoop/fs/permission/AclEntryScopeACCESS8(Lorg/apache/hadoop/fs/permission/AclEntryType;Ljava
/lang/String;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/AclEntryScope;Lorg/a
pache/hadoop/fs/permission/AclEntry$1;)V*org/apache/hadoop/fs/permission/AclEntry$1!
```

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.*
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}?+*
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?+*
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!?*+*
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```

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$_CY****&' 5
```

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2
```

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"g !h !i !j !k !l
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mn
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op
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```
!q
```

```
or
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!st
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ov
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wx
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oy
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```
wz
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```
w{}
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u !~ !!!
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```
w
```

```
w
```

```
w
```

```
!symbolicZuserModeS groupMode
```

```
othersMode
```

```
stickyModeuserTypeC groupType
```

```
othersType
```

```
stickyBitType<init>G(Ljava/lang/String;Ljava/util/regex/Pattern;Ljava/util/regex/Pattern;)VCodeLineNumberTable
LocalVariableTablethis2Lorg/apache/hadoop/fs/permission/PermissionParser;modeStrLjava/lang/String;Ljava/util/r
```

```

egex/Pattern;octalmatcherLjava/util/regex/Matcher;
StackMapTable
ExceptionsapplyNormalPattern.(Ljava/lang/String;Ljava/util/regex/Matcher;)Vcarr${Clen$li$strtypeusergroupothers
stickyBitmodeicommaSeperatedFapplyOctalPatternsbcombineModes(IZ)IexistingexeOkcombineModeSegments(CI
IZ)IcapX
SourceFilePermissionParser.javaRuntimeVisibleAnnotationsPrivateInnerClasses<Lorg/apache/hadoop/classification
/InterfaceAudience$Private;Unstable>Lorg/apache/hadoop/classification/InterfaceStability$Unstable;/#$*+,+-
+.:BCTC"java/lang/IllegalArgumentException/Mjava/lang/RuntimeException
Unexpected%&'&(&)&,Z[0org/apache/hadoop/fs/permission/PermissionParserjava/lang/Objectjava/lang/Stringjava/
util/regex/Patternjava/util/regex/Matcher:org/apache/hadoop/classification/InterfaceAudience$Private<org/apache/h
adoop/classification/InterfaceStability$Unstable()V3(Ljava/lang/CharSequence;)Ljava/util/regex/Matcher;find()Zm
atches(Ljava/lang/String;)Vend()Ilength(I)Ljava/lang/String;charAt(I)CtoCharArray()[Ccontains(Ljava/lang/CharSe
quence;)ZisEmpty substring(II)Ljava/lang/String;java/lang/ShortvalueOf%(Ljava/lang/String;)Ljava/lang/Short;
shortValue()S2org/apache/hadoop/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStabil
ity !" #$$&'&(&)&*+,--+./01^***+*+*+*+;+Y:
*+ $-+Y:

*+Y+
26
4" ')*!$%728<9J:T<>34^45^67^#8^98$::;<<=>??@ABC1>6,+
,Y+
,.;d6Y6
Y6 Y66,;66

[
46?a<g0o6u*666
Y
Y6 Y666,;6
6
}46aXPr2t[w<xF626(666

Y**** $***
*,>@*22BDE&F/M6NDQPSpTVWYZ]_aSefikl0n7o:qArDtKuNwVxYz{[_]ikotzD3pKD+ZgEF_bGHb_IH
mD+EFGH
IH6J7D~K+PrL$NtM$KwN$ HzO$
P&QH4567;;R$<2=>@>S9 =>@>SA
Z==>@>=>@TC1n***=ZZ,N-*_*=.***2*
-3:K\m34n45n67n.;XU7:4J7<3>VW1U*** | x***|~ x***|~ x***~ 23 U45UXHUY$Z[1r6~6~==4+!-(=1=~
Y~~~=26

8?HKUkp3>r45rK+rPHrXhrY$o\${! ]^_
cfb`a& de&
2W 3 4
5
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89
6:
;<

```

```

=>?@AchmodOctalPatternLjava/util/regex/Pattern;chmodNormalPattern<init>(Ljava/lang/String;)VCodeLineNum
berTableLocalVariableTablethis-Lorg/apache/hadoop/fs/permission/ChmodParser;modeStrLjava/lang/String;
ExceptionsBapplyNewPermission$(Lorg/apache/hadoop/fs/FileStatus;)Sfile!Lorg/apache/hadoop/fs/FileStatus;perm
s.Lorg/apache/hadoop/fs/permission/FsPermission;existingIexeOkZ
StackMapTableC<clinit>()V
SourceFileChmodParser.javaRuntimeVisibleAnnotationsEPrivateInnerClasses<Lorg/apache/hadoop/classification/I
nterfaceAudience$Private;GUnstable>Lorg/apache/hadoop/classification/InterfaceStability$Unstable;
HIJKLMNOPQ^s*[+]?([01]?)([0-7]{3})\s*$RST+\G\s*([ugoa]*)[+=-
]+)([rwxXt]+)([, \s]*)\s*+org/apache/hadoop/fs/permission/ChmodParser0org/apache/hadoop/fs/permission/Permissi
onParser"java/lang/IllegalArgumentException,org/apache/hadoop/fs/permission/FsPermissionU:org/apache/hadoop/
classification/InterfaceAudience$PrivateV<org/apache/hadoop/classification/InterfaceStability$UnstableG(Ljava/la
ng/String;Ljava/util/regex/Pattern;Ljava/util/regex/Pattern;)Vorg/apache/hadoop/fs/FileStatus
getPermission0()Lorg/apache/hadoop/fs/permission/FsPermission;toShort()SisDirectory()ZcombineModes(IZ)Ijava/
util/regex/Patterncompile-
(Ljava/lang/String;)Ljava/util/regex/Pattern;2org/apache/hadoop/classification/InterfaceAudience3org/apache/hadoo
p/classification/InterfaceStability!

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f Vg Yh Yi
\j Yk
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Qm

```

```

UnogetAclFromPermAndEntriesP(Lorg/apache/hadoop/fs/permission/FsPermission;Ljava/util/List;)Ljava/util/List;
CodeLineNumberTableLocalVariableTableperm.Lorg/apache/hadoop/fs/permission/FsPermission;entriesLjava/util/
List;aclhasAccessAclZ
entryIterLjava/util/Iterator;curEntry*Lorg/apache/hadoop/fs/permission/AclEntry;LocalVariableTypeTable<Ljava/u
til/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;@Ljava/util/Iterator<Lorg/apache/hadoop/fs/permission/Acl
Entry;>;
StackMapTablepqreSs
Signature(Lorg/apache/hadoop/fs/permission/FsPermission;Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclE
ntry;>;)Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;
getMinimalAcl@(Lorg/apache/hadoop/fs/permission/FsPermission;)Ljava/util/List;!(Lorg/apache/hadoop/fs/permis
sion/FsPermission;)Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;isMinimalAcl(Ljava/util/List;)Z?(

```

```

Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;)Z<init>()Vthis)Lorg/apache/hadoop/fs/permission/A
clUtil;
SourceFileAclUtil.javaRuntimeVisibleAnnotationsuLimitedPrivateInnerClassesCLorg/apache/hadoop/classification
/InterfaceAudience$LimitedPrivate;valueHDFS
MapReducewUnstable>Lorg/apache/hadoop/classification/InterfaceStability$Unstable;qxyz{|0org/apache/hadoop/fs
/permission/AclEntry$BuilderBuilder>?}~spr(org/apache/hadoop/fs/permission/AclEntry'org/apache/hadoop/fs/per
mission/AclUtiljava/lang/Object,org/apache/hadoop/fs/permission/FsPermissionjava/util/Listjava/util/Iterator,org/ap
ache/hadoop/fs/permission/AclEntryTypeAorg/apache/hadoop/classification/InterfaceAudience$LimitedPrivate<org
/apache/hadoop/classification/InterfaceStability$Unstablesize()Icom/google/common/collect/ListsnewArrayListWit
hCapacity(I)Ljava/util/ArrayList;-
org/apache/hadoop/fs/permission/AclEntryScopeACCESS/Lorg/apache/hadoop/fs/permission/AclEntryScope;setSc
opeoc(Lorg/apache/hadoop/fs/permission/AclEntryScope;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;USE
R.Lorg/apache/hadoop/fs/permission/AclEntryType;setTypeb(Lorg/apache/hadoop/fs/permission/AclEntryType;)Lo
rg/apache/hadoop/fs/permission/AclEntry$Builder;
getUserAction,()Lorg/apache/hadoop/fs/permission/FsAction;
setPermission^(Lorg/apache/hadoop/fs/permission/FsAction;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;
build,()Lorg/apache/hadoop/fs/permission/AclEntry;add(Ljava/lang/Object;)Ziterator()Ljava/util/Iterator;hasNext(Z
next(Ljava/lang/Object;getScope1()Lorg/apache/hadoop/fs/permission/AclEntryScope;DEFAULTMASKGROUPg
etGroupActionOTHERgetOtherActionnewArrayList*([Ljava/lang/Object;)Ljava/util/ArrayList;2org/apache/hadoop
/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStability1 +`M,Y`*
W>+
::+:>,W,Y *
W,Y*
W2',W,W,J,/0627:8=9G:S;^<a>c?oDKRSTUY >!"#$$%$2&':()=*,+,#-%-:(./\=01123#
011231401123145067 89hYY*
SYY*
SYY*
Sd h!"6: ;<W*~ #$,#-/@6=>?3*
@ABCDHI[sJsKNGEtF& LvM& T
2[
6
78 9 : ;<=>?@A@BC DE
FGHownerLjava/lang/String;group stickyBitZentriesLjava/util/List;
Signature<Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;<init>()VCodeLineNumberTableLocalVar
iableTablethisBuilderInnerClasses3Lorg/apache/hadoop/fs/permission/AclStatus$Builder;G(Ljava/lang/String;)Lorg
/apache/hadoop/fs/permission/AclStatus$Builder;addEntry_(Lorg/apache/hadoop/fs/permission/AclEntry;)Lorg/ap
ache/hadoop/fs/permission/AclStatus$Builder;e*Lorg/apache/hadoop/fs/permission/AclEntry;
addEntriesI(Ljava/lang/Iterable;)Lorg/apache/hadoop/fs/permission/AclStatus$Builder;i$Ljava/util/Iterator;Ljava/l
ang/Iterable;LocalVariableTypeTable@Ljava/lang/Iterable<Lorg/apache/hadoop/fs/permission/AclEntry;>;
StackMapTableIu(Ljava/lang/Iterable<Lorg/apache/hadoop/fs/permission/AclEntry;>;)Lorg/apache/hadoop/fs/permi
ssion/AclStatus$Builder;6(Z)Lorg/apache/hadoop/fs/permission/AclStatus$Builder;build-
()Lorg/apache/hadoop/fs/permission/AclStatus;
SourceFileAclStatus.javaJKLMNORPQRSTUUV(org/apache/hadoop/fs/permission/AclEntry)org/apache/hadoop/fs/pe
rmission/AclStatusYIorg/apache/hadoop/fs/permission/AclStatus$Builderjava/lang/Objectjava/util/Iteratorcom/go
ogle/common/collect/ListsnewArrayList(Ljava/util/ArrayList;java/util/Listadd(Ljava/lang/Object;)Zjava/lang/Iterabl
eiterator()Ljava/util/Iterator;hasNext(Znext()Ljava/lang/Object;Zi(Ljava/lang/String;Ljava/lang/String;ZLjava/lang/
Iterable;Lorg/apache/hadoop/fs/permission/AclStatus$1;)V+org/apache/hadoop/fs/permission/AclStatus$1!:*
os!"?*.+*

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ConstantValue<init>()VCodeLineNumberTableLocalVariableTablethis8Lorg/apache/hadoop/fs/permission/Access  
ControlException;(Ljava/lang/String;)VsLjava/lang/String;(Ljava/lang/Throwable;)VcauseLjava/lang/Throwable;  
SourceFileAccessControlException.java

DeprecatedRuntimeVisibleAnnotationsLjava/lang/Deprecated;\*PublicInnerClasses;Lorg/apache/hadoop/classificati  
on/InterfaceAudience\$Public;Stable<Lorg/apache/hadoop/classification/InterfaceStability\$Stable;Permission  
denied.6org/apache/hadoop/fs/permission/AccessControlExceptionjava/io/IOException-  
9org/apache/hadoop/classification/InterfaceAudience\$Public.:org/apache/hadoop/classification/InterfaceStability\$St  
able2org/apache/hadoop/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStability!

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@A #)& !+ "&

2\*

!"

##%<init>U(Ljava/lang/String;Ljava/lang/String;Lorg/apache/hadoop/fs/permission/FsPermission;)VCodeLineNum  
berTableLocalVariableTablethisInnerClasses4Lorg/apache/hadoop/fs/permission/PermissionStatus\$2;x0Ljava/lang/  
String;x1x2.Lorg/apache/hadoop/fs/permission/FsPermission;  
applyUMaskb(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/PermissionStat  
us;umask

readFields(Ljava/io/DataInput;)VinLjava/io/DataInput;

Exceptions&

SourceFilePermissionStatus.javaEnclosingMethod('java/lang/UnsupportedOperationException)2org/apache/hadoop  
/fs/permission/PermissionStatus\$20org/apache/hadoop/fs/permission/PermissionStatusjava/io/IOExceptioncreateIm  
mutable(Ljava/lang/String;Ljava/lang/String;Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/  
fs/permission/PermissionStatus;()VOP\*+,- -

\*<Y 0

<Y 4

2\$

!<init>(S)VCodeLineNumberTableLocalVariableTablethisImmutableFsPermissionInnerClassesDLorg/apache/hado  
op/fs/permission/FsPermission\$ImmutableFsPermission;

permissionS

applyUMask^(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/FsPermission;u  
mask.Lorg/apache/hadoop/fs/permission/FsPermission;

readFields(Ljava/io/DataInput;)VinLjava/io/DataInput;  
Exceptions"  
SourceFileFsPermission.java'java/lang/UnsupportedOperationException#Borg/apache/hadoop/fs/permission/FsPerm  
ission\$ImmutableFsPermission,org/apache/hadoop/fs/permission/FsPermissionjava/io/IOException()V >\*<br>  
xy  
<Y |  
<Y

This product includes software developed by The Apache Software Foundation (<http://www.apache.org/>).

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Also, please refer to each LICENSE.<component>.txt file, which is located in the 'license' directory of the distribution file, for the license terms of the components that this product depends on.

-----  
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\* HOMEPAGE:

\* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/>

\* <http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jboss/cache/experimental/jsr166/>

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\* <https://github.com/joewalnes/webbit>

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\* <http://www.slf4j.org/>

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- \* HOMEPAGE:
  - \* <http://archive.apache.org/dist/harmony/>

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- \* HOMEPAGE:
  - \* <https://github.com/akka/akka/blob/wip-2.2.3-for-scala-2.11/akka-actor/src/main/java/akka/dispatch/AbstractNodeQueue.java>

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- \* HOMEPAGE:
  - \* <https://code.google.com/p/jzip2/>

This product contains a modified portion of 'libdivsufsort', a C API library to construct the suffix array and the Burrows-Wheeler transformed string for any input string of a constant-size alphabet written by Yuta Mori. It can be obtained at:

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- \* HOMEPAGE:
  - \* <https://code.google.com/p/libdivsufsort/>

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java Concurrency Tools for the JVM, which can be obtained at:

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  - \* <https://github.com/JCTools/JCTools>

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- \* HOMEPAGE:
  - \* <http://www.jcraft.com/jzlib/>

This product optionally depends on 'Compress-LZF', a Java library for encoding and decoding data in LZF format, written by Tatu Saloranta. It can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.compress-lzf.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://github.com/ning/compress>

This product optionally depends on 'lz4', a LZ4 Java compression and decompression library written by Adrien Grand. It can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.lz4.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://github.com/jpountz/lz4-java>

This product optionally depends on 'lzma-java', a LZMA Java compression and decompression library, which can be obtained at:

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- \* HOMEPAGE:
  - \* <https://github.com/jponge/lzma-java>

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- \* HOMEPAGE:
  - \* <https://code.google.com/p/jfastlz/>

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- \* HOMEPAGE:
  - \* <http://code.google.com/p/protobuf/>

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- \* HOMEPAGE:

\* <http://www.bouncycastle.org/>

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\* HOMEPAGE:

\* <http://code.google.com/p/snappy/>

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\* HOMEPAGE:

\* <http://www.jboss.org/jbossmarshalling>

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\* HOMEPAGE:

\* <http://code.google.com/p/caliper/>

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\* HOMEPAGE:

\* <http://commons.apache.org/logging/>

This product optionally depends on 'Apache Log4J', a logging framework, which can be obtained at:

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\* [license/LICENSE.log4j.txt](#) (Apache License 2.0)

\* HOMEPAGE:

\* <http://logging.apache.org/log4j/>

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org.eclipse.jetty.toolchain:jetty-schemas

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```
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# 1.118 hadoop-common-2.8.3 2.8.3

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 */
package org.apache.hadoop.fs.permission;

import java.util.regex.Pattern;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.fs.FileStatus;

/**
 * Parse a permission mode passed in from a chmod command and apply that
 * mode against an existing file.
 */
@InterfaceAudience.Private
@InterfaceStability.Unstable
public class ChmodParser extends PermissionParser {
    private static Pattern chmodOctalPattern =
        Pattern.compile("^\\s*[+]?([01]?)([0-7]{3})\\s*$");
    private static Pattern chmodNormalPattern =
        Pattern.compile("\\G\\s*([ugoa]*)([+|=|-])([rwxXt]+)([,\\s]*)\\s*");

    public ChmodParser(String modeStr) throws IllegalArgumentException {
        super(modeStr, chmodNormalPattern, chmodOctalPattern);
    }
}
```

```

/**
 * Apply permission against specified file and determine what the
 * new mode would be
 * @param file File against which to apply mode
 * @return File's new mode if applied.
 */
public short applyNewPermission(FileStatus file) {
    FsPermission perms = file.getPermission();
    int existing = perms.toShort();
    boolean exeOk = file.isDirectory() || (existing & 0111) != 0;

    return (short)combineModes(existing, exeOk);
}
}
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package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * File system actions, e.g. read, write, etc.
 */
@InterfaceAudience.Public
@InterfaceStability.Stable
public enum FsAction {
    // POSIX style
    NONE("---"),
    EXECUTE("--x"),
    WRITE("-w-"),
    WRITE_EXECUTE("-wx"),

