Open Source Used In WAP Rest API 1.0

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1.71 commons-codec 1.10

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<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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- The class "org.apache.commons.math3.exception.utilLocalizedFormatsTest" which is an adapted version of "OrekitMessagesTest" test class for the Orekit library
- The "org.apache.commons.math3.analysis.interpolation.HermiteInterpolator" has been imported from the Orekit space flight dynamics library.

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The initial code for shuffling an array (originally in class
"org.apache.commons.math3.random.RandomDataGenerator", now replaced by
a method in class "org.apache.commons.math3.util.MathArrays") was
inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999).
The textbook (containing a proof that the shuffle is uniformly random) is
available here:
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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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/*

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 */

package org.apache.derbyTesting.functionTests.tests.lang;
/**
 * Helper class for testing sql authorization.
 * 
 */

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/fa/stopwords.txt,
    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/de/GermanLightStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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***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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A number of small but very helpful changes have been contributed by Adrien Grand (https://github.com/jpountz)

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org.eclipse.jetty.toolchain:jetty-schemas

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

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 */

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Almost all the code above uses the `lz4hc()` function, which is a fast LZ compression algorithm.

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-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-native-client/src/main/native/fuse-dfs/util/tree.h

---------------------------------------------------------------------

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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-native-client/src/main/native/fuse-dfs/util/tree.h

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

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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 commaSeparated = false;

    for (int i = 0; i < 1 || matcher.end() < modeStr.length(); i++) {
      if (i > 0 && (!commaSeparated || !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;
          case 'x':
          case '-',
          case '+':
            break;
          case 't':
            stickyBit = true;
            break;
          default:
            throw new IllegalArgumentException(modeStr);
        }
      }
  }
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);
userMode = 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, userMode,
(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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 */
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;
    }

    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 [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 [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.
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.
 * 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.
 *                        Example: "user:foo:rw-"
 * @param includePermission for setAcl operations this will be true. i.e. Acl should include permissions.
 *                        But for removeAcl operation it will be false. i.e. Acl should not contain permissions.
 *                        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);
     }
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 (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++;
}

AclEntry aclEntry = builder.build();
return aclEntry;

/**

* AclEntry created from a split String.
* @param aclStr the aclStr from the split String
* @param includePermission true if includePermission is set in aclStr
* @return a AclEntry from aclStr
*/

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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 */
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 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
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
 * @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)}.<p/>
* @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.
*/

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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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 * 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;
}
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);
}

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 = FS ACTION 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 instance = new FsPermission();
    instance.fromShort(in.readShort());
    return instance;
}
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.
 */
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) {

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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;

import java.io.IOException;

import java.io.IOException;

import java.io.IOException;

import java.io.IOException;

import java.io.IOException;

*/

* Store permission related information.
*/
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 PermissionStatus from DataInput.
 */
public static PermissionStatus read(DataInput in) throws IOException {
    PermissionStatus p = new PermissionStatus();
    p.readFields(in);
    return p;
}

/**
 * Serialize a 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;
}
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)
            .build());
    // Add entries
    for (AclEntry entry : entries) {
        acl.add(entry);
    }
    return acl;
}

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

null = 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,
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]*)([,\\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) {

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// 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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* java.sun.security.ssl
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org.eclipse.jetty.toolchain:jettyschemas

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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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org.eclipse.jetty.toolchain:jetty-schemas

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

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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;

/**

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* 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)
        .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;
}
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;

@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;
}
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

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.
*/

class 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."
                + " with value ";
            LOG.warn(error);
        }
    }

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

    if (umask != 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"
                + ": oldUmask = 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);
}
public static FsPermission getFileDefault() {
    return new FsPermission((short)00666);
}

public static FsPermission getCachePoolDefault() {
    return new FsPermission((short)00755);
}

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

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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
 * (cause==null ? null : cause.toString()) (which typically contains the class and
detail message of cause).  @param cause the cause (which is saved for later retrieval by
the [getCause]() method).  (A null value is permitted, and indicates that the cause is
nonexistent or unknown.)
 */
public AccessControlException(Throwable cause) {
    super(cause);
}

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governing permissions and limitations under the License.
*/
package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.io.BytesWritable;
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 PermissionStatus from DataInput.
 */
public static PermissionStatus read(DataInput in) throws IOException {
    PermissionStatus p = new PermissionStatus();
    p.readFields(in);
    return p;
}

/**
 * Serialize a 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);
}
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() {
}
}
ImmutableFsPermissionInnerClasses