```

```

READ("r-"),
READ_EXECUTE("r-x"),
READ_WRITE("rw-"),
ALL("rwx");

/** Retain reference to value array. */
private final static FsAction[] vals = values();

/** Symbolic representation */
public final String SYMBOL;

private FsAction(String s) {
    SYMBOL = s;
}

/**
 * Return true if this action implies that action.
 * @param that
 */
public boolean implies(FsAction that) {
    if (that != null) {
        return (ordinal() & that.ordinal()) == that.ordinal();
    }
    return false;
}

/** AND operation. */
public FsAction and(FsAction that) {
    return vals[ordinal() & that.ordinal()];
}

/** OR operation. */
public FsAction or(FsAction that) {
    return vals[ordinal() | that.ordinal()];
}

/** NOT operation. */
public FsAction not() {
    return vals[7 - ordinal()];
}

/**
 * Get the FsAction enum for String representation of permissions
 *
 * @param permission
 *      3-character string representation of permission. ex: rwx
 * @return Returns FsAction enum if the corresponding FsAction exists for permission.
 *      Otherwise returns null
 */
public static FsAction getFsAction(String permission) {

```

```

    for (FsAction fsAction : vals) {
        if (fsAction.SYMBOL.equals(permission)) {
            return fsAction;
        }
    }
    return null;
}
}
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 */
package org.apache.hadoop.fs.permission;

import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.CommonConfigurationKeys;
import org.apache.hadoop.io.Writable;
import org.apache.hadoop.io.WritableFactories;
import org.apache.hadoop.io.WritableFactory;

/**
 * A class for file/directory permissions.
 */
@InterfaceAudience.Public
@InterfaceStability.Stable
public class FsPermission implements Writable {
    private static final Log LOG = LogFactory.getLog(FsPermission.class);

```

```

static final WritableFactory FACTORY = new WritableFactory() {
    @Override
    public Writable newInstance() { return new FsPermission(); }
};

static {
    // register a ctor
    WritableFactories.setFactory(FsPermission.class, FACTORY);
    WritableFactories.setFactory(ImmutableFsPermission.class, FACTORY);
}

/** Maximum acceptable length of a permission string to parse */
public static final int MAX_PERMISSION_LENGTH = 10;

/** Create an immutable {@link FsPermission} object. */
public static FsPermission createImmutable(short permission) {
    return new ImmutableFsPermission(permission);
}

//POSIX permission style
private FsAction useraction = null;
private FsAction groupaction = null;
private FsAction otheraction = null;
private boolean stickyBit = false;

private FsPermission() {}

/**
 * Construct by the given {@link FsAction}.
 * @param u user action
 * @param g group action
 * @param o other action
 */
public FsPermission(FsAction u, FsAction g, FsAction o) {
    this(u, g, o, false);
}

public FsPermission(FsAction u, FsAction g, FsAction o, boolean sb) {
    set(u, g, o, sb);
}

/**
 * Construct by the given mode.
 * @param mode
 * @see #toShort()
 */
public FsPermission(short mode) { fromShort(mode); }

/**

```

```

* Copy constructor
*
* @param other other permission
*/
public FsPermission(FsPermission other) {
    this.useraction = other.useraction;
    this.groupaction = other.groupaction;
    this.otheraction = other.otheraction;
    this.stickyBit = other.stickyBit;
}

/**
* Construct by given mode, either in octal or symbolic format.
* @param mode mode as a string, either in octal or symbolic format
* @throws IllegalArgumentException if <code>mode</code> is invalid
*/
public FsPermission(String mode) {
    this(new UmaskParser(mode).getUMask());
}

/** Return user { @link FsAction}. */
public FsAction getUserAction() {return useraction;}

/** Return group { @link FsAction}. */
public FsAction getGroupAction() {return groupaction;}

/** Return other { @link FsAction}. */
public FsAction getOtherAction() {return otheraction;}

private void set(FsAction u, FsAction g, FsAction o, boolean sb) {
    useraction = u;
    groupaction = g;
    otheraction = o;
    stickyBit = sb;
}

public void fromShort(short n) {
    FsAction[] v = FSACTION_VALUES;
    set(v[(n >>> 6) & 7], v[(n >>> 3) & 7], v[n & 7], (((n >>> 9) & 1) == 1));
}

@Override
public void write(DataOutput out) throws IOException {
    out.writeShort(toShort());
}

@Override
public void readFields(DataInput in) throws IOException {

```

```

    fromShort(in.readShort());
}

/**
 * Create and initialize a {@link FsPermission} from {@link DataInput}.
 */
public static FsPermission read(DataInput in) throws IOException {
    FsPermission p = new FsPermission();
    p.readFields(in);
    return p;
}

/**
 * Encode the object to a short.
 */
public short toShort() {
    int s = (stickyBit ? 1 << 9 : 0) |
        (useraction.ordinal() << 6) |
        (groupaction.ordinal() << 3) |
        otheraction.ordinal();

    return (short)s;
}

/**
 * Encodes the object to a short. Unlike {@link #toShort()}, this method may
 * return values outside the fixed range 00000 - 01777 if extended features
 * are encoded into this permission, such as the ACL bit.
 *
 * @return short extended short representation of this permission
 */
public short toExtendedShort() {
    return toShort();
}

@Override
public boolean equals(Object obj) {
    if (obj instanceof FsPermission) {
        FsPermission that = (FsPermission)obj;
        return this.useraction == that.useraction
            && this.groupaction == that.groupaction
            && this.otheraction == that.otheraction
            && this.stickyBit == that.stickyBit;
    }
    return false;
}

@Override

```



```

public int hashCode() {return toShort();}

@Override
public String toString() {
    String str = useraction.SYMBOL + groupaction.SYMBOL + otheraction.SYMBOL;
    if(stickyBit) {
        StringBuilder str2 = new StringBuilder(str);
        str2.replace(str2.length() - 1, str2.length(),
            otheraction.implies(FsAction.EXECUTE) ? "t" : "T");
        str = str2.toString();
    }

    return str;
}

/**
 * Apply a umask to this permission and return a new one.
 *
 * The umask is used by create, mkdir, and other Hadoop filesystem operations.
 * The mode argument for these operations is modified by removing the bits
 * which are set in the umask. Thus, the umask limits the permissions which
 * newly created files and directories get.
 *
 * @param umask      The umask to use
 *
 * @return          The effective permission
 */
public FsPermission applyUMask(FsPermission umask) {
    return new FsPermission(useraction.and(umask.useraction.not()),
        groupaction.and(umask.groupaction.not()),
        otheraction.and(umask.otheraction.not()));
}

/** umask property label deprecated key and code in getUMask method
 * to accommodate it may be removed in version .23 */
public static final String DEPRECATED_UMASK_LABEL = "dfs.umask";
public static final String UMASK_LABEL =
    CommonConfigurationKeys.FS_PERMISSIONS_UMASK_KEY;
public static final int DEFAULT_UMASK =
    CommonConfigurationKeys.FS_PERMISSIONS_UMASK_DEFAULT;

private static final FsAction[] FSACTION_VALUES = FsAction.values();

/**
 * Get the user file creation mask (umask)
 *
 * { @code UMASK_LABEL } config param has umask value that is either symbolic
 * or octal.

```

```

*
* Symbolic umask is applied relative to file mode creation mask;
* the permission op characters '+' clears the corresponding bit in the mask,
* '-' sets bits in the mask.
*
* Octal umask, the specified bits are set in the file mode creation mask.
*
* {@code DEPRECATED_UMASK_LABEL} config param has umask value set to decimal.
*/
public static FsPermission getUMask(Configuration conf) {
    int umask = DEFAULT_UMASK;

    // To ensure backward compatibility first use the deprecated key.
    // If the deprecated key is not present then check for the new key
    if(conf != null) {
        String confUmask = conf.get(UMASK_LABEL);
        int oldUmask = conf.getInt(DEPRECATED_UMASK_LABEL, Integer.MIN_VALUE);
        try {
            if(confUmask != null) {
                umask = new UmaskParser(confUmask).getUMask();
            }
        } catch(IllegalArgumentException iae) {
            // Provide more explanation for user-facing message
            String type = iae instanceof NumberFormatException ? "decimal"
                : "octal or symbolic";
            String error = "Unable to parse configuration " + UMASK_LABEL
                + " with value " + confUmask + " as " + type + " umask.";
            LOG.warn(error);

            // If oldUmask is not set, then throw the exception
            if (oldUmask == Integer.MIN_VALUE) {
                throw new IllegalArgumentException(error);
            }
        }

        if(oldUmask != Integer.MIN_VALUE) { // Property was set with old key
            if (umask != oldUmask) {
                LOG.warn(DEPRECATED_UMASK_LABEL
                    + " configuration key is deprecated. " + "Convert to "
                    + UMASK_LABEL + ", using octal or symbolic umask "
                    + "specifications.");
                // Old and new umask values do not match - Use old umask
                umask = oldUmask;
            }
        }
    }

    return new FsPermission((short)umask);
}

```

```

}

public boolean getStickyBit() {
    return stickyBit;
}

/**
 * Returns true if there is also an ACL (access control list).
 *
 * @return boolean true if there is also an ACL (access control list).
 */
public boolean getAclBit() {
    // File system subclasses that support the ACL bit would override this.
    return false;
}

/**
 * Returns true if the file is encrypted or directory is in an encryption zone
 */
public boolean getEncryptedBit() {
    return false;
}

/** Set the user file creation mask (umask) */
public static void setUMask(Configuration conf, FsPermission umask) {
    conf.set(UMASK_LABEL, String.format("%1$03o", umask.toShort()));
    conf.setInt(DEPRECATED_UMASK_LABEL, umask.toShort());
}

/**
 * Get the default permission for directory and symlink.
 * In previous versions, this default permission was also used to
 * create files, so files created end up with ugo+x permission.
 * See HADOOP-9155 for detail.
 * Two new methods are added to solve this, please use
 * {@link FsPermission#getDirDefault()} for directory, and use
 * {@link FsPermission#getFileDefault()} for file.
 * This method is kept for compatibility.
 */
public static FsPermission getDefault() {
    return new FsPermission((short)00777);
}

/**
 * Get the default permission for directory.
 */
public static FsPermission getDirDefault() {
    return new FsPermission((short)00777);
}

```

```

}

/**
 * Get the default permission for file.
 */
public static FsPermission getFileDefault() {
    return new FsPermission((short)00666);
}

/**
 * Get the default permission for cache pools.
 */
public static FsPermission getCachePoolDefault() {
    return new FsPermission((short)00755);
}

/**
 * Create a FsPermission from a Unix symbolic permission string
 * @param unixSymbolicPermission e.g. "-rw-rw-rw-"
 */
public static FsPermission valueOf(String unixSymbolicPermission) {
    if (unixSymbolicPermission == null) {
        return null;
    }
    else if (unixSymbolicPermission.length() != MAX_PERMISSION_LENGTH) {
        throw new IllegalArgumentException(String.format(
            "length != %d(unixSymbolicPermission=%s)", MAX_PERMISSION_LENGTH,
            unixSymbolicPermission));
    }

    int n = 0;
    for(int i = 1; i < unixSymbolicPermission.length(); i++) {
        n = n << 1;
        char c = unixSymbolicPermission.charAt(i);
        n += (c == '-' || c == 'T' || c == 'S') ? 0: 1;
    }

    // Add sticky bit value if set
    if(unixSymbolicPermission.charAt(9) == 't' ||
        unixSymbolicPermission.charAt(9) == 'T')
        n += 01000;

    return new FsPermission((short)n);
}

private static class ImmutableFsPermission extends FsPermission {
    public ImmutableFsPermission(short permission) {
        super(permission);
    }
}

```

```

    }

    @Override
    public void readFields(DataInput in) throws IOException {
        throw new UnsupportedOperationException();
    }
}
}
}
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 */
package org.apache.hadoop.fs.permission;

import java.util.Collections;
import java.util.List;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.fs.permission.AclEntry;
import org.apache.hadoop.fs.permission.AclEntryScope;

/**
 * Groups a list of ACL entries into separate lists for access entries vs.
 * default entries.
 */
@InterfaceAudience.LimitedPrivate({"HDFS", "MapReduce"})
@InterfaceStability.Unstable
public final class ScopedAclEntries {
    private static final int PIVOT_NOT_FOUND = -1;

    private final List<AclEntry> accessEntries;
    private final List<AclEntry> defaultEntries;

}

```

```

* Creates a new ScopedAclEntries from the given list. It is assumed that the
* list is already sorted such that all access entries precede all default
* entries.
*
* @param aclEntries List<AclEntry> to separate
*/
public ScopedAclEntries(List<AclEntry> aclEntries) {
    int pivot = calculatePivotOnDefaultEntries(aclEntries);
    if (pivot != PIVOT_NOT_FOUND) {
        accessEntries = pivot != 0 ? aclEntries.subList(0, pivot) :
            Collections.<AclEntry>emptyList();
        defaultEntries = aclEntries.subList(pivot, aclEntries.size());
    } else {
        accessEntries = aclEntries;
        defaultEntries = Collections.emptyList();
    }
}

/**
* Returns access entries.
*
* @return List<AclEntry> containing just access entries, or an empty list if
* there are no access entries
*/
public List<AclEntry> getAccessEntries() {
    return accessEntries;
}

/**
* Returns default entries.
*
* @return List<AclEntry> containing just default entries, or an empty list if
* there are no default entries
*/
public List<AclEntry> getDefaultEntries() {
    return defaultEntries;
}

/**
* Returns the pivot point in the list between the access entries and the
* default entries. This is the index of the first element in the list that is
* a default entry.
*
* @param aclBuilder ArrayList<AclEntry> containing entries to build
* @return int pivot point, or -1 if list contains no default entries
*/
private static int calculatePivotOnDefaultEntries(List<AclEntry> aclBuilder) {
    for (int i = 0; i < aclBuilder.size(); ++i) {

```

```

    if (aclBuilder.get(i).getScope() == AclEntryScope.DEFAULT) {
        return i;
    }
}
return PIVOT_NOT_FOUND;
}
}
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 */
package org.apache.hadoop.fs.permission;

import java.io.IOException;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * An exception class for access control related issues.
 * @deprecated Use { @link org.apache.hadoop.security.AccessControlException }
 * instead.
 */
@Deprecated
@InterfaceAudience.Public
@InterfaceStability.Stable
public class AccessControlException extends IOException {
    //Required by { @link java.io.Serializable }.
    private static final long serialVersionUID = 1L;

    /**
     * Default constructor is needed for unwrapping from
     * { @link org.apache.hadoop.ipc.RemoteException }.
     */
    public AccessControlException() {

```

```

    super("Permission denied.");
}

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

/**
 * Constructs a new exception with the specified cause and a detail
 * message of <tt>(cause==null ? null : cause.toString())</tt> (which
 * typically contains the class and detail message of <tt>cause</tt>).
 * @param cause the cause (which is saved for later retrieval by the
 *     {@link #getCause()} method). (A <tt>null</tt> value is
 *     permitted, and indicates that the cause is nonexistent or
 *     unknown.)
 */
public AccessControlException(Throwable cause) {
    super(cause);
}
}
}

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 */
package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.io.*;

```



```

import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;

/**
 * Store permission related information.
 */
@interfaceAudience.LimitedPrivate({"HDFS", "MapReduce"})
@interfaceStability.Unstable
public class PermissionStatus implements Writable {
    static final WritableFactory FACTORY = new WritableFactory() {
        @Override
        public Writable newInstance() { return new PermissionStatus(); }
    };
    static {
        // register a ctor
        WritableFactories.setFactory(PermissionStatus.class, FACTORY);
    }

    /** Create an immutable {@link PermissionStatus} object. */
    public static PermissionStatus createImmutable(
        String user, String group, FsPermission permission) {
        return new PermissionStatus(user, group, permission) {
            @Override
            public PermissionStatus applyUMask(FsPermission umask) {
                throw new UnsupportedOperationException();
            }
            @Override
            public void readFields(DataInput in) throws IOException {
                throw new UnsupportedOperationException();
            }
        };
    }

    private String username;
    private String groupname;
    private FsPermission permission;

    private PermissionStatus() {}

    /** Constructor */
    public PermissionStatus(String user, String group, FsPermission permission) {
        username = user;
        groupname = group;
        this.permission = permission;
    }

    /** Return user name */
    public String getUserName() {return username;}

```

```

/** Return group name */
public String getGroupName() {return groupname;}

/** Return permission */
public FsPermission getPermission() {return permission;}

/**
 * Apply umask.
 * @see FsPermission#applyUMask(FsPermission)
 */
public PermissionStatus applyUMask(FsPermission umask) {
    permission = permission.applyUMask(umask);
    return this;
}

@Override
public void readFields(DataInput in) throws IOException {
    username = Text.readString(in, Text.DEFAULT_MAX_LEN);
    groupname = Text.readString(in, Text.DEFAULT_MAX_LEN);
    permission = FsPermission.read(in);
}

@Override
public void write(DataOutput out) throws IOException {
    write(out, username, groupname, permission);
}

/**
 * Create and initialize a {@link PermissionStatus} from {@link DataInput}.
 */
public static PermissionStatus read(DataInput in) throws IOException {
    PermissionStatus p = new PermissionStatus();
    p.readFields(in);
    return p;
}

/**
 * Serialize a {@link PermissionStatus} from its base components.
 */
public static void write(DataOutput out,
                        String username,
                        String groupname,
                        FsPermission permission) throws IOException {
    Text.writeString(out, username, Text.DEFAULT_MAX_LEN);
    Text.writeString(out, groupname, Text.DEFAULT_MAX_LEN);
    permission.write(out);
}

```

```

@Override
public String toString() {
    return username + ":" + groupname + ":" + permission;
}
}
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 */
package org.apache.hadoop.fs.permission;

import java.util.Iterator;
import java.util.List;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

import com.google.common.collect.Lists;

/**
 * AclUtil contains utility methods for manipulating ACLs.
 */
@InterfaceAudience.LimitedPrivate({"HDFS", "MapReduce"})
@InterfaceStability.Unstable
public final class AclUtil {

    /**
     * Given permissions and extended ACL entries, returns the full logical ACL.
     *
     * @param perm FsPermission containing permissions
     * @param entries List<AclEntry> containing extended ACL entries
     * @return List<AclEntry> containing full logical ACL
     */
    public static List<AclEntry> getAclFromPermAndEntries(FsPermission perm,

```

```

    List<AclEntry> entries) {
List<AclEntry> acl = Lists.newArrayListWithCapacity(entries.size() + 3);

// Owner entry implied by owner permission bits.
acl.add(new AclEntry.Builder()
    .setScope(AclEntryScope.ACCESS)
    .setType(AclEntryType.USER)
    .setPermission(perm.getUserAction())
    .build());

// All extended access ACL entries.
boolean hasAccessAcl = false;
Iterator<AclEntry> entryIter = entries.iterator();
AclEntry curEntry = null;
while (entryIter.hasNext()) {
    curEntry = entryIter.next();
    if (curEntry.getScope() == AclEntryScope.DEFAULT) {
        break;
    }
    hasAccessAcl = true;
    acl.add(curEntry);
}

// Mask entry implied by group permission bits, or group entry if there is
// no access ACL (only default ACL).
acl.add(new AclEntry.Builder()
    .setScope(AclEntryScope.ACCESS)
    .setType(hasAccessAcl ? AclEntryType.MASK : AclEntryType.GROUP)
    .setPermission(perm.getGroupAction())
    .build());

// Other entry implied by other bits.
acl.add(new AclEntry.Builder()
    .setScope(AclEntryScope.ACCESS)
    .setType(AclEntryType.OTHER)
    .setPermission(perm.getOtherAction())
    .build());

// Default ACL entries.
if (curEntry != null && curEntry.getScope() == AclEntryScope.DEFAULT) {
    acl.add(curEntry);
    while (entryIter.hasNext()) {
        acl.add(entryIter.next());
    }
}

return acl;
}

```

```

/**
 * Translates the given permission bits to the equivalent minimal ACL.
 *
 * @param perm FsPermission to translate
 * @return List<AclEntry> containing exactly 3 entries representing the owner,
 *         group and other permissions
 */
public static List<AclEntry> getMinimalAcl(FsPermission perm) {
    return Lists.newArrayList(
        new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.USER)
            .setPermission(perm.getUserAction())
            .build(),
        new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.GROUP)
            .setPermission(perm.getGroupAction())
            .build(),
        new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.OTHER)
            .setPermission(perm.getOtherAction())
            .build());
}

/**
 * Checks if the given entries represent a minimal ACL (contains exactly 3
 * entries).
 *
 * @param entries List<AclEntry> entries to check
 * @return boolean true if the entries represent a minimal ACL
 */
public static boolean isMinimalAcl(List<AclEntry> entries) {
    return entries.size() == 3;
}

/**
 * There is no reason to instantiate this class.
 */
private AclUtil() {
}
}

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```

```

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*/

```

```
package org.apache.hadoop.fs.permission;
```

```
import java.util.regex.Pattern;
```

```
import org.apache.hadoop.classification.InterfaceAudience;
```

```
import org.apache.hadoop.classification.InterfaceStability;
```

```
/**
```

```

* Parse umask value provided as a string, either in octal or symbolic
* format and return it as a short value. Umask values are slightly
* different from standard modes as they cannot specify sticky bit
* or X.
*
*/

```

```
@InterfaceAudience.Private
```

```
@InterfaceStability.Unstable
```

```
class UmaskParser extends PermissionParser {
```

```
    private static Pattern chmodOctalPattern =
```

```
        Pattern.compile("^\\s*[+]?(0*)([0-7]{3})\\s*$"); // no leading 1 for sticky bit
```

```
    private static Pattern umaskSymbolicPattern = /* not allow X or t */
```

```
        Pattern.compile("\\G\\s*([ugoa]*)([+=-]+)([rwx]*)([,\\s]*)\\s*");
```

```
    final short umaskMode;
```

```
    public UmaskParser(String modeStr) throws IllegalArgumentException {
```

```
        super(modeStr, umaskSymbolicPattern, chmodOctalPattern);
```

```
        umaskMode = (short)combineModes(0, false);
```

```
    }
```

```
/**
```

```

* To be used for file/directory creation only. Symbolic umask is applied
* relative to file mode creation mask; the permission op characters '+'
* results in clearing the corresponding bit in the mask, '-' results in bits
* for indicated permission to be set in the mask.
*
*/

```

```
*/
```

```

* For octal umask, the specified bits are set in the file mode creation mask.
*
* @return umask
*/
public short getUMask() {
    if (symbolic) {
        // Return the complement of octal equivalent of umask that was computed
        return (short) (~umaskMode & 0777);
    }
    return umaskMode;
}
}
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*/
package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
* Specifies the scope or intended usage of an ACL entry.
*/
@InterfaceAudience.Public
@InterfaceStability.Stable
public enum AclEntryScope {
    /**
    * An ACL entry that is inspected during permission checks to enforce
    * permissions.
    */
    ACCESS,

    /**
    * An ACL entry to be applied to a directory's children that do not otherwise

```

```

* have their own ACL defined. Unlike an access ACL entry, a default ACL
* entry is not inspected as part of permission enforcement on the directory
* that owns it.
*/
DEFAULT;
}
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*/
package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
* Specifies the type of an ACL entry.
*/
@InterfaceAudience.Public
@InterfaceStability.Stable
public enum AclEntryType {
/**
* An ACL entry applied to a specific user. These ACL entries can be unnamed,
* which applies to the file owner, or named, which applies to the specific
* named user.
*/
    USER,

/**
* An ACL entry applied to a specific group. These ACL entries can be
* unnamed, which applies to the file's group, or named, which applies to the
* specific named group.
*/
    GROUP,

```



```

/**
 * An ACL mask entry. Mask entries are unnamed. During permission checks,
 * the mask entry interacts with all ACL entries that are members of the group
 * class. This consists of all named user entries, the unnamed group entry,
 * and all named group entries. For each such entry, any permissions that are
 * absent from the mask entry are removed from the effective permissions used
 * during the permission check.
 */
MASK,

/**
 * An ACL entry that applies to all other users that were not covered by one
 * of the more specific ACL entry types.
 */
OTHER;

@Override
@InterfaceStability.Unstable
public String toString() {
    // This currently just delegates to the stable string representation, but it
    // is permissible for the output of this method to change across versions.
    return toStringStable();
}

/**
 * Returns a string representation guaranteed to be stable across versions to
 * satisfy backward compatibility requirements, such as for shell command
 * output or serialization.
 *
 * @return stable, backward compatible string representation
 */
public String toStringStable() {
    // The base implementation uses the enum value names, which are public API
    // and therefore stable.
    return super.toString();
}
}
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```

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ion\$1;newInstance()Lorg/apache/hadoop/io/Writable;

SourceFileFsPermission.javaEnclosingMethod,org/apache/hadoop/fs/permission/FsPermission.org/apache/hadoop/f  
s/permission/FsPermission\$1java/lang/Object\$org/apache/hadoop/io/WritableFactory3(Lorg/apache/hadoop/fs/per

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ission/FsPermission$1;)V0 /*
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456type.Lorg/apache/hadoop/fs/permission/AclEntryType;nameLjava/lang/String;
permission*Lorg/apache/hadoop/fs/permission/FsAction;scope/Lorg/apache/hadoop/fs/permission/AclEntryScope;<
init>()VCodeLineNumberTableLocalVariableTablethisBuilderInnerClasses2Lorg/apache/hadoop/fs/permission/Acl
Entry$Builder;setTypeb(Lorg/apache/hadoop/fs/permission/AclEntryType;)Lorg/apache/hadoop/fs/permission/AclE
ntry$Builder;setNameF(Ljava/lang/String;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;
StackMapTable
setPermission^(Lorg/apache/hadoop/fs/permission/FsAction;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;s
etScopec(Lorg/apache/hadoop/fs/permission/AclEntryScope;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;
build,()Lorg/apache/hadoop/fs/permission/AclEntry;
SourceFile
AclEntry.java78
9:;(org/apache/hadoop/fs/permission/AclEntry>0org/apache/hadoop/fs/permission/AclEntry$Builderjava/lang/Objec
t-
org/apache/hadoop/fs/permission/AclEntryScopeACCESSjava/lang/StringisEmpty()Z?(Lorg/apache/hadoop/fs/perm
ission/AclEntryType;Ljava/lang/String;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permis
sion/AclEntryScope;Lorg/apache/hadoop/fs/permission/AclEntry$1;)V*org/apache/hadoop/fs/permission/AclEntry$
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Qm
UnogetAclFromPermAndEntriesP(Lorg/apache/hadoop/fs/permission/FsPermission;Ljava/util/List;)Ljava/util/List;

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CodeLineNumberTableLocalVariableTableperm.Lorg/apache/hadoop/fs/permission/FsPermission;entriesLjava/util/
List;aclhasAccessAclZ
entryIterLjava/util/Iterator;curEntry*Lorg/apache/hadoop/fs/permission/AclEntry;LocalVariableTypeTable<Ljava/u
til/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;@Ljava/util/Iterator<Lorg/apache/hadoop/fs/permission/Acl
Entry;>;
StackMapTablepqreSs
Signature(Lorg/apache/hadoop/fs/permission/FsPermission;Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclE
ntry;>;)Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;
getMinimalAcl@(Lorg/apache/hadoop/fs/permission/FsPermission;)Ljava/util/List;l(Lorg/apache/hadoop/fs/permis
sion/FsPermission;)Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;isMinimalAcl(Ljava/util/List;)Z?(
Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;)Z<init>()Vthis)Lorg/apache/hadoop/fs/permission/A
clUtil;
SourceFileAclUtil.javaRuntimeVisibleAnnotationsuLimitedPrivateInnerClassesCLorg/apache/hadoop/classification
/InterfaceAudience$LimitedPrivate;valueHDFS
MapReducewUnstable>Lorg/apache/hadoop/classification/InterfaceStability$Unstable;qxyz{|0org/apache/hadoop/fs
/permission/AclEntry$BuilderBuilder?}~spr(org/apache/hadoop/fs/permission/AclEntry'org/apache/hadoop/fs/per
mission/AclUtiljava/lang/Object,org/apache/hadoop/fs/permission/FsPermissionjava/util/Listjava/util/Iterator,org/ap
ache/hadoop/fs/permission/AclEntryTypeAorg/apache/hadoop/classification/InterfaceAudience$LimitedPrivate<org
/apache/hadoop/classification/InterfaceStability$Unstablesize()Icom/google/common/collect/ListsnewArrayListWit
hCapacity(I)Ljava/util/ArrayList;-
org/apache/hadoop/fs/permission/AclEntryScopeACCESS/Lorg/apache/hadoop/fs/permission/AclEntryScope;setSc
opec(Lorg/apache/hadoop/fs/permission/AclEntryScope;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;USE
R.Lorg/apache/hadoop/fs/permission/AclEntryType;setTypeb(Lorg/apache/hadoop/fs/permission/AclEntryType;)Lo
rg/apache/hadoop/fs/permission/AclEntry$Builder;
getUserAction,()Lorg/apache/hadoop/fs/permission/FsAction;
setPermission^(Lorg/apache/hadoop/fs/permission/FsAction;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;
build,()Lorg/apache/hadoop/fs/permission/AclEntry;add(Ljava/lang/Object;)Ziterator()Ljava/util/Iterator;hasNext(Z
next()Ljava/lang/Object;getScope1()Lorg/apache/hadoop/fs/permission/AclEntryScope;DEFAULTMASKGROUPg
etGroupActionOTHERgetOtherActionnewArrayList*(Ljava/lang/Object;)Ljava/util/ArrayList;2org/apache/hadoop
/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStability1 +`M,Y*
W>+
::+>,W,Y *
W,Y*
W2',W,W,J,/0627:8=9G:S;^<a>c?oDKRSTUY >!"#$$%$2&'():=*+, #-%-.:(./=01123#
011231401123145O67 89hYY*
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SYY*
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@ABCDHI[sJsKNGEtF& LvM& T
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<init>(S)VCodeLineNumberTableLocalVariableTablethisImmutableFsPermissionInnerClassesDLorg/apache/hadoo
p/fs/permission/FsPermission$ImmutableFsPermission;
permissionS
readFields(Ljava/io/DataInput;)VinLjava/io/DataInput;
Exceptions
SourceFileFsPermission.java'java/lang/UnsupportedOperationExceptionBorg/apache/hadoop/fs/permission/FsPermi
ssion$ImmutableFsPermission,org/apache/hadoop/fs/permission/FsPermissionjava/io/IOException()V >*