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;)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
InnerClassesBuildertype.Lorg/apache/hadoop/fs/permission/AclEntryType:nameLjava/lang/String;
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23456chmodOctalPatternLjava/util/regex/Pattern;umaskSymbolicPattern
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23456chmodOctalPatternLjava/util/regex/Pattern;umaskSymbolicPattern
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stickyBitmodecommaSeperatedFapplyOctalPatternsbcombineModes(IZ)IexistingexOkcombineModeSegments(CI
IZ)icapX
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/InterfaceAudience$Private;Unstable>Lorg/apache/hadoop/classification/InterfaceStability$Unstable;#$*+,+-
.+::BCTC"java/lang/IllegalArgumentException/Mjava/lang/RuntimeException
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mD+EFGH
IH6J7D~K+PrLSNtMSKwNSH$0S
P&QH4567::R$2=>@>S9=>@>SA
Z==>@==>@TCIn***=ZZ,N.*.*=.;***2*
-3:K`m34n45n67n::XU7:4J7<3<VW1U***|x***| x***| x***~ 23 U45UXHUY$Z[1r6~6==4+!.(=1===
Y~~~26
8%HUKp3>r45rK+rPHrXHrYSo$<!]^_
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67
89
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* Copyright 2011 FuseSource Corp. http://fusesource.com

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```
The Netty Project

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```

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Also, please refer to each LICENSE.<component>.txt file, which is located in
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-------------------------------------------------------------------------------
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  * license/LICENSE.jsr166y.txt (Public Domain)
* HOMEPAGE:
  * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
  * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/jsr166/

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* HOMEPAGE:
  * http://iharder.sourceforge.net/current/java/base64/

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  * https://github.com/joewalnes/webbit

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* HOMEPAGE:
  * http://www.slf4j.org/

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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 'jbzip2', a Java bzip2 compression and decompression library written by Matthew J. Francis. It can be obtained at:

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  * license/LICENSE.jbzip2.txt (MIT License)
* HOMEPAGE:
  * https://code.google.com/p/jbzip2/

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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  * license/LICENSE.libdivsufsort.txt (MIT License)
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  * https://code.google.com/p/libdivsufsort/

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* java.sun.security.ssl

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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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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);
}

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/**
 * 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("-xw"),
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
 * @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);
    
    /*
     * 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 {

    @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 { @code DEPRECATED_UMASK_LABEL} config param has umask value set to decimal.
end

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."
                + 
                "configuration key is deprecated. " + "Convert to " +
                "UMASK_LABEL + ", using octal or symbolic umask " +
                "specifications.";
            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;

    /**
     * Groups a list of ACL entries into separate lists for access entries vs.
     * default entries.
     *
     */
    @Override
    public void readFields(DataInput in) throws IOException {
        throw new UnsupportedOperationException();
    }
}

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;

/**
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 * public void readFields(DataInput in) throws IOException {
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 * }
 */

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

    /**
     * Groups a list of ACL entries into separate lists for access entries vs.
     * default entries.
     *
     */
    @Override
    public void readFields(DataInput in) throws IOException {
        throw new UnsupportedOperationException();
    }
}
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;
} else {
    return PIVOT_NOT_FOUND;
}
}
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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.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
* 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;

/**
* 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]*)([,\\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.
*

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* 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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* limitations under the License.
*/

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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 * limitations under the License.
 */
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();
}

3A		)*

+}

/0123rawOctalPatternLjava/util/regex/Pattern;rawNormalPattern
permissionS<clinit>()VCodeLineNumberTableLocalVariableTablethis+Lorg/apache/hadoop/fs/per
mission/RawParser;modeStrLjava/lang/String;
Exceptions4
getPermission()S<clinit>()V
SourceFileRawParser.javaRuntimeVisibleAnnotations6PrivateInnerClasses<Lorg/apache/hadoop/classification/Inter
faceAudience$Private;8Unstable>Lorg/apache/hadoop/classification/InterfaceStability$Unstable;
AclEntry.java

9;0.org/apache/hadoop/fs/permission/AclEntry>0.org/apache/hadoop/fs/permission/AclEntry$Builderjava/lang/Object

org/apache/hadoop/fs/permission/AclEntryScopeACCESSjava/lang/StringisEmpty()Z?(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/AclEntry$1;)V
*org/apache/hadoop/fs/permission/AclEntry$1!