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l m(n o)p q*r s+t u,v w-x y.z {
}|NONE*Lorg/apache/hadoop/fs/permission/FsAction;EXECUTEWRITE
WRITE_EXECUTE_READ_READ_EXECUTE
READ_WRITEALLvals+[Lorg/apache/hadoop/fs/permission/FsAction;SYMBOLLjava/lang/String;$VALUESvalu
es-
()[Lorg/apache/hadoop/fs/permission/FsAction;LineNumberTablevalueOf>(Ljava/lang/String;)Lorg/apache/ha
dooop/fs/permission/FsAction;LocalVariableTablename<init>((Ljava/lang/String;ILjava/lang/String;)Vthis
Signature(Ljava/lang/String;)Vimplies-(Lorg/apache/hadoop/fs/permission/FsAction;)Zthat
StackMapTableandV(Lorg/apache/hadoop/fs/permission/FsAction;)Lorg/apache/hadoop/fs/permission/FsAction;orn
ot,()Lorg/apache/hadoop/fs/permission/FsAction;getFsActionfsActionarr$len$Ii$
permission0<clinit>()V<Ljava/lang/Enum<Lorg/apache/hadoop/fs/permission/FsAction;>;
SourceFile
FsAction.javaRuntimeVisibleAnnotationsPublicInnerClasses;Lorg/apache/hadoop/classification/InterfaceAudience$
Public;Stable<Lorg/apache/hadoop/classification/InterfaceStability$Stable;300(org/apache/hadoop/fs/permission/Fs
Action8<12/0---<=&'--x('-w-)-wx*'r--+r-x,'rw--
'rwx.'45java/lang/Enum9org/apache/hadoop/classification/InterfaceAudience$Public:org/apache/hadoop/classificati
on/InterfaceStability$Stableclone()Ljava/lang/Object;5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;(Ljav
a/lang/String;I)Vordinal()Ljava/lang/Stringequals(Ljava/lang/Object;)Z2org/apache/hadoop/classification/InterfaceA
udience3org/apache/hadoop/classification/InterfaceStability@1% @&'@(')@*'+@,'@-'@.'/01230 456"
7 8965*7.;2<=6H*+*-7-./:>'?2@ABC6d+*+~+7679:>'D'E@FG6B *+~27>:>'D'HG6B *+27B:>'D'IJ66 *d27F:>' K96*
L+=>+2.*
7RST"R(W:4L$M0!NO PO*Q2E RST6Y
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<init>()VCodeLineNumberTableLocalVariableTablethisInnerClasses4Lorg/apache/hadoop/fs/permission/Permissio
nStatus$1;newInstance!()Lorg/apache/hadoop/io/Writable;
SourceFilePermissionStatus.javaEnclosingMethod0org/apache/hadoop/fs/permission/PermissionStatus2org/apache/
hadoop/fs/permission/PermissionStatus$1java/lang/Object$org/apache/hadoop/io/WritableFactory7(Lorg/apache/ha
dooop/fs/permission/PermissionStatus$1;)V0 /*
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!symbolicZuserModeS groupMode  
othersMode  
stickyModeuserTypeC groupType  
othersType  
stickyBitType<init>G(Ljava/lang/String;Ljava/util/regex/Pattern;Ljava/util/regex/Pattern;)VCodeLineNumberTable  
LocalVariableTablethis2Lorg/apache/hadoop/fs/permission/PermissionParser;modeStrLjava/lang/String;Ljava/util/regex/Pattern;octalmatcherLjava/util/regex/Matcher;  
StackMapTable  
ExceptionsapplyNormalPattern.(Ljava/lang/String;Ljava/util/regex/Matcher;)Vcarr\$[Clen\$I\$strtypeusergroupothers  
stickyBitmodeicommaSeperatedFapplyOctalPatternsbcombineModes(IZ)IexistingexeOkcombineModeSegments(CI  
IZ)IcapX  
SourceFilePermissionParser.javaRuntimeVisibleAnnotationsPrivateInnerClasses<Lorg/apache/hadoop/classification  
/InterfaceAudience\$Private;Unstable>Lorg/apache/hadoop/classification/InterfaceStability\$Unstable;/#\$\*+,+-  
+.:+BCTC"java/lang/IllegalArgumentException/Mjava/lang/RuntimeException  
Unexpected%&'(&)&,Z[0org/apache/hadoop/fs/permission/PermissionParserjava/lang/Objectjava/lang/Stringjava/  
util/regex/Patternjava/util/regex/Matcher:org/apache/hadoop/classification/InterfaceAudience\$Private<org/apache/h  
adoop/classification/InterfaceStability\$Unstable()V3(Ljava/lang/CharSequence;)Ljava/util/regex/Matcher;find()Zm  
atches(Ljava/lang/String;)Vend()Ilength(I)Ljava/lang/String;charAt(I)CtoCharArray()[Ccontains(Ljava/lang/CharSe  
quence;)ZisEmpty substring(I)Ljava/lang/String;java/lang/ShortvalueOf%(Ljava/lang/String;)Ljava/lang/Short;  
shortValue()S2org/apache/hadoop/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStabil  
ity !" #\$\$&'(&)&\*+,--+./01^\*\*\*+\*+\*+\*+.;+Y:  
\*+ \$-+Y:  
  
\*+Y+  
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4" '()\*!\$%728<9J:T<]>34^45^67^#8^98\$::;<<=>??@ABC1>6,+  
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Y6 Y666,:6

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Y\*\*\*\* \$\*\*\*

\*,>@\*22BDE&F/M6NDQPSpTVWYZ]\_aSefikl0n7o:qArDtKuNwVxYz\{ }ikotzD3pKD+ZgEF\_bGHb\_IH  
mD+EFGH

IH6J7D~K+PrL\$NtM\$KwN\$ HzO\$

P&QH4567:;R\$<2=>@>S9 =>@>SA

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pqrsInnerClassesFACTORY&Lorg/apache/hadoop/io/WritableFactory;usernameLjava/lang/String; groupname  
permission.Lorg/apache/hadoop/fs/permission/FsPermission;createImmutable(Ljava/lang/String;Ljava/lang/String;L  
org/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/PermissionStatus;CodeLineNu  
mberTableLocalVariableTableusergroup<init>()Vthis2Lorg/apache/hadoop/fs/permission/PermissionStatus;U(Ljava  
/lang/String;Ljava/lang/String;Lorg/apache/hadoop/fs/permission/FsPermission;)VgetUsername(Ljava/lang/String;

```

getGroupName
getPermission0()Lorg/apache/hadoop/fs/permission/FsPermission;
applyUMaskb(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/PermissionStat
us;umask
readFields(Ljava/io/DataInput;)VinLjava/io/DataInput;
Exceptionstwrite(Ljava/io/DataOutput;)VoutLjava/io/DataOutput;readG(Ljava/io/DataInput;)Lorg/apache/hadoop/fs
/permission/PermissionStatus;pi(Ljava/io/DataOutput;Ljava/lang/String;Ljava/lang/String;Lorg/apache/hadoop/fs/pe
rmission/FsPermission;)VtoString7(Lorg/apache/hadoop/fs/permission/PermissionStatus$1;)Vx04Lorg/apache/hado
op/fs/permission/PermissionStatus$1;<clinit>
SourceFilePermissionStatus.javaRuntimeVisibleAnnotationsvLimitedPrivateCLorg/apache/hadoop/classification/Int
erfaceAudience$LimitedPrivate;valueHDFS
MapReduceXUnstable>Lorg/apache/hadoop/classification/InterfaceStability$Unstable;-
.org/apache/hadoop/fs/permission/PermissionStatus$2-
1!"#"$%&'(Y*+,)-* +", "$%-(/*)=*/0-1(I**+*,*-)@A BCD**/0+", "$%23(*)G*/043(/*)J*/056(/*)M*/078(F**+*)
java/lang/Objectorg/apache/hadoop/io/Writablejava/io/IOExceptionAorg/apache/hadoop/classification/InterfaceAud
ience$LimitedPrivate<org/apache/hadoop/classification/InterfaceStability$Unstable,org/apache/hadoop/fs/permisio
n/FsPermission^(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/FsPermission
;org/apache/hadoop/io/Text
readString((Ljava/io/DataInput;I)Ljava/lang/String;C(Ljava/io/DataInput;)Lorg/apache/hadoop/fs/permission/FsPer
mission;writeString*(Ljava/io/DataOutput;Ljava/lang/String;I)Iappend-
(Ljava/lang/String;)Ljava/lang/StringBuilder;-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;&org/apache/hadoop/io/WritableFactories
setFactory:(Ljava/lang/Class;Lorg/apache/hadoop/io/WritableFactory;)V2org/apache/hadoop/classification/Interface
Audience3org/apache/hadoop/classification/InterfaceStability!
!"#"$% &'(Y*+,)-* +", "$%-(/*)=*/0-1(I**+*,*-)@A BCD**/0+", "$%23(*)G*/043(/*)J*/056(/*)M*/078(F**+*)
TU*/09%:;{)*+
*+
*+)Z
[]*/0<=>?@A(I+****)
ab*/0BC>? DE(K
YL+*+)hi
j*<=F0>? @G(j*+ W*, W-*)tuvw**BC!"#"$%>?H3(T*Y****){**/0-I(9*)!*/0JKL.(4Y
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InnerClassesBuilderownerLjava/lang/String;group stickyBitZentriesLjava/util/List;
Signature<Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;
permission.Lorg/apache/hadoop/fs/permission/FsPermission;getOwner()Ljava/lang/String;CodeLineNumberTableL
ocalVariableTablethis+Lorg/apache/hadoop/fs/permission/AclStatus;getGroupisStickyBit()Z
getEntries()Ljava/util/List;>()Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;
getPermission0()Lorg/apache/hadoop/fs/permission/FsPermission;equals(Ljava/lang/Object;)/ZoLjava/lang/Object;ot
her
StackMapTable}hashCode()ItoString<init>j(Ljava/lang/String;Ljava/lang/String;ZLjava/lang/Iterable;Lorg/apache/
hadoop/fs/permission/FsPermission;)VLjava/lang/Iterable;LocalVariableTypeTable@Ljava/lang/Iterable<Lorg/apac
he/hadoop/fs/permission/AclEntry;>;(Ljava/lang/String;Ljava/lang/String;ZLjava/lang/Iterable<Lorg/apache/hadoo
p/fs/permission/AclEntry;>;Lorg/apache/hadoop/fs/permission/FsPermission;)VgetEffectivePermissionV(Lorg/apach
e/hadoop/fs/permission/AclEntry;)Lorg/apache/hadoop/fs/permission/FsAction;entry*Lorg/apache/hadoop/fs/permis
sion/AclEntry;(Lorg/apache/hadoop/fs/permission/AclEntry;Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/
apache/hadoop/fs/permission/FsAction;
entryPerm*Lorg/apache/hadoop/fs/permission/FsAction;defaultMaskpermArg
Exceptions(Ljava/lang/String;Ljava/lang/String;ZLjava/lang/Iterable;Lorg/apache/hadoop/fs/permission/FsPermissi
on;Lorg/apache/hadoop/fs/permission/AclStatus$1;)Vx0x1x2x3x4x5-
Lorg/apache/hadoop/fs/permission/AclStatus$1;
SourceFileAclStatus.javaRuntimeVisibleAnnotationsPublic;Lorg/apache/hadoop/classification/InterfaceAudience$P
ublic;Stable<Lorg/apache/hadoop/classification/InterfaceStability$Stable;TU012134569:)org/apache/hadoop/fs/per
mission/AclStatusjava/lang/ObjectQjava/lang/StringBuilderTowner: , group: , acl: { entries:
, stickyBit: S<Z^CPermission bits are not available to calculate effective permission<HKR6Passed default ACL
entry not found in the list of
ACLs(org/apache/hadoop/fs/permission/AclEntry+org/apache/hadoop/fs/permission/AclStatus$11org/apache/hadoo
p/fs/permission/AclStatus$Builder"java/lang/IllegalArgumentException9org/apache/hadoop/classification/Interface
Audience$Public;org/apache/hadoop/classification/InterfaceStability$StablegetClass()Ljava/lang/Class;com/google/
common/base/Objectsequal'(Ljava/lang/Object;Ljava/lang/Object;)Zjava/lang/BooleanvalueOf(Z)Ljava/lang/Boolea
n;((Ljava/lang/Object;)I)Vappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;(Z)Ljava/lang/StringBuilder;(C)Ljava/lang/StringBuilder;com/google/
common/collect/ListsnewArrayList+(Ljava/lang/Iterable;)Ljava/util/ArrayList;$com/google/common/base/Precondi
tions
checkArgument(ZLjava/lang/Object;)VgetNamegetType0()Lorg/apache/hadoop/fs/permission/AclEntryType;org/a
pache/hadoop/fs/permission/AclEntryTypeGROUP.Lorg/apache/hadoop/fs/permission/AclEntryType;getScope1(L
org/apache/hadoop/fs/permission/AclEntryScope;-
org/apache/hadoop/fs/permission/AclEntryScopeACCESS/Lorg/apache/hadoop/fs/permission/AclEntryScope;,(Lor
g/apache/hadoop/fs/permission/FsAction;org/apache/hadoop/fs/permission/FsPermissiongetGroupAction(org/apach
e/hadoop/fs/permission/FsActionandV(Lorg/apache/hadoop/fs/permission/FsAction;)Lorg/apache/hadoop/fs/permis
sion/FsAction;java/util/Listcontainsizeget(I)Ljava/lang/Object;2org/apache/hadoop/classification/InterfaceAudienc
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e3org/apache/hadoop/classification/InterfaceStability!
01213456789;<=/*>0?@AB<=/*>9?@ACD=/*>B?@AEF=/*>K?@A7GHI=/*>S?@AJK=S+*++M* . * , * , * ,
>XY[\^_? S@ASLM;NAO=P@QR=Q'
Y*SY*SY*SY*S>g?'@AS<=oE
Y****>]!E@ATU=#**+* , ****> "?>#@A#01#21#34#5V#9:W#5X7YZ[=>
*+*>?
@A
\|Z^=6* , **M+
+ g+!"+#N-,$%*+&*('**'d)*#N+#:-%+#>2!2<AJn
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ru-"/. pq& st&
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!"
#%$<init>U(Ljava/lang/String;Ljava/lang/String;Lorg/apache/hadoop/fs/permission/FsPermission;)VCodeLineNum
berTableLocalVariableTablethisInnerClasses4Lorg/apache/hadoop/fs/permission/PermissionStatus$2;x0Ljava/lang/
String;x1x2.Lorg/apache/hadoop/fs/permission/FsPermission;
applyUMaskb(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/PermissionStat
us;umask
readFields(Ljava/io/DataInput;)VinLjava/io/DataInput;
Exceptions&
SourceFilePermissionStatus.javaEnclosingMethod('java/lang/UnsupportedOperationException)2org/apache/hadoop
/fs/permission/PermissionStatus$20org/apache/hadoop/fs/permission/PermissionStatusjava/io/IOExceptioncreateIm
mutable(Ljava/lang/String;Ljava/lang/String;Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/
fs/permission/PermissionStatus;()VOP*+ , - -
*<Y 0
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=>?@AchmodOctalPatternLjava/util/regex/Pattern;chmodNormalPattern<init>(Ljava/lang/String;)VCodeLineNum
berTableLocalVariableTablethis-Lorg/apache/hadoop/fs/permission/ChmodParser;modeStrLjava/lang/String;
ExceptionsBapplyNewPermission$(Lorg/apache/hadoop/fs/FileStatus;Sfile!Lorg/apache/hadoop/fs/FileStatus;perm
s.Lorg/apache/hadoop/fs/permission/FsPermission;existingIexeOkZ
StackMapTableC<clinit>()V
SourceFileChmodParser.javaRuntimeVisibleAnnotationsEPrivateInnerClasses<Lorg/apache/hadoop/classification/I
nterfaceAudience$Private;GUnstable>Lorg/apache/hadoop/classification/InterfaceStability$Unstable;
HIJKLMLNOPQ^s*[+]?([01]?)([0-7]{3})\s*$RST+\G\s*([ugoa]*)*([+=-
]+)([rwxXt]+)([, \s]*)\s*+org/apache/hadoop/fs/permission/ChmodParser0org/apache/hadoop/fs/permission/Permissi
onParser"java/lang/IllegalArgumentException,org/apache/hadoop/fs/permission/FsPermissionU:org/apache/hadoop/
classification/InterfaceAudience$PrivateV<org/apache/hadoop/classification/InterfaceStability$UnstableG(Ljava/la
ng/String;Ljava/util/regex/Pattern;Ljava/util/regex/Pattern;)Vorg/apache/hadoop/fs/FileStatus
getPermission0()Lorg/apache/hadoop/fs/permission/FsPermission;toShort()SisDirectory()ZcombineModes(IZ)Ijava/
util/regex/Patterncompile-

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(Ljava/lang/String;)Ljava/util/regex/Pattern;2org/apache/hadoop/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStability!

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SourceFileAclStatus.javaEnclosingMethod+org/apache/hadoop/fs/permission/AclStatus\$IInnerClassesjava/lang/Object)org/apache/hadoop/fs/permission/AclStatus

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23456chmodOctalPatternLjava/util/regex/Pattern;umaskSymbolicPattern

umaskModeS<init>(Ljava/lang/String;)VCodeLineNumberTableLocalVariableTablethis-

Lorg/apache/hadoop/fs/permission/UmaskParser;modeStrLjava/lang/String;

Exceptions7getUMask()S

StackMapTable<clinit>()V

SourceFileUmaskParser.javaRuntimeVisibleAnnotations9PrivateInnerClasses<Lorg/apache/hadoop/classification/InterfaceAudience\$Private;;Unstable>Lorg/apache/hadoop/classification/InterfaceStability\$Unstable;

<=>?@^s\*[+]?(0\*)([0-7]{3})\s\*\$ABC)\G\s\*([ugoa]\*)([+=-

]\*)(([rwx]\*)|([, \s]\*)\s\*+org/apache/hadoop/fs/permission/UmaskParser0org/apache/hadoop/fs/permission/Permission

Parser"java/lang/IllegalArgumentExceptionD:org/apache/hadoop/classification/InterfaceAudience\$PrivateE<org/ap

ache/hadoop/classification/InterfaceStability\$UnstableG(Ljava/lang/String;Ljava/util/regex/Pattern;Ljava/util/regex/

Pattern;)VcombineModes(IZ)IsymbolicZjava/util/regex/Patterncompile-

(Ljava/lang/String;)Ljava/util/regex/Pattern;2org/apache/hadoop/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStability

S\*+\*\*\*,-S\*\*~\*;<> -

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45ACCESS/Lorg/apache/hadoop/fs/permission/AclEntryScope;DEFAULT\$VALUES0[Lorg/apache/hadoop/fs/per  
mission/AclEntryScope;values2()[Lorg/apache/hadoop/fs/permission/AclEntryScope;CodeLineNumberTablevalueO  
fC(Ljava/lang/String;)Lorg/apache/hadoop/fs/permission/AclEntryScope;LocalVariableTablenameLjava/lang/String  
;<init>(Ljava/lang/String;)Vthis

Signature()V<clinit>ALjava/lang/Enum<Lorg/apache/hadoop/fs/permission/AclEntryScope;>;

SourceFileAclEntryScope.javaRuntimeVisibleAnnotations7PublicInnerClasses;Lorg/apache/hadoop/classification/I  
nterfaceAudience\$Public;9Stable<Lorg/apache/hadoop/classification/InterfaceStability\$Stable;;-  
org/apache/hadoop/fs/permission/AclEntryScope<

java/lang/Enum=9org/apache/hadoop/classification/InterfaceAudience\$Public>:org/apache/hadoop/classification/Int

erfaceStability\$Stableclone()Ljava/lang/Object;5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;2org/apache

/hadoop/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStability@1@

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D

ImmutableFsPermissionInnerClassesLOG

Lorg/apache/commons/logging/Log;FACTORY&Lorg/apache/hadoop/io/WritableFactory;MAX\_PERMISSION\_LENGTH

ConstantValue

```
useraction*Lorg/apache/hadoop/fs/permission/FsAction;groupactionotheraction
stickyBitZDEPRECATED_UMASK_LABELLjava/lang/String;UMASK_LABEL
DEFAULT_UMASKFSACTION_VALUES+[Lorg/apache/hadoop/fs/permission/FsAction;createImmutable1(S)Lorg/apache/hadoop/fs/permission/FsPermission;CodeLineNumberTableLocalVariableTable
permissionS<init>()Vthis.Lorg/apache/hadoop/fs/permission/FsPermission;(Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;)Vugo(Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Z)Vsb(S)Vmode1(Lorg/apache/hadoop/fs/permission/FsPermission;)Vother(Ljava/lang/String;)V
getUserAction,()Lorg/apache/hadoop/fs/permission/FsAction;getGroupActiongetOtherActionset fromShortnv
StackMapTableawrite(Ljava/io/DataOutput;)VoutLjava/io/DataOutput;
Exceptions
readFields(Ljava/io/DataInput;)VinLjava/io/DataInput;readC(Ljava/io/DataInput;)Lorg/apache/hadoop/fs/permission/FsPermission;ptoShort()SstoExtendedShortequals(Ljava/lang/Object;)ZthatobjLjava/lang/Object;hashCode()ItoString()Ljava/lang/String;str2Ljava/lang/StringBuilder;str
applyUMask^(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/FsPermission;umaskgetUMaskV(Lorg/apache/hadoop/conf/Configuration;)Lorg/apache/hadoop/fs/permission/FsPermission;typeerroriae$Ljava/lang/IllegalArgumentException;
confUmaskoldUmaskconf&Lorg/apache/hadoop/conf/Configuration;getStickyBit()Z
getAclBitgetEncryptedBitsetUMaskW(Lorg/apache/hadoop/conf/Configuration;Lorg/apache/hadoop/fs/permission/FsPermission;)V
getDefault0(Lorg/apache/hadoop/fs/permission/FsPermission;
getDirDefaultgetFileDefaultgetCachePoolDefaultvalueOfB(Ljava/lang/String;)Lorg/apache/hadoop/fs/permission/FsPermission;cCiunixSymbolicPermission3(Lorg/apache/hadoop/fs/permission/FsPermission$1;)Vx00Lorg/apache/hadoop/fs/permission/FsPermission$1;<clinit>
SourceFileFsPermission.javaRuntimeVisibleAnnotationsPublic;Lorg/apache/hadoop/classification/InterfaceAudience$Public;
Stable<Lorg/apache/hadoop/classification/InterfaceStability$Stable;ijBorg/apache/hadoop/fs/permission/FsPermission$ImmutableFsPermissionisUVWVXVYZiq|q)sorg/apache/hadoop/fs/permission/RawParseriw!`a`#%&,org/apache/hadoop/fs/permission/FsPermission'java/lang/StringBuilder()*iw+,V-.tT/01y23imfs.permissions.umask-mode456
dfs.umask78+org/apache/hadoop/fs/permission/UmaskParser"java/lang/IllegalArgumentExceptionjava/lang/NumberFormatExceptiondecimaloctal or symbolicCUnable to parse configuration fs.permissions.umask-mode with value as umask.MN9;~dfs.umask configuration key is deprecated. Convert to fs.permissions.umask-mode, using octal or
```

symbolic umask specifications.% 1\$03ojava/lang/Object<=>?|@AB'length !=  
%d(unixSymbolicPermission=%s)CDEFGHI.org/apache/hadoop/fs/permission/FsPermission\$1OPJKLMNorg/apac  
he/hadoop/io/Writable(org/apache/hadoop/fs/permission/FsActionjava/io/IOExceptionjava/lang/StringO9org/apache  
/hadoop/classification/InterfaceAudience\$PublicP.org/apache/hadoop/classification/InterfaceStability\$Stable  
getPermissionjava/io/DataOutput  
writeShort(I)Vjava/io/DataInput readShortordinalSYMBOLappend-  
(Ljava/lang/String;)Ljava/lang/StringBuilder;lengthEXECUTEimplies-  
(Lorg/apache/hadoop/fs/permission/FsAction;)Zreplace/(IILjava/lang/String;)Ljava/lang/StringBuilder;notandV(Lor  
g/apache/hadoop/fs/permission/FsAction;)Lorg/apache/hadoop/fs/permission/FsAction;\$org/apache/hadoop/conf/Co  
nfigurationget&(Ljava/lang/String;)Ljava/lang/String;getInt(Ljava/lang/String;I)Lorg/apache/commons/logging/Log  
warn(Ljava/lang/Object;)Vjava/lang/Short(S)Ljava/lang/Short;format9(Ljava/lang/String;[Ljava/lang/Object;)Ljava/  
lang/String;'(Ljava/lang/String;Ljava/lang/String;)VsetInt(Ljava/lang/String;I)Vjava/lang/Integer(I)Ljava/lang/Integ  
er;charAt(I)C%org/apache/commons/logging/LogFactorygetLog3(Ljava/lang/Class;)Lorg/apache/commons/logging  
/Log;&org/apache/hadoop/io/WritableFactories  
setFactory:(Ljava/lang/Class;Lorg/apache/hadoop/io/WritableFactory;)Vvalues-  
()[Lorg/apache/hadoop/fs/permission/FsAction;2org/apache/hadoop/classification/InterfaceAudience3org/apache/la  
doo/classification/InterfaceStability!:IMNOPQRSTUVWXYZ[\S(\S&^RS\_`a! bcd3 Ye8f ghjW\*\*\*\*\*eA<  
=>?AfklmU \*+,- e  
JKf\* kl nV oV pViqd"\*\*\*\*\*+,-  
eM< =>?N!Of4"kl"nV"oV"pV"rZisdf\*\*\*\*\*eV< =>?Vfklthiud9\*\*\*\*\*+\*+\*+\*+e\*  
]< =>?^ \_(`0a8bf9kl9vliwdH\*Y+  
e  
jkfkltxyd/\*enfklzyd/\*eqfkl{yd/\*etfkl|qdx\*+\*,\*-\*ewx  
yz{f4klnVoVpVrZ}sd/M\*,|~2,|~2,~2 |~  
e~.f /kl/~h+a7\*dC+\*e  
  
fkldC\*+e  
  
fkl dKYL+\*+e  
fldr/\* \*x\*x\*<e  
,f/kl,R  
@d/\*efkld@+:+M\*(\*,\*,\*,e>f 2l@kl@  
<@d/\*efkldcY\*\*\*L\*4Y+M,,d,\* !"W,L+e)09\af 9(ckl):2Vdf2Y\*+##\$\*+##\$%ef2kl2l dr<\*&'M\*()\*>,+Y,,  
<T:/01:Y2,34:56)  
.Y7)586<Y'\*.eJ'  
\*,=akq{  
fH=>\a,\O{\RR'BA?d/\*efkld,e&fkld,e-fkl d`\$\*&9:Y+;S<=\*(+>e23#4f\$! d#YeA d#YeH d#YeO d#YeV d3\*\*?  
.Y@:Y  
ASY\*S<7<=??-x<\*B>-T S`<\* Bt\* BT Ye6  
^\_ab,g.h8i<jBk\hboxq~sf\*B02R\,Z~R- %\$Cid9\*e'fkljdT,C5DYEFFFGFGHe( \*/0%  
K"J  
D& &  
3a  
;  
<=> ? @ ABCDEFGFHI JK

LMNownerLjava/lang/String;group stickyBitZentriesLjava/util/List;  
Signature<Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;

```

permission.Lorg/apache/hadoop/fs/permission/FsPermission;<init>()VCodeLineNumberTableLocalVariableTableleth
isBuilderInnerClasses3Lorg/apache/hadoop/fs/permission/AclStatus$Builder;G(Ljava/lang/String;)Lorg/apache/had
oop/fs/permission/AclStatus$Builder;addEntry_(Lorg/apache/hadoop/fs/permission/AclEntry;)Lorg/apache/hadoop/
fs/permission/AclStatus$Builder;e*Lorg/apache/hadoop/fs/permission/AclEntry;
addEntriesI(Ljava/lang/Iterable;)Lorg/apache/hadoop/fs/permission/AclStatus$Builder;i$Ljava/util/Iterator;Ljava/la
ng/Iterable;LocalVariableTypeTable@Ljava/lang/Iterable<Lorg/apache/hadoop/fs/permission/AclEntry;>;
StackMapTableOu(Ljava/lang/Iterable<Lorg/apache/hadoop/fs/permission/AclEntry;>;)Lorg/apache/hadoop/fs/per
mission/AclStatus$Builder;6(Z)Lorg/apache/hadoop/fs/permission/AclStatus$Builder;
setPermissionc(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/AclStatus$Buil
der;build-()Lorg/apache/hadoop/fs/permission/AclStatus;
SourceFileAclStatus.javaPQRSTUVWXYZ[(org/apache/hadoop/fs/permission/AclEntry)org/apache/hadoop/fs/pe
rmission/AclStatus_1org/apache/hadoop/fs/permission/AclStatus$Builderjava/lang/Objectjava/util/Iteratorcom/goog
le/common/collect/ListsnewArrayList()Ljava/util/ArrayList;java/util/Listadd(Ljava/lang/Object;)ZLjava/lang/Iterable
iterator()Ljava/util/Iterator;hasNext()Znext()Ljava/lang/Object;` (Ljava/lang/String;Ljava/lang/String;ZLjava/lang/It
erable;Lorg/apache/hadoop/fs/permission/FsPermission;Lorg/apache/hadoop/fs/permission/AclStatus$1;)V+org/apa
che/hadoop/fs/permission/AclStatus$1!C***y}~ !%?*+*
!%?*+*
!$&'E
*+W*

!$
()*+*+M, ,
N*-W*( *(!,-*!$*./012 34?***
!$56?*+*
!$78G
Y***** !9:#
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```
InnerClassesBuildertype.Lorg/apache/hadoop/fs/permission/AclEntryType;nameLjava/lang/String;
permission*Lorg/apache/hadoop/fs/permission/FsAction;scope/Lorg/apache/hadoop/fs/permission/AclEntryScope;g
etType0()Lorg/apache/hadoop/fs/permission/AclEntryType;CodeLineNumberTableLocalVariableTablethis*Lorg/ap
ache/hadoop/fs/permission/AclEntry;getName()Ljava/lang/String;
getPermission,(Lorg/apache/hadoop/fs/permission/FsAction;getScope1()Lorg/apache/hadoop/fs/permission/AclEnt
ryScope;equals(Ljava/lang/Object;Z)Ljava/lang/Object;other
StackMapTablehashCode()ItoStringRuntimeVisibleAnnotationsUnstable>Lorg/apache/hadoop/classification/Interfa
ceStability$Unstable;toStringStablesLjava/lang/StringBuilder;<init>(Lorg/apache/hadoop/fs/permission/AclEntryT
ype;Ljava/lang/String;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/AclEntrySco
pe;)VparseAclSpec%(Ljava/lang/String;Z)Ljava/util/List;aclEntryaclStri$Ljava/util/Iterator;aclSpecincludePermissi
onZ
aclEntriesLjava/util/List;
aclStringsLjava/util/Collection;LocalVariableTypeTable<Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEnt
ry;>;*Ljava/util/Collection<Ljava/lang/String;>;>;
SignatureQ(Ljava/lang/String;Z)Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;
parseAclEntry?(Ljava/lang/String;Z)Lorg/apache/hadoop/fs/permission/AclEntry;iae$Ljava/lang/IllegalArgumentE
xception;fsActionbuilder2Lorg/apache/hadoop/fs/permission/AclEntry$Builder;split[Ljava/lang/String;indexIaclTyp
eaclSpecToString$(Ljava/util/List;Ljava/lang/String;ebufP(Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclE
ntry;>;)Ljava/lang/String;(Lorg/apache/hadoop/fs/permission/AclEntryType;Ljava/lang/String;Lorg/apache/hadoop/
fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/AclEntryScope;Lorg/apache/hadoop/fs/permission/AclE
ntry$1;)Vx0x1x2x3x4,Lorg/apache/hadoop/fs/permission/AclEntry$1;
SourceFile
AclEntry.javaPublic;Lorg/apache/hadoop/classification/InterfaceAudience$Public;Stable<Lorg/apache/hadoop/class
ification/InterfaceStability$Stable;fg?@ABCDEF(org/apache/hadoop/fs/permission/AclEntryjava/lang/Object[boJva
va/lang/StringBuilderfFdefault:BJOjava/util/ArrayList,java/lang/String}~U0org/apache/hadoop/fs/permission/AclEn
try$Builder:0org/apache/hadoop/HadoopIllegalArgumentExceptionInvalid <aclSpec> :
fdefaultTU,org/apache/hadoop/fs/permission/AclEntryType
"java/lang/IllegalArgumentException"Invalid type of acl in <aclSpec> :
"Invalid permission in <aclSpec> :
]O\*org/apache/hadoop/fs/permission/AclEntry$1<org/apache/hadoop/classification/InterfaceStability$Unstablejava
/util/Listjava/util/Collectionjava/util/Iterator(org/apache/hadoop/fs/permission/FsAction9org/apache/hadoop/classifi
cation/InterfaceAudience$Public:org/apache/hadoop/classification/InterfaceStability$StablegetClass()Ljava/lang/Cl
ass;com/google/common/base/Objectsequal'(Ljava/lang/Object;Ljava/lang/Object;Z)(Ljava/lang/Object;)I(OV-
org/apache/hadoop/fs/permission/AclEntryScopeDEFAULTappend-
(Ljava/lang/String;)Ljava/lang/StringBuilder;"org/apache/hadoop/util/StringUtilstoLowerCase&(Ljava/lang/String;)
Ljava/lang/String;(C)Ljava/lang/StringBuilder;SYMBOLgetStringCollection<(Ljava/lang/String;Ljava/lang/String;)
Ljava/util/Collection;iterator()Ljava/util/Iterator;hasNext()Znext()Ljava/lang/Object;add'(Ljava/lang/String;)[Ljava/l
ang/String;(Ljava/lang/String;)VsetScopec(Lorg/apache/hadoop/fs/permission/AclEntryScope;)Lorg/apache/hadoop
```



```

/fs/permission/AclEntry$Builder;toUpperCasejava/lang/EnumvalueOf5(Ljava/lang/Class;Ljava/lang/String;)Ljava/l
ang/Enum;setTypeb(Lorg/apache/hadoop/fs/permission/AclEntryType;)Lorg/apache/hadoop/fs/permission/AclEntry
$Builder;isEmptysetNameF(Ljava/lang/String;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;getFsAction>(
Ljava/lang/String;)Lorg/apache/hadoop/fs/permission/FsAction;
setPermission^(Lorg/apache/hadoop/fs/permission/FsAction;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;
build,()Lorg/apache/hadoop/fs/permission/AclEntry;length
substring(II)Ljava/lang/String;3org/apache/hadoop/classification/InterfaceStability2org/apache/hadoop/classificatio
n/InterfaceAudience! ?@ABCDEF
GHI/*J4KLMNOI/*J=KLMPQI/*JFKLMRSI/*JOKLMTUIV+*++M*,1*,#*,*,JTUWXYZ[K
VLMVVW>XMY@Z@[IN$ Y*SY*SY*SY*S
JcK$LM]OI/*JkKLM^abOIeY
L*
+W*+*W+:W*+*W+:W*+*W+J2xyz| }/6=FMT` KeLM]cdYefgI**+*,*-*J K4LM?@ABCDEF hiICYM*N-:#:.,
W,J-5>AKH5 jM-kB*lmCnBCop;qr4stu;qv4swYxyz){| }~IQ!Y"M*#$N-% YY
&*'6(-2),*W-% YY
&*':+-2,-+,:.W :% YY
0*'--2:1
,2W]-% YY
&*'-2:3:% YY
4*',5W-% YY
&*',6:m/J# /2=@HOjm !%"#'()* ,/014567:#;&>-?HANBKpAB2CB+DQkBQopIB2m@NjMY@/!!%- ! IAY
L*7M, ,N+-8W+W++9d:JKL"M+N2O5PK*"M&lmAnr9duAnvYez% {ff
*+,-J(K>
LM
@
B
D
F
^
=*;!> _`& & &
3

```

#### SourceFile