:**
?*++*

W+++++++!"#?++*
$%?++*
&/C****()
<
3OP
QRS
UVW
XYZ
[
]\n^_O`Oabcbde
fVgYhYi
\Yk
\Qm
UnogetAclFromPermAndEntriesP(Lorg/apache/hadoop/fs/permission/FsPermission;Ljava/util/List;)Ljava/util/List;
getGroupName()
getPermission0()
applyUMaskb
readFields()
write()
readG()
pi()
SourceFilePermissionStatus.java
RuntimeVisibleAnnotations
MapReduce
Readable
setFactory:

Open Source Used In WAP Rest API 1.0

java/lang/Object
java/io/Writable
java/io/IOException
org/apache/hadoop/io/WritableFactories
Open Source Used In WAP Rest API 1.0

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

D++
')(+M,>+
1~6*12
354(#
!'#$%&@'(-

!)*/
2..D-&0F1&
3

SourceFileAclStatus.javaEnclosingMethod+org/apache/hadoop/fs/permission/AclStatus$1InnerClassesjava/lang/Object)org/apache/hadoop/fs/permission/AclStatus
3F
+
-
-

-
/
01
23456chmodOctalPatternLjava/util/regex/Pattern;umaskSymbolicPattern
umaskModeS<init>(Ljava/lang/String;)VCodeLineNumberTableLocalVariableTablethis-Lorg/apache/hadoop/fs/permission/UmaskParser;modeStrLjava/lang/String;
Exceptions7getUMask($)StackMapTable<clinit>()V

<=?@^s*[+]?(0*)([0-7]{3})s*$ABC)s*$([ugoal]*)([+-=]+)([rwx]*)([\s\s]*)([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/pattern;}

S***+-S***-::<< -
#%!'#*
'&$8%&(:)&
3?,
-/0
1
ImmutableFsPermissionInnerClasses.LOG
org/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;)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;
applyUMask^(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/FsPermission;
maskgetUMaskV(Lorg/apache/hadoop/fs/permission/FsPermission;)V
getDefault0()Lorg/apache/hadoop/fs/permission/FsPermission;
getDirDefaultgetFileDefaultgetCachePoolDefaultValueOFB(Ljava/lang/String;)Lorg/apache/hadoop/fs/permission/FsPermission;:
cIunixSymbolicPermission3(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$Stable;ijBorg/apache/hadoop/fs/permission/FsPermission$ImmutableFsPermissionisUVWXVXYZ{q}|q)org/apache/hadoop/fs/permission/RawParseriw!`a"#$%&,org/apache/hadoop/fs/permission/FsPermission';java/lang/StringBuilder(*iw+,V.--T/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
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* javax.transaction:javax.transaction-api
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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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  * Alec Wysoker
  * Performance and memory usage improvement

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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-native-client/src/main/native/fuse-dfs/util/tree.h

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

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* org.eclipse.jetty.orbit.java.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/GPLv2.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

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

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Apache

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org.apache.taglibs:taglibs-standard-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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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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 */

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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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nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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

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

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

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Oracle

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

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

------

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

-----

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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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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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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-native-client/src/main/native/fuse-dfs/util/tree.h

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org.eclipse.jetty.toolchain:jetty-schemas

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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-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
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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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* 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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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fusedfs/util/tree.h
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org.eclipse.jetty.toolchain:jetty-schemas

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nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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 */

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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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```

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org.eclipse.jetty.toolchain:jetty-schemas

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

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*/

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

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2.6.5

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

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2.8.1

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

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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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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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/*
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-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
  hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
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* java.sun.security.ssl

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org.eclipse.jetty.toolchain:jetty-schemas

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/*

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

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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
* javax.websocket:javax.websocket-api

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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

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

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Apache

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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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

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nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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

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* java.sun.security.ssl

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

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org.apache.tomcat:tomcat-jasper
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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
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org.eclipse.jetty.toolchain:jetty-schemas

------

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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org.eclipse.jetty.toolchain:jetty-schemas

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Oracle

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

----
Oracle OpenJDK

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* java.sun.security.ssl

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

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

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org.apache.taglibs:taglibs-standard-spec
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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

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

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Assorted

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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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nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:
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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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* 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.
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org.ow2.asm:asm-commons
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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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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-native-client/src/main/native/fuse-dfs/util/tree.h

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

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

-------

Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
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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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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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For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/_compatstatatcompatopenatcompatunlinkat.h:

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. 
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org.eclipse.jetty.toolchain:jetty-schemas

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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-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
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org.eclipse.jetty.toolchain:jetty-schemas

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For:

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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
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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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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org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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

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1.185 httpcore 4.4.4
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1.186 httpcore 4.4.5

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<meta http-equiv="X-UA-Compatible" content="IE=edge">
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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> &raquo; <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>
</ul>
</li>
</ul>
</div>
</div>
</nav>
</header>

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 * /
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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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**1.193 jackson-jaxrs 1.9.13**

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1.195 jackson-xc 1.9.13

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1.196 jamm 0.3.0

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1.198 janino 3.0.8

1.199 java-util 1.9.0

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1.206 javax.inject 1

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1.207 javax.inject 2.4.0-b34

1.208 Javax.Servlet-api 3.1.0

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/**
 * Default implementation of the Attributes interface.
 *
 * <blockquote>
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 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * This class provides a default implementation of the SAX2
 * <code>{@link org.xml.sax.Attributes Attributes}</code> interface, with the
 * addition of manipulators so that the list can be modified or
 * reused.</p>
 *
 * There are two typical uses of this class:
 *
 * <ol>
 * <li>to take a persistent snapshot of an Attributes object
 * in a <code>{@link org.xml.sax.ContentHandler#startElement startElement}</code> event; or</li>
 * <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
 * </ol>
 *
 * This class replaces the now-deprecated SAX1 <code>{@link org.xml.sax.helpers.AttributeListImpl AttributeListImpl}</code>
 * class; in addition to supporting the updated Attributes
 * interface rather than the deprecated <code>{@link org.xml.sax.AttributeList AttributeList}</code> 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.
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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.
 * <p>
 * @author Paul.Sandoz@Sun.Com
 */
public abstract class CommittingOutputStream extends OutputStream {

    private OutputStream o;

    /**
     * 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.
     * <p>
     * @author Paul.Sandoz@Sun.Com
     */
    public abstract class CommittingOutputStream extends OutputStream {
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;

    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;
}
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.
*<p>
* @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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1.253 junit-interface 0.11

1.254 kafka-clients 0.11.0.0.-test

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1.257 kafka_2.11 0.11.0.0

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1.260 leveldbjni-all 1.8

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   analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
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   analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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\texttt{analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt},
\texttt{analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt}
See \url{http://members.unine.ch/jacques.savoy/clef/index.html}.

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\texttt{analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java},
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\texttt{analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java},
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1.301 oro 2.0.8

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 */
Daniel Savarese <dfs at savarese.org> is the original author of the
OROMatcher, PerlTools, AwkTools, and TextTools packages that became
the Jakarta-ORO project.

Jon Stevens <jon at collab.net> helped prepare the first release of
jakarta-oro and is a constant help in keeping the project consistent
with the Jakarta project as a whole.

Takashi Okamoto <tokamoto at rd.nttdata.co.jp> has contributed a unicode
class character class fix and an initial posix character class implementation.

Mark Murphy <markm at tyrell.com> has contributed performance
improvements to Perl5Substitution as well as adding support for
\UuLlE and escaping of $.

Michael Davey <michael.davey at coderage.org> fixed some documentation and
added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <harald at ontopia.net> updated
MatchActionProcessor.processMatches() to accommodate character encodings.

1.302 osgi-resource-locator 1.0.1
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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
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1.321 Servlet Specification API 2.5-20081211

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ControlException;Ljava/lang/String;)V

SourceFileAccessControlException.java

Description:

SourceFileAccessControlException is a subclass of AccessControlException.

Fields:

- serialVersionUID: long

Constructors:

- SourceFileAccessControlException()

Methods:

- SourceFileAccessControlException(String)

Methods of super class:

- AccessControlException()

Exception:

IOException

Exceptions:

- AccessControlException

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Changes:

- Includes new method getName() in License class.

- Adds new method getUrl() in License class.

- Includes new method handleAttributes() in CopyrightHandler class.

- Adds support for handling multiple attributes in CopyrightHandler class.

- Implements SETUID/SETGID permissions check in DumpArchiveEntry class.

- Adds support for encoding/decoding in CompressArchiveEntry class.

- Includes new method setBufferingChar() in DelegatingHandler class.

- Implements SAXException handling in FeatureParser class.

- Adds support for handling feature sites in FeatureParser class.

- Implements new method handleAttributes() in CopyrightHandler class.

- Adds support for handling multiple attributes in CopyrightHandler class.

- Implements SETUID/SETGID permissions check in DumpArchiveEntry class.

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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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