```

AclEntry.javaEnclosingMethod*org/apache/hadoop/fs/permission/AclEntry$1InnerClassesjava/lang/Object(org/apa
che/hadoop/fs/permission/AclEntry
3`
;
<=>
?@ A=B C=DE
F GHIJPIVOT_NOT_FOUNDI
ConstantValue
accessEntriesLjava/util/List;
Signature<Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;defaultEntries<init>(Ljava/util/List;)VCod
eLineNumberTableLocalVariableTablethis2Lorg/apache/hadoop/fs/permission/ScopedAclEntries;
aclEntriespivotLocalVariableTypeTable
StackMapTableIK?(Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;)VgetAccessEntries()Ljava/util/L
ist;>(Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;)getDefaultEntriescalculatePivotOnDefaultEntri

```

```

es(Ljava/util/List;)Ii
aclBuilder?(Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;)I
SourceFileScopedAclEntries.javaRuntimeVisibleAnnotationsMLimitedPrivateInnerClassesCLorg/apache/hadoop/cl
assification/InterfaceAudience$LimitedPrivate;valueHDFS
MapReduceOUnstable>Lorg/apache/hadoop/classification/InterfaceStability$Unstable;P)*KQRST&UVWX(org/ap
ache/hadoop/fs/permission/AclEntryYZ[\]0org/apache/hadoop/fs/permission/ScopedAclEntriesjava/lang/Objectjava/
util/List^Aorg/apache/hadoop/classification/InterfaceAudience$LimitedPrivate_<org/apache/hadoop/classification/I
nterfaceStability$Unstable()VsubList(II)Ljava/util/List;java/util/Collections
emptyListsSize()Iget(I)Ljava/lang/Object;getScope1()Lorg/apache/hadoop/fs/permission/AclEntryScope;-
org/apache/hadoop/fs/permission/AclEntryScopeDEFAULT/Lorg/apache/hadoop/fs/permission/AclEntryScope;2or
g/apache/hadoop/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStability1
E*+-.*+*++*+*/0 12$486=7D9 EE < E!"###"#$%&/*B'(&/*L'
)*<*
XYZ!X]%+),),!
-./045[s6s7:31L2& 8N9&
3/$
%
&'(serialVersionUIDJ
ConstantValue<init>()VCodeLineNumberTableLocalVariableTablethis8Lorg/apache/hadoop/fs/permission/Access
ControlException;(Ljava/lang/String;)VsLjava/lang/String;(Ljava/lang/Throwable;)VcauseLjava/lang/Throwable;
SourceFileAccessControlException.java
DeprecatedRuntimeVisibleAnnotationsLjava/lang/Deprecated;*PublicInnerClasses;Lorg/apache/hadoop/classificati
on/InterfaceAudience$Public;Stable<Lorg/apache/hadoop/classification/InterfaceStability$Stable;Permission
denied.6org/apache/hadoop/fs/permission/AccessControlExceptionjava/io/IOException-
9org/apache/hadoop/classification/InterfaceAudience$Public.:org/apache/hadoop/classification/InterfaceStability$St
able2org/apache/hadoop/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStability!
5*
*+
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34
>*+
@A #)& !+"&

```

This product includes software developed by The Apache Software Foundation (<http://www.apache.org/>).

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-----  
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  - \* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/>

\* <http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jboss/cache/experimental/jsr166/>

This product contains a modified version of Robert Harder's Public Domain Base64 Encoder and Decoder, which can be obtained at:

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\* HOMEPAGE:

\* <http://iharder.sourceforge.net/current/java/base64/>

This product contains a modified portion of 'Webbit', an event based WebSocket and HTTP server, which can be obtained at:

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\* HOMEPAGE:

\* <https://github.com/joewalnes/webbit>

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This product contains a modified version of Roland Kuhn's ASL2 AbstractNodeQueue, which is based on Dmitry Vyukov's non-intrusive MPSC queue. It can be obtained at:

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\* HOMEPAGE:

\* <https://github.com/akka/akka/blob/wip-2.2.3-for-scala-2.11/akka->

actor/src/main/java/akka/dispatch/AbstractNodeQueue.java

This product contains a modified portion of 'jzip2', a Java bzip2 compression and decompression library written by Matthew J. Francis. It can be obtained at:

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- \* HOMEPAGE:
- \* <https://code.google.com/p/jzip2/>

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- \* <https://code.google.com/p/libdivsufsort/>

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- \* HOMEPAGE:
- \* <https://github.com/JCTools/JCTools>

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- \* HOMEPAGE:
- \* <http://www.jcraft.com/jzlib/>

This product optionally depends on 'Compress-LZF', a Java library for encoding and decoding data in LZF format, written by Tatu Saloranta. It can be obtained at:

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- \* license/LICENSE.compress-lzf.txt (Apache License 2.0)
- \* HOMEPAGE:
- \* <https://github.com/ning/compress>

This product optionally depends on 'lz4', a LZ4 Java compression and decompression library written by Adrien Grand. It can be obtained at:

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\* HOMEPAGE:

\* <https://github.com/jpountz/lz4-java>

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\* <https://github.com/jponge/lzma-java>

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org.apache.tomcat:tomcat-util-scan

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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For:

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css

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Mockito 1.8.5

SLF4J 1.7.10

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-1.10.2.min.js

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery

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For:

[hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js.gz](#)

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For:

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js

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jsp-api 2.1

Streaming API for XML 1.0

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LZ4 - Fast LZ compression algorithm

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For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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 */
```

For portions of the native implementation of slicing-by-8 CRC calculation in src/main/native/src/org/apache/hadoop/util:

```
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 */
```

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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You can contact the author at :

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- LZ4 public forum : <https://groups.google.com/forum/#!forum/lz4c>

\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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org.ow2.asm:asm-commons

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org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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```

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```
/*  
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For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js

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bject;Ljava/lang/Object;)Vfail
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- \* <https://github.com/akka/akka/blob/wip-2.2.3-for-scala-2.11/akka-actor/src/main/java/akka/dispatch/AbstractNodeQueue.java>

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  - \* <http://wiki.fasterxml.com/AaltoHome>

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The content of package org.apache.commons.codec.language.bm has been translated from the original php source code available at <http://stevemorse.org/phoneticinfo.htm> with permission from the original authors.

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Dumbster SMTP test server

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Eclipse

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The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

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

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Oracle OpenJDK

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

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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

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

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Apache

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

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

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

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The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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- \* Alec Wysoker
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in src/main/native/src/org/apache/hadoop/util:

```
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```

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```
/*  
 LZ4 - Fast LZ compression algorithm  
 Header File  
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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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

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

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

Oracle OpenJDK

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

- \* java.sun.security.ssl

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org.ow2.asm:asm-commons  
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org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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```

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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For:

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css

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Mockito 1.8.5

SLF4J 1.7.10

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`hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js`  
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Streaming API for XML 1.0

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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org.ow2.asm:asm-commons

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org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

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For portions of the native implementation of slicing-by-8 CRC calculation  
in src/main/native/src/org/apache/hadoop/util:

```
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 */
```

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

```
/*  
 LZ4 - Fast LZ compression algorithm  
 Header File  
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```

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You can contact the author at :

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- LZ4 public forum : <https://groups.google.com/forum/#!forum/lz4c>

\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2  
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js  
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/\*

LZ4 - Fast LZ compression algorithm

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-1.10.2.min.js

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## 2.6.5 2.6.5

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org.eclipse.jetty.toolchain:jetty-schemas

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 */
```

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in src/main/native/src/org/apache/hadoop/util:

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```
/*
LZ4 - Fast LZ compression algorithm
Header File
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```
*/
```

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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org.eclipse.jetty.toolchain:jetty-schemas

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css

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Mockito 1.8.5

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-1.10.2.min.js

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js

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 */
```

For portions of the native implementation of slicing-by-8 CRC calculation in src/main/native/src/org/apache/hadoop/util:

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\*/

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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You can contact the author at :

- LZ4 source repository : <http://code.google.com/p/lz4/>

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-`



nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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 */
```

For portions of the native implementation of slicing-by-8 CRC calculation  
in src/main/native/src/org/apache/hadoop/util:

```
/**
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```

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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\*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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org.eclipse.jetty.toolchain:jetty-schemas

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For portions of the native implementation of slicing-by-8 CRC calculation  
in src/main/native/src/org/apache/hadoop/util:

```
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 */
```

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```
/*  
 LZ4 - Fast LZ compression algorithm  
 Header File  
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```

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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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org.eclipse.jetty.toolchain:jetty-schemas

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## Assorted

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For portions of the native implementation of slicing-by-8 CRC calculation in src/main/native/src/org/apache/hadoop/util:

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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You can contact the author at :

- LZ4 source repository : <http://code.google.com/p/lz4/>

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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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`hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css`

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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## 1.135 hadoop-mapreduce-client-jobclient

### 2.6.5

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LZ4 - Fast LZ compression algorithm

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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### 2.8.1

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org.apache.taglibs:taglibs-standard-impl

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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```

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```
/*  
 LZ4 - Fast LZ compression algorithm  
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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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For:

XML Commons External Components XML APIs 1.3.04

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\* java.sun.security.ssl

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org.ow2.asm:asm-commons

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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/\*

LZ4 - Fast LZ compression algorithm

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For:

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css

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Mockito 1.8.5

SLF4J 1.7.10

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For:

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-1.10.2.min.js

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery

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For:

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js.gz

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For:

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js

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jsp-api 2.1

Streaming API for XML 1.0

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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For portions of the native implementation of slicing-by-8 CRC calculation  
in src/main/native/src/org/apache/hadoop/util:

```
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 */
```

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

```
/*
LZ4 - Fast LZ compression algorithm
Header File
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```

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You can contact the author at :

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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2  
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js  
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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-`

nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery

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org.eclipse.jetty.toolchain:jetty-schemas

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For portions of the native implementation of slicing-by-8 CRC calculation  
in src/main/native/src/org/apache/hadoop/util:

```
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 */
```

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```
/*  
 LZ4 - Fast LZ compression algorithm  
 Header File  
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```

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For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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- \* Tatu Saloranta
- \* Providing benchmark suite
- \* Alec Wysoker
- \* Performance and memory usage improvement

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in src/main/native/src/org/apache/hadoop/util:

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 */
```

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```
/*  
 LZ4 - Fast LZ compression algorithm  
 Header File  
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```

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You can contact the author at :

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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js  
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 */
```

For portions of the native implementation of slicing-by-8 CRC calculation in src/main/native/src/org/apache/hadoop/util:

```
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```

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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You can contact the author at :

- LZ4 source repository : <http://code.google.com/p/lz4/>

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\*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with

classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----  
OW2

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

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

-----  
Apache

The following artifacts are ASL2 licensed.

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

-----  
MortBay

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

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

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

-----  
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The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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== Contributors ==

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  - \* Providing benchmark suite
- \* Alec Wysoker
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```
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```

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

```
/*  
 LZ4 - Fast LZ compression algorithm  
 Header File  
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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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\* javax.transaction:javax.transaction-api  
\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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\* java.sun.security.ssl

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org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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

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

-----

Apache

The following artifacts are ASL2 licensed.

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

org.apache.taglibs:taglibs-standard-impl

-----

#### MortBay

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

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

-----

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The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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#### Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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\*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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For:

XML Commons External Components XML APIs 1.3.04

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org.eclipse.jetty.toolchain:jetty-schemas

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```
/*  
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Header File  
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For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js

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For:



hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css

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Mockito 1.8.5

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-1.10.2.min.js

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js  
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org.eclipse.jetty.toolchain:jetty-schemas

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LZ4 - Fast LZ compression algorithm

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For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-1.10.2.min.js

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org.eclipse.jetty.toolchain:jetty-schemas

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LZ4 - Fast LZ compression algorithm

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-1.10.2.min.js

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js

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org.eclipse.jetty.toolchain:jetty-schemas

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For portions of the native implementation of slicing-by-8 CRC calculation  
in src/main/native/src/org/apache/hadoop/util:

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```

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```
/*  
 LZ4 - Fast LZ compression algorithm  
 Header File  
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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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- \* Tatu Saloranta
- \* Providing benchmark suite
- \* Alec Wysoker
- \* Performance and memory usage improvement

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```

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```
/*
 LZ4 - Fast LZ compression algorithm
 Header File
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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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 */
```

For portions of the native implementation of slicing-by-8 CRC calculation in src/main/native/src/org/apache/hadoop/util:

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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You can contact the author at :

- LZ4 source repository : <http://code.google.com/p/lz4/>

- LZ4 public forum : <https://groups.google.com/forum/#!forum/lz4c>

\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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org.apache.tomcat:tomcat-jasper-el  
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org.apache.tomcat:tomcat-util-scan  
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org.mortbay.jasper:apache-el  
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org.eclipse.jetty.toolchain:jetty-schemas

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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### 2.8.3

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in src/main/native/src/org/apache/hadoop/util:

```
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*/
```

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```
/*  
 LZ4 - Fast LZ compression algorithm  
 Header File  
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```

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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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=====
```

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-----  
Eclipse

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

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

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

-----

## Oracle

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

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

-----

## Oracle OpenJDK

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

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

## OW2

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

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

-----

## Apache

The following artifacts are ASL2 licensed.

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

-----

## MortBay

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

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

-----

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org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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- \* Performance and memory usage improvement

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 */
```

For portions of the native implementation of slicing-by-8 CRC calculation  
in src/main/native/src/org/apache/hadoop/util:

```
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 */
```

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

```
/*
 LZ4 - Fast LZ compression algorithm
```

Header File

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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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`hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js`

`hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css`

`hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js`

`hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/`

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-1.10.2.min.js

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery

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LZ4 - Fast LZ compression algorithm

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For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For:

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/  
-----

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For:

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js

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For:

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-1.10.2.min.js

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js

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### 2.8.3

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 */
```

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in src/main/native/src/org/apache/hadoop/util:

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```
/*
LZ4 - Fast LZ compression algorithm
Header File
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```
*/
```

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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For portions of the native implementation of slicing-by-8 CRC calculation  
in src/main/native/src/org/apache/hadoop/util:

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```

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```
/*
 LZ4 - Fast LZ compression algorithm
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\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/  
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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## 1.175 htrace-core 3.0.4

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# 1.178 httpclient 4.5.4

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# 1.185 httpcore 4.4.4

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# 1.186 httpcore 4.4.5

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```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
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<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
```

```

<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
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```

```

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```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

  <div class="container">

```

```

    <div class="navbar-header">

```

```

      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

```

```

        <span class="sr-only">Toggle navigation</span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

      </button>

```

```

      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

```

```

    </div>

```

```

    <div class="collapse navbar-collapse" id="mainnav-collapse">

```

```

      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&a
href="/licenses/">Licenses</a></div>

```

```

      <ul class="nav navbar-nav navbar-right">

```

```

        <li class="dropdown">

```

```

          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

```

```

          <ul class="dropdown-menu" role="menu">

```

```

            <li><a href="/foundation">Overview</a></li>

```

```

            <li><a href="/foundation/members.html">Members</a></li>

```

```

            <li><a href="/foundation/how-it-works.html">Process</a></li>

```

```

            <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>

```

```

            <li><a href="/foundation/glossary.html">Glossary</a></li>

```

```

<li><a href="/foundation/preFAQ.html">FAQ</a></li>
<li><a href="/foundation/contact.html ">Contact</a></li>
</ul>
</li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org/">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
  </ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-6 col-sm-5 col-xs-12">
    
  </div>
  <div class="col-md-3 col-sm-3 col-xs-6">

```

```

<a href="http://apache.org/foundation/contributing.html" title="Support Apache">
  
</a>
</div>
<div class="col-md-3 col-sm-4 col-xs-6">
  <div class="input-group" style="margin-bottom: 5px;">
    <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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</pre></div></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<br />

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="http://community.apache.org/">Overview</a></li>

<li><a href="/foundation/conferences.html">Conferences</a></li>

<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>

<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>

<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>

<li><a href="/travel/">Travel Assistance</a></li>

<li><a href="/foundation/getinvolved.html">Get Involved</a></li>

<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>

<li><a href="/memorials/">Memorials</a></li>

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Innovation</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="http://incubator.apache.org/">Incubator</a></li>

<li><a href="http://labs.apache.org/">Labs</a></li>

<li><a href="/licenses/">Licensing</a></li>

<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>

<li><a href="/foundation/marks/">Trademark Policy</a></li>

<li><a href="/foundation/contact.html">Contacts</a></li>

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Tech Operations</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="/dev/">Developer Information</a></li>

<li><a href="/dev/infrastructure.html">Infrastructure</a></li>

<li><a href="/security/">Security</a></li>

<li><a href="http://status.apache.org">Status</a></li>

<li><a href="/foundation/contact.html">Contacts</a></li>

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Press</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="/press/">Overview</a></li>

<li><a href="https://blogs.apache.org/">ASF News</a></li>

<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>

<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>

<li><a href="/press/#contact">Contacts</a></li>

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Legal</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="/legal/">Legal Affairs</a></li>

<li><a href="/licenses/">Licenses</a></li>

<li><a href="/foundation/marks/">Trademark Policy</a></li>

<li><a href="/foundation/records/">Public Records</a></li>

<li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>

<li><a href="/licenses/exports/">Export Information</a></li>

<li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>

<li><a href="/foundation/contact.html">Contacts</a></li>

</ul>

```

</div>

<div class="col-sm-1">
</div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
  <p class="text-center">Copyright &#169; 2017 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
  <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
</div>
</div>
</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>

```

# 1.187 httpcore 4.4.7

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## 1.189 ivy 2.4.0

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 */
package org.apache.ivy.core.module.descriptor;

public class License {
    private String name;

    private String url;
```

```

public License(String name, String url) {
    this.name = name;
    this.url = url;
}

public String getName() {
    return name;
}

public String getUrl() {
    return url;
}
}

```

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/\* Jackson JSON-processor.

\*

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\*

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## 1.193 jackson-jaxrs 1.9.13

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## 1.194 jackson-mapper-asl 1.9.13

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## 1.198 janino 3.0.8

## 1.199 java-util 1.9.0

## 1.200 java-xmlbuilder 1.1

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### 1.1

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## 1.208 Javax.Servlet-api 3.1.0

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## 1.212 jaxb-api 2.2.2

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/**
 * Default implementation of the Attributes interface.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * <p>This class provides a default implementation of the SAX2
 * { @link org.xml.sax.Attributes Attributes } interface, with the
 * addition of manipulators so that the list can be modified or
 * reused.</p>
 *
 * <p>There are two typical uses of this class:</p>
 *
 * <ol>
 * <li>to take a persistent snapshot of an Attributes object
 * in a { @link org.xml.sax.ContentHandler#startElement startElement } event; or</li>
 * <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
 * </ol>
 *
 * <p>This class replaces the now-deprecated SAX1 { @link
 * org.xml.sax.helpers.AttributeListImpl AttributeListImpl }
 * class; in addition to supporting the updated Attributes
 * interface rather than the deprecated { @link org.xml.sax.AttributeList
 * AttributeList } interface, it also includes a much more efficient
 * implementation using a single array rather than a set of Vectors.</p>
 *
 * @since JAXB1.0
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 */
// NamespaceSupport.java - generic Namespace support for SAX.
// http://www.saxproject.org
// Written by David Megginson
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# RELAX NG Schema for WSDL 1.1 HTTP Binding
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 \*/  
 package com.sun.jersey.api.client;

```
import java.io.IOException;
import java.io.OutputStream;
```

```
/**
 * A committing output stream that commits before
 * the first byte is written to the adapted {@link OutputStream}.
 * <p>
 * This class may be overridden to provide the commit functionality.
 *
 * @author Paul.Sandoz@Sun.Com
 */
public abstract class CommittingOutputStream extends OutputStream {

    private OutputStream o;
```



```

private boolean isCommitted;

/**
 * Construct a new instance.
 * <p>
 * The method { @link #getOutputStream() } MUST be overridden
 * to return an output stream.
 */
public CommittingOutputStream() {
}

/**
 * Construct a new instance with an output stream to adapt.
 *
 * @param o the adapted output stream.
 * @throws IllegalArgumentException if <code>o</code> is null.
 */
public CommittingOutputStream(OutputStream o) {
    if (o == null)
        throw new IllegalArgumentException();

    this.o = o;
}

@Override
public void write(byte b[]) throws IOException {
    commitWrite();
    o.write(b);
}

@Override
public void write(byte b[], int off, int len) throws IOException {
    commitWrite();
    o.write(b, off, len);
}

public void write(int b) throws IOException {
    commitWrite();
    o.write(b);
}

@Override
public void flush() throws IOException {
    commitWrite();
    o.flush();
}

```

```

@Override
public void close() throws IOException {
    commitWrite();
    o.close();
}

private void commitWrite() throws IOException {
    if (!isCommitted) {
        isCommitted = true;

        commit();

        if (o == null)
            o = getOutputStream();
    }
}

/**
 * Get the adapted output stream.
 * <p>
 * This method MUST be overridden if the empty constructor is
 * utilized to construct an instance of this class.
 *
 * @return the adapted output stream.
 * @throws java.io.IOException
 */
protected OutputStream getOutputStream() throws IOException {
    throw new IllegalStateException();
}

/**
 * Perform the commit functionality.
 *
 * @throws java.io.IOException
 */
protected abstract void commit() throws IOException;
};
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\*/

```
package com.sun.jersey.client.impl;
```

```
import com.sun.jersey.api.client.ClientRequest;
import com.sun.jersey.api.client.ClientRequestAdapter;
import com.sun.jersey.core.header.OutBoundHeaders;
```

```
import javax.ws.rs.core.MultivaluedMap;
import java.io.IOException;
import java.io.OutputStream;
import java.net.URI;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
```

```
public final class ClientRequestImpl extends ClientRequest implements ClientRequestAdapter {
    private Map<String, Object> properties;

    private URI uri;
```

```

private String method;

private Object entity;

private final MultivaluedMap<String, Object> metadata;

private ClientRequestAdapter adapter;

public ClientRequestImpl(URI uri, String method) {
    this(uri, method, null, null);
}

public ClientRequestImpl(URI uri, String method, Object entity) {
    this(uri, method, entity, null);
}

public ClientRequestImpl(URI uri, String method,
    Object entity, MultivaluedMap<String, Object> metadata) {
    this.uri = uri;
    this.method = method;
    this.entity = entity;
    this.metadata = (metadata != null) ? metadata : new OutBoundHeaders();
    this.adapter = this;
}

public Map<String, Object> getProperties() {
    if (properties == null)
        properties = new HashMap<String, Object>();

    return properties;
}

public void setProperties(Map<String, Object> properties) {
    this.properties = properties;
}

public URI getURI() {
    return uri;
}

public void setURI(URI uri) {
    this.uri = uri;
}

public String getMethod() {
    return method;
}

```

```

public void setMethod(String method) {
    this.method = method;
}

public Object getEntity() {
    return entity;
}

public void setEntity(Object entity) {
    this.entity = entity;
}

public MultivaluedMap<String, Object> getMetadata() {
    return getHeaders();
}

public MultivaluedMap<String, Object> getHeaders() {
    return metadata;
}

public ClientRequestAdapter getAdapter() {
    return adapter;
}

public void setAdapter(ClientRequestAdapter adapter) {
    this.adapter = (adapter != null) ? adapter : this;
}

@Override
public ClientRequest clone() {
    return new ClientRequestImpl(this.uri, this.method,
        this.entity, clone(this.metadata));
}

private static MultivaluedMap<String, Object> clone(MultivaluedMap<String, Object> md) {
    MultivaluedMap<String, Object> clone = new OutBoundHeaders();
    for (Map.Entry<String, List<Object>> e : md.entrySet()) {
        clone.put(e.getKey(), new ArrayList<Object>(e.getValue()));
    }
    return clone;
}

// ClientRequestAdapter

public OutputStream adapt(ClientRequest request, OutputStream out) throws IOException {
    return out;
}

```

```

}
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*/
package com.sun.ws.rs.ext;

import com.sun.jersey.core.spi.factory.AbstractRuntimeDelegate;
import javax.ws.rs.core.Application;
import javax.ws.rs.ext.RuntimeDelegate;

/**
* A default client-based and hardcoded implementation of

```

```

* { @link RuntimeDelegate } that will be instantiated if all look up mechanisms
* fail to find an instance.
* <p>
* A hardcoded reference to this class name occurs in the { @link RuntimeDelegate }
* class present in the JAX-RS api jar.
*
* @author Paul.Sandoz@Sun.Com
*/
public class RuntimeDelegateImpl extends AbstractRuntimeDelegate {

    @Override
    public <T> T createEndpoint(Application application, Class<T> endpointType)
        throws IllegalArgumentException, UnsupportedOperationException {
        throw new UnsupportedOperationException();
    }
}

```

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## 1.231 jna 4.4.0-1

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## 1.240 json-smart 1.1.1

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Rev. April, 2006

Sun/Final/Full

## 1.249 jts 1.13

## 1.250 jul-to-slf4j 1.7.16

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## 1.252 JUnit 4.12

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## 1.253 junit-interface 0.11

## 1.254 kafka-clients 0.11.0.0.-test

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## 1.260 leveldbjni-all 1.8

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## 1.265 lucene-analyzers-common 6.6.1

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`analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt`,  
`analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt`,  
`analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`

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`analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`  
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## 1.281 Iz4-java-1.4.0 1.4.0

## 1.282 machinist\_2.11-0.6.1 2.11-0.6.1

## 1.283 macro-compat\_2.11 1.1.1

## 1.284 Metrics Core Library 2.2.0

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## 1.285 minlog 1.3.0

## 1.286 mortbay-jetty-util 6.1.26

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# 1.287 multiset\_2.11 0.4

## 1.288 netty 3.6.4.Final

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with the Jakarta project as a whole.

Takashi Okamoto <[tokamoto at rd.nttdata.co.jp](mailto:tokamoto@rd.nttdata.co.jp)> has contributed a unicode  
character class fix and an initial posix character class implementation.

Mark Murphy <[markm at tyrell.com](mailto:markm@tyrell.com)> has contributed performance  
improvements to Perl5Substitution as well as adding support for  
\uULIE and escaping of \$.

Michael Davey <[michael.davey at codera.org](mailto:michael.davey@codera.org)> fixed some documentation and  
added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <[harald at ontopia.net](mailto:harald@ontopia.net)> updated  
MatchActionProcessor.processMatches() to accommodate character encodings.

## 1.302 osgi-resource-locator 1.0.1

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```

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```

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```
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```

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## 1.311 py4j-0.10.6 0.10.6

# 1.312 pyrolite 4.13

## 1.313 reporter-config-base 3.0.0

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## 1.314 reporter-config3 3.0.0

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## 1.315 scala-compiler 2.10.0

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```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Scala License | The Scala Programming Language</title>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>
```

```
<link rel="icon" type="image/png" href="/resources/favicon.ico">
```

```
<link rel="shortcut icon" type="image/png" href="/resources/favicon.ico">
```

```
<!-- prettify CSS (corresponding js at footer)-->
```

```
<link rel="stylesheet" href="/resources/css/prettify.css" type="text/css" />
```

```
<!-- Bootstrap CSS -->
```

```
<link rel="stylesheet" href="/resources/css/bootstrap.css" type="text/css" />
```

```
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,600,700,900,400italic,700italic'
rel='stylesheet' type='text/css'>
```

```
<!-- Custom stylesheet -->
```

```
<link rel="stylesheet" href="/resources/css/main.css" type="text/css" />
```

```
<!-- Typekit (should stay at top of page, do not move to footer)-->
```

```
<script type="text/javascript" src="//use.typekit.net/abh3wgk.js"></script>
```

```
<script type="text/javascript">try{Typekit.load();}catch(e){}</script>
```

```

<!-- Atom feeds -->
<link rel="alternate" type="application/atom+xml" title="News Feed" href="/feed/index.xml" />
<link rel="alternate" type="application/atom+xml" title="Blog Feed" href="/feed/blog.xml" />

</head>
<body>

<div class="darkstrip"></div>

<div class="darkbluetopbar">
<div class="container" style="height: 100%">
<div class="navbar-wrap">
<div class="container" style="position: relative; height: 100%;">
<div class="scala-logo">
<a href="/index.html"></a>
</div>
<ul class="nav">
<li><a href="/documentation/">Documentation</a></li>
<li><a href="/download/">Download</a></li>
<li><a href="/community/">Community</a></li>
<li><a href="/contribute/">Contribute</a></li>
<li id="source-code" >
<a href="http://github.com/scala/scala"></a>
<div class="toptip">Source Code</div>
</li>
<li id="scala-lang-twitter">
<a href="http://twitter.com/scala_lang"></a>
<div class="toptip">Scala on Twitter</div>
</li>
</ul>

</div>
</div>
</div>
</div>

<div class="midbluebar">
<div class="container">
<h1 id="page-title">Scala License</h1>
</div>
</div>

<div class="page-container">
<div class="container" style="min-height: 540px;">

```

<div class="main-page-column">

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</div>

<div class="sidebar">

<div class="sidebar-inner">

<div class="contents">Contents</div>

<div id="toc"></div>

<br/>

<div class="alert-info">

<a href="/contribute/documentation.html#updating-scala-langorg"><p><strong>Problem with this page?</strong>

Please help us fix it!</p></a>

```
</div>
</div>
</div>
<div style="clear:both"></div>
```

```
</div>
</div>
```

```
<div class="footer">
<div class="container">
  <ul>
    <li><h5>Documentation</h5></li>
    <li><a href="/documentation/getting-started.html">Getting Started</a></li>
    <li><a href="http://www.scala-lang.org/api/current/index.html#package">API</a></li>
    <li><a href="http://docs.scala-lang.org/overviews/">Overviews/Guides</a></li>
    <li><a href="http://docs.scala-lang.org/tutorials/">Tutorials</a></li>
    <li><a href="/files/archive/spec/2.12/">Language Specification</a></li>
  </ul>
  <ul>
    <li><h5>Download</h5></li>
    <li><a href="/download/">Current Version</a></li>
    <li><a href="/download/all.html">All Versions</a></li>
  </ul>
  <ul>
    <li><h5>Community</h5></li>
    <li><a href="/community/">Community</a></li>
    <li><a href="/community/index.html#mailing-lists">Mailing Lists</a></li>
    <li><a href="/community/index.html#chat-rooms">Chat Rooms & More</a></li>
    <li><a href="/community/index.html#community-libraries-and-tools">Libraries and Tools</a></li>
    <li><a href="https://scala.epfl.ch/">The Scala Center</a></li>
  </ul>
  <ul>
    <li><h5>Contribute</h5></li>
    <li><a href="/contribute">How to Help</a></li>
    <li><a href="/contribute/bug-reporting-guide.html">Report an Issue</a></li>
  </ul>
  <ul>
    <li><h5>Scala</h5></li>
    <li><a href="/blog">Blog</a></li>
    <li><a href="/news">Archive</a></li>
    <li><a href="/conduct.html">Code of Conduct</a></li>
    <li><a href="/license.html">License</a></li>
  </ul>
</div>
<div class="container">
  <div class="copyright">
    <a style="float: left; margin-right: 8px;" href="http://www.epfl.ch"></a>
  <p style="float: left;"><br/>Copyright &copy; 2002-</span> École Polytechnique
Fédérale de Lausanne
  (EPFL)<br/> Lausanne, Switzerland</p>
</div>
<div class="scala-logo-footer">
  
</div>
</div> <!-- container -->
</div> <!-- footer -->

<!-- prettify js -->
<script src="/resources/js/vendor/prettify/prettify.js" type="text/javascript" ></script>
<script src="/resources/js/vendor/prettify/lang-scala.js" type="text/javascript" ></script>

<!-- jquery js -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.8.3/jquery.min.js" integrity="sha384-
lifoBlbdwizTl3Yoe612uhI3AcOam/QtWkozF7SuiACaf5UJl5reOYu4MigVxrCH"
crossorigin="anonymous"></script>

<!-- modernizr js -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/modernizr/2.6.2/modernizr.min.js" integrity="sha256-
zyXsGPIj9MUc4RKKQuZEzcIkTYj4nRpRRA2dvlH07+g=" crossorigin="anonymous"></script>

<!-- retina js -->
<script src="/resources/js/vendor/retina.js" type="text/javascript" ></script>

<!-- backstretch js -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery-backstretch/2.0.4/jquery.backstretch.min.js"
integrity="sha256-V52dl30FjoY+fYAkifhLJ7f1V7mZAKPGCQoWzoQxrEU="
crossorigin="anonymous"></script>

<!-- Bootstrap JS -->
<script src="https://maxcdn.bootstrapcdn.com/twitter-bootstrap/2.2.1/js/bootstrap.min.js" integrity="sha384-
qJ8AGIuPqPo4I2zhyRYO6vQaJrGBbTpLiXGihDsGpfMCHJD0IKH0gkPQTtoGD5ek3"
crossorigin="anonymous"></script>

<!-- table of contents JS -->
<script src="/resources/js/vendor/toc.js" type="text/javascript" ></script>
<script type="text/javascript">
$(document).ready(function(){
  $('#toc').toc({exclude: 'h1, h5, h6', context: '', autoId: true, numerate: false});
  function moveScroller() {
    if ($(".sidebar").length == 0)
      return;
    var a = function() {
      var topOfScroll = $(window).scrollTop();

```

```

var topOfSidebar = $(".sidebar").offset().top;
var sidebarInner = $(".sidebar-inner");
var bottomOfSidebarInner = $(".sidebar-inner").offset().top + $(".sidebar-inner").outerHeight();
var topOfFooter = $(".footer").offset().top - 10;
var footerHeight = $(".footer").outerHeight();
if (topOfScroll > topOfSidebar) {
  if (bottomOfSidebarInner > topOfFooter) {
    sidebarInner.css({position:"fixed",bottom:footerHeight,top:""});
  } else {
    sidebarInner.css({position:"fixed",top:"10px",bottom:""});
  }
} else {
  sidebarInner.css({position:"relative",top:""});
}
};
$(window).scroll(a);a()
}
moveScroller();
})
</script>

```

```

<!-- Custom javascript -->
<script src="/resources/js/main.js" type="text/javascript"></script>
</body>
</html>

```

## 1.316 scala-compiler 2.11.11

## 1.317 scala-reflect 2.11.11

## 1.318 scalacheck\_2.11 1.13.4

## 1.319 scalap-2.11.11 2.11.11



# 1.320 securesm 1.1

## 1.321 Servlet Specification API 2.5-20081211

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## 1.339 spark-sql\_2.11 2.3.0

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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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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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When a "work that uses the Library" uses material from a header file

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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.)

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.

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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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```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

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10(unixSymbolicPermission=)789;.:org/apache/hadoop/fs/permission/FsPermission$IJK<=>org/apache/hadoop/io/Writable(org/apache/hadoop/fs/permission/FsActionjava/io/IOExceptionjava/lang/String?9org/apache/hadoop/classification/InterfaceAudience$Public@:org/apache/hadoop/classification/InterfaceStability$Stablevalues-
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(Lorg/apache/hadoop/fs/permission/FsAction;)Zreplace/(IILjava/lang/String;)Ljava/lang/StringBuilder;notandV(Lorg/apache/hadoop/fs/permission/FsAction;)Lorg/apache/hadoop/fs/permission/FsAction;$org/apache/hadoop/conf/Configurationget&(Ljava/lang/String;)Ljava/lang/String;getInt(Ljava/lang/String;I)Iorg/apache/commons/logging/Logwarn(Ljava/lang/Object;)Vjava/lang/Short(S)Ljava/lang/Short;format9(Ljava/lang/String;[Ljava/lang/Object;Ljava/lang/String;(Ljava/lang/String;Ljava/lang/String;)VsetInt(Ljava/lang/String;I)VcharAt(IC%org/apache/commons/logging/LogFactorygetLog3(Ljava/lang/Class;)Lorg/apache/commons/logging/Log;&org/apache/hadoop/io/WritableFactories
setFactory:(Ljava/lang/Class;Lorg/apache/hadoop/io/WritableFactory;)V2org/apache/hadoop/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStability!7E HIJKLMNMOMPQRST(UST&VWVTX YZ[3 Y\5]
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&34java/lang/EnumAorg/apache/hadoop/classification/InterfaceAudience\$LimitedPrivate<org/apache/hadoop/class  
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Pattern;)VcombineModes(IZ)IsymbolicZjava/util/regex/Patterncompile-  
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Unexpected%&'&(&)&,[\0org/apache/hadoop/fs/permission/PermissionParserjava/lang/Objectjava/lang/Stringjava/  
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+.:BCUC"java/lang/IllegalArgumentException/Mjava/lang/RuntimeException  
Unexpected%&'&(&)&,[\0org/apache/hadoop/fs/permission/PermissionParserjava/lang/Objectjava/lang/Stringjava/  
util/regex/Patternjava/util/regex/Matcher:org/apache/hadoop/classification/InterfaceAudience\$Private<org/apache/h  
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atches(Ljava/lang/String;)Vend()Ilength(I)Ljava/lang/String;charAt(I)CtoCharArray()[Ccontains(Ljava/lang/CharSe  
quence;)ZisEmpty substring(II)Ljava/lang/String;java/lang/ShortvalueOf%(Ljava/lang/String;)Ljava/lang/Short;  
shortValue()S2org/apache/hadoop/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStabil  
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=>?@AchmodOctalPatternLjava/util/regex/Pattern;chmodNormalPattern<init>(Ljava/lang/String;)VCodeLineNum  
berTableLocalVariableTablethis-Lorg/apache/hadoop/fs/permission/ChmodParser;modeStrLjava/lang/String;  
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InterfaceAudience\$Private;GUnstable>Lorg/apache/hadoop/classification/InterfaceStability\$Unstable;

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]\*)(([rwxXt]+)([,\s]\*)\s\*+org/apache/hadoop/fs/permission/ChmodParser0org/apache/hadoop/fs/permission/Permissi  
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ConstantValue<init>()VCodeLineNumberTableLocalVariableTablethis8Lorg/apache/hadoop/fs/permission/Access

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ControlException;(Ljava/lang/String;)VsLjava/lang/String;(Ljava/lang/Throwable;)VcauseLjava/lang/Throwable;
SourceFileAccessControlException.java
DeprecatedRuntimeVisibleAnnotationsLjava/lang/Deprecated;RuntimeInvisibleAnnotations+PublicInnerClasses;Lo
rg/apache/hadoop/classification/InterfaceAudience$Public;-
Stable<Lorg/apache/hadoop/classification/InterfaceStability$Stable;Permission
denied.6org/apache/hadoop/fs/permission/AccessControlExceptionjava/io/IOException.9org/apache/hadoop/classifi
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ssification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStability!
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nameLjava/lang/String:url<init>'(Ljava/lang/String;Ljava/lang/String;)VCodeLineNumberTableLocalVariableTable
this/Lorg/apache/ivy/core/module/descriptor/License;getName()Ljava/lang/String;getUrl
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Y**+*,
/*
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COPYRIGHTLjava/lang/String;
ConstantValue<init>()VCodeLineNumberTableLocalVariableTablethisCopyrightHandlerInnerClassesCLorg/apache
/ivy/osgi/updatesite/xml/FeatureParser$CopyrightHandler;handleAttributes(Lorg/xml/sax/Attributes;)VattsLorg/xml
/sax/Attributes;
Exceptions
SourceFileFeatureParser.java copyright
!"#$%&'org/apache/ivy/osgi/updatesite/xml/FeatureParser$CopyrightHandler*org/apache/ivy/osgi/util/DelegatingHan
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PERMISSIONInnerClassesHLorg/apache/commons/compress/archivers/dump/DumpArchiveEntry$PERMISSION;
SETGUISTICKY USER_READ
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GROUP\_EXEC  
WORLD\_READWORLD\_WRITE  
WORLD\_EXECcodeI\$VALUESI[Lorg/apache/commons/compress/archivers/dump/DumpArchiveEntry\$PERMISS  
ION;valuesK()[Lorg/apache/commons/compress/archivers/dump/DumpArchiveEntry\$PERMISSION;CodeLineNu  
mberTablevalueOf(Ljava/lang/String;)Lorg/apache/commons/compress/archivers/dump/DumpArchiveEntry\$PER  
MISSION;LocalVariableTablenameLjava/lang/String;<init>(Ljava/lang/String;II)Vthis  
Signature(I)Vfind(I)Ljava/util/Set;parr\$len\$i\$setLjava/util/Set;LocalVariableTypeTableYLjava/util/Set<Lorg/apach  
e/commons/compress/archivers/dump/DumpArchiveEntry\$PERMISSION;>;\ (I)Ljava/util/Set<Lorg/apache/commo  
ns/compress/archivers/dump/DumpArchiveEntry\$PERMISSION;>;<clinit>()VZLjava/lang/Enum<Lorg/apache/co  
mmons/compress/archivers/dump/DumpArchiveEntry\$PERMISSION;>;>;

SourceFileDumpArchiveEntry.java::;z{|Forg/apache/commons/compress/archivers/dump/DumpArchiveEntry\$PER  
MISSION@ }E~89java/util/HashSetEV<=>EF,-  
..,0,1,2,3,4,5,6,7,java/lang/Enumclone()Ljava/lang/Object;;org/apache/commons/compress/archivers/dump/Dump  
ArchiveEntry5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;(Ljava/lang/String;I)V  
java/util/Setadd(Ljava/lang/Object;)ZisEmpty()Zjava/util/CollectionemptySet(Ljava/util/Set;java/util/EnumSetcop  
yOf+(Ljava/util/Collection;)Ljava/util/EnumSet;@ 1 (@),@-,@.,@/,@0,@1,@2,@3,@4,@5,@6,@7,89:: <=>"  
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|+)([rwxXt]+)([,\s]\*)\s\*+org/apache/hadoop/fs/permission/ChmodParser0org/apache/hadoop/fs/permission/Permissi  
onParser"java/lang/IllegalArgumentException,org/apache/hadoop/fs/permission/FsPermissionU:org/apache/hadoop/  
classification/InterfaceAudience\$PrivateV<org/apache/hadoop/classification/InterfaceStability\$UnstableG(Ljava/la  
ng/String;Ljava/util/regex/Pattern;Ljava/util/regex/Pattern;)Vorg/apache/hadoop/fs/FileStatus  
getPermission0()Lorg/apache/hadoop/fs/permission/FsPermission;toShort()SisDirectory()ZcombineModes(IZ)Ijava/  
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p/classification/InterfaceStability!

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ConstantValue<init>()VCodeLineNumberTableLocalVariableTablethis8Lorg/apache/hadoop/fs/permission/Access  
ControlException;(Ljava/lang/String;)VsLjava/lang/String;(Ljava/lang/Throwable;)VcauseLjava/lang/Throwable;  
SourceFileAccessControlException.java  
DeprecatedRuntimeVisibleAnnotationsLjava/lang/Deprecated;RuntimeInvisibleAnnotations+PublicInnerClasses;Lo  
rg/apache/hadoop/classification/InterfaceAudience\$Public;-  
Stable<Lorg/apache/hadoop/classification/InterfaceStability\$Stable;Permission  
denied.6org/apache/hadoop/fs/permission/AccessControlExceptionjava/io/IOException.9org/apache/hadoop/classifi  
cation/InterfaceAudience\$Public/:org/apache/hadoop/classification/InterfaceStability\$Stable2org/apache/hadoop/cla  
ssification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStability!  
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#\$\$%<init>U(Ljava/lang/String;Ljava/lang/String;Lorg/apache/hadoop/fs/permission/FsPermission;)VCodeLineNum  
berTableLocalVariableTablethisInnerClasses4Lorg/apache/hadoop/fs/permission/PermissionStatus\$2;x0Ljava/lang/  
String;x1x2.Lorg/apache/hadoop/fs/permission/FsPermission;  
applyUMaskb(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/PermissionStat  
us;umask  
readFields(Ljava/io/DataInput;)VinLjava/io/DataInput;  
Exceptions&  
SourceFilePermissionStatus.javaEnclosingMethod('java/lang/UnsupportedOperationException)2org/apache/hadoop  
/fs/permission/PermissionStatus\$20org/apache/hadoop/fs/permission/PermissionStatusjava/io/IOExceptioncreateIm  
mutable(Ljava/lang/String;Ljava/lang/String;Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/  
fs/permission/PermissionStatus;()VOP\*+,- -  
\*<Y 0  
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!<init>(S)VCodeLineNumberTableLocalVariableTablethisImmutableFsPermissionInnerClassesDLorg/apache/hado  
op/fs/permission/FsPermission\$ImmutableFsPermission;  
permissionS  
applyUMask^(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/FsPermission;u

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mask.Lorg/apache/hadoop/fs/permission/FsPermission;
readFields(Ljava/io/DataInput;)VinLjava/io/DataInput;
Exceptions"
SourceFileFsPermission.java'java/lang/UnsupportedOperationException#Borg/apache/hadoop/fs/permission/FsPerm
ission$ImmutableFsPermission,org/apache/hadoop/fs/permission/FsPermissionjava/io/IOException()V >*
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1
nameLjava/lang/String;url<init>'(Ljava/lang/String;Ljava/lang/String;)VCodeLineNumberTableLocalVariableTable
this/Lorg/apache/ivy/core/module/descriptor/License;getName()Ljava/lang/String;getUrl
SourceFileLicense.java -org/apache/ivy/core/module/descriptor/Licensejava/lang/Object()V!
Y**+*,
/*
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COPYRIGHTLjava/lang/String;
ConstantValue<init>()VCodeLineNumberTableLocalVariableTablethisCopyrightHandlerInnerClassesCLorg/apache
/ivy/osgi/updatesite/xml/FeatureParser$CopyrightHandler;handleAttributes(Lorg/xml/sax/Attributes;)VattsLorg/xml
/sax/Attributes;
Exceptions
SourceFileFeatureParser.java copyright
!#$Aorg/apache/ivy/osgi/updatesite/xml/FeatureParser$CopyrightHandler*org/apache/ivy/osgi/util/DelegatingHan
dlerorg/xml/sax/SAXException(Ljava/lang/String;)VsetBufferingChar(Z)V0org/apache/ivy/osgi/updatesite/xml/Fea
tureParser
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```

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Version 3, 29 June 2007

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```
<thirdparty-licenses>
  <module name='ant'
    licenseType='apache-2.0'
    version='1.8.2'
    projectHome='http://ant.apache.org/'
    description='ANT (compile time)'>
    <jar name='ant.jar' />
  </module>
  <module name='ant-launcher'
    licenseType='apache-2.0'
    version='1.8.2'
    projectHome='http://ant.apache.org/'
    description='ANT launcher (compile time)'>
    <jar name='ant-launcher.jar' />
  </module>
  <module name='ant-junit'
    licenseType='apache-2.0'
    version='1.8.2'
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    description='ANT junit support (compile time)'>
    <jar name='ant-junit.jar' />
  </module>

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    licenseType='apache-2.0'
    version='1.44.0'
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    description='Used to generate an OSGI compliant conf/MANIFEST.MF'>
    <jar name='bnd.jar' />
  </module>
```

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<module name='Bouncy castle'
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  version='1.17'
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  description='Encryption algorithms. Used by ENCRYPT and AUTH (runtime)'>
  <jar name='bouncycastle.jar' />
</module>
<module name='Beanshell'
  licenseType='lgpl (dual license, but LGPL may be chosen)'
  version='2.0b5'
  projectHome='http://www.beanshell.org'
  description='Lightweight Scripting for Java. Used mainly by the BSH protocol (uncomplete) (runtime)'>
  <jar name='bsh.jar' />
</module>
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  version='2.1.0'
  projectHome='http://www.jboss.org/byteman'>
  <jar name='byteman.jar' />
</module>
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  version='2.1.0'
  projectHome='http://www.jboss.org/byteman'>
  <jar name='byteman-bmunit.jar' />
</module>
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  version='2.1.0'
  projectHome='http://www.jboss.org/byteman'>
  <jar name='byteman-install.jar' />
</module>
<module name='byteman-submit'
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  version='2.1.0'
  projectHome='http://www.jboss.org/byteman'>
  <jar name='byteman-submit.jar' />
</module>
<module name='creative-commons'
  licenseType='creative-commons'
  version='2.5'
  projectHome='http://creativecommons.org/licenses/by/2.5/'
  description='Annotations of JCIP'>
  <jar name='none (part of src tree: org.jgroups.annotations)' />
</module>
<module name='log4j'
  licenseType='apache-2.0'
  version='1.2.14'

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    projectHome='http://logging.apache.org/'
    description='Java logging framework (runtime)'\>
    <jar name='log4j.jar' /\>
</module>
<module name='serializer'
    licenseType='apache-2.0'
    version='1.6.5'
    projectHome='http://ant.apache.org/'
    description='ANT (compile time), needed for generation of test reports'\>
    <jar name='serializer.jar' /\>
</module>
<module name='testng'
    licenseType='apache-2.0'
    version='6.8'
    projectHome='http://www.testng.org'
    description='Used for unit testing'\>
    <jar name='testng-6.8.jar' /\>
</module>
<module name='xalan'
    licenseType='apache-2.0'
    version='2.4.D1'
    projectHome='http://xml.apache.org/xalan-j/'
    description='Xalan-Java is an XSLT processor for transforming XML documents.
        Used to generate HTML test reports from XML (testing time)'\>
    <jar name='xalan.jar' /\>
</module>
</thirdparty-licenses>
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```

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DOM4J library (dom4j-1.6.1.jar)

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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

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include/winstdint.h is included only for Windows Client support, as follows:

```
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//
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Net::ZooKeeper - Perl extension for Apache ZooKeeper  
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This contrib depends on binary only jar libraries developed at:

<https://jersey.dev.java.net/>

<https://grizzly.dev.java.net/>

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