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1.4 ANTLR ST4 4.0.4 4.0.4

1.5 antlr-runtime 3.4

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1.34 compress-lzf 1.0.3

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## Credit

Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi). It was started at Ning, inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of Ning by supporting community.

Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

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1.35 curator-recipes 2.6.0

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* java.sun.security.ssl

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

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js
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* 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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 */

package org.apache.hadoop.fs.permission;

import java.util.List;

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

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

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

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

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

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

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

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

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

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

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

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

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

/**
 * Adds a list of ACL entries.
 *
 * @param entries AclEntry entries to add
 * @return Builder this builder, for call chaining
 */
public Builder addEntries(Iterable<AclEntry> entries) {
    for (AclEntry e : entries)
        this.entries.add(e);
    return this;
}
/**
 * Sets sticky bit. If this method is not called, then the builder assumes
 * false.
 *
 * @param stickyBit
 *          boolean sticky bit
 * @return Builder this builder, for call chaining
 */
public Builder stickyBit(boolean stickyBit) {
    this.stickyBit = stickyBit;
    return this;
}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

    /**
     * A class for file/directory permissions.
     */
    @InterfaceAudience.Public
    @InterfaceStability.Stable
    public class FsPermission implements Writable {
        private static final Log LOG = LogFactory.getLog(FsPermission.class);
static final WritableFactory FACTORY = new WritableFactory() {
    @Override
    public Writable newInstance() { return new FsPermission(); }
};
static {                                        // register a ctor
    WritableFactories.setFactory(FsPermission.class, FACTORY);
    WritableFactories.setFactory(ImmutableFsPermission.class, FACTORY);
}
/** Maximum acceptable length of a permission string to parse */
public static final int MAX_PERMISSION_LENGTH = 10;
/** Create an immutable { @link FsPermission} object. */
public static FsPermission createImmutable(short permission) {
    return new ImmutableFsPermission(permission);
}

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

private FsPermission() {
}
/**
 * Construct by the given { @link FsAction}. 
 * @param u user action
 * @param g group action
 * @param o other action
 */
public FsPermission(FsAction u, FsAction g, FsAction o) {
    this(u, g, o, false);
}
public FsPermission(FsAction u, FsAction g, FsAction o, boolean sb) {
    set(u, g, o, sb);
}
/**
 * Construct by the given mode.
 * @param mode
 * @see #toShort()
 */
public FsPermission(short mode) { fromShort(mode); }
* Copy constructor
*
* @param other other permission
*/
public FsPermission(FsPermission other) {
    this.useraction = other.useraction;
    this.groupaction = other.groupaction;
    this.otheraction = other.otheraction;
    this.stickyBit = other.stickyBit;
}

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

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

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

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

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

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

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

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

    @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

---

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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.
*
```java
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 != 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;

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

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

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

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

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

import java.io.IOException;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

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

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

    }
}
super("Permission denied.");
}

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

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

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

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.io.*;
import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;

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

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

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

    private PermissionStatus() {} 

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

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

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

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

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

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

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

/**
 * Serialize a {@link PermissionStatus} from its base components.
 */
public static void write(DataOutput out, String username,
String groupname,
FsPermission permission) throws IOException {
    Text.writeString(out, username, Text.DEFAULT_MAX_LEN);
    Text.writeString(out, groupname, Text.DEFAULT_MAX_LEN);
    permission.write(out);
}
@Override
public String toString() {
    return username + ":" + groupname + ":" + permission;
}
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 * limitations under the License.
 */
package org.apache.hadoop.fs.permission;

import java.util.Iterator;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import com.google.common.collect.Lists;

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

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

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

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

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

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

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

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

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

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

LOG
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_LABELjava/lang/String;UMASK_LABEL
DEFAULT_UMASKFSACTION_VALUES+[Lorg/apache/hadoop/fs/permission/FsAction;createImmutable1(S)Lo
rg/apache/hadoop/fs/permission/FsPermission;CodeLineNumberTableLocalVariableTable
permissionS<init>()Vthis.Lorg/apache/hadoop/fs/permission/FsPermission;(Lorg/apache/hadoop/fs/permission/FsA
c tion;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;
ZVsb(S)Yvnode1(Lorg/apache/hadoop/fs/permission/FsPermission;)Vother(Ljava/lang/String;)V
getUserAction,(Lorg/apache/hadoop/fs/permission/FsAction;getGroupActiongetOtherActionsetFromShortnv
StackMapTable^write(Ljava/io/DataOutput;)VoutLjava/io/DataOutput;

Exceptions
readFields(Ljava/io/DataInput;)V
getUserAction,()Lorg/apache/hadoop/fs/permission/FsAction;getGroupActiongetOtherActionsetFromShortnv
StackMapTable^write(Ljava/io/DataOutput;)VoutLjava/io/DataOutput;

getUserAction,()Lorg/apache/hadoop/fs/permission/FsAction;getGroupActiongetOtherActionsetFromShortnv
StackMapTable^write(Ljava/io/DataOutput;)V

getDirDefault()Lorg/apache/hadoop/fs/permission/FsPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsUserPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsGroupPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsOtherPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsUserUserPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsGroupGroupPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsOtherOtherPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsUserUserUserPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsGroupGroupGroupPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsOtherOtherOtherPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsUserUserUserUserPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsGroupGroupGroupGroupPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsOtherOtherOtherOtherPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsUserUserUserUserUserPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsGroupGroupGroupGroupGroupPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsOtherOtherOtherOtherOtherPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsUserUserUserUserUserUserPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsGroupGroupGroupGroupGroupGroupPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsOtherOtherOtherOtherOtherOtherPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsUserUserUserUserUserUserUserPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsGroupGroupGroupGroupGroupGroupGroupPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsOtherOtherOtherOtherOtherOtherOtherPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsUserUserUserUserUserUserUserUserPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsGroupGroupGroupGroupGroupGroupGroupGroupPermission;
getDirDefault()Lorg/apache/hadoop/fs/permission/FsOtherOtherOtherOtherOtherOtherOtherOtherPermission;
Open Source Used In Jabber Analytics 1.0
AclEntry.java

(type.Lorg/apache/hadoop/fs/permission/AclEntryType;nameLjava/lang/String;
permission*Lorg/apache/hadoop/fs/permission/FsAction;scope/Lorg/apache/hadoop/fs/permission/AclEntryScope;<
init>()V)

CodeLineNumberTable
LocalVariableTable
thisBuilder
InnerClasses
2Lorg/apache/hadoop/fs/permission/AclEntry$Builder;

setTypeb(Lorg/apache/hadoop/fs/permission/AclEntryType;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;

setNameF(Ljava/lang/String;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;

setPermission^(Lorg/apache/hadoop/fs/permission/FsAction;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;

setScope(Lorg/apache/hadoop/fs/permission/AclEntryScope;)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;

build,()Lorg/apache/hadoop/fs/permission/AclEntry;

SourceFile
AclEntry.java34

(org/apache/hadoop/fs/permission/AclEntry70org/apache/hadoop/fs/permission/AclEntry$Builderjava/lang/Object-
org/apache/hadoop/fs/permission/AclEntryScopeACCESS8(Lorg/apache/hadoop/fs/permission/AclEntryType:Ljava
/lang/String:Lorg/apache/hadoop/fs/permission/FsAction:Lorg/apache/hadoop/fs/permission/AclEntryScope:Lorg/a
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othersMode
stickyModeuserTypeCgroupType
othersType
chmodOctalPattern(java/util/regex/Pattern;chmodNormalPattern<int>(java/lang/String;))VCodeLineNumberTableLocalVariableTablethis-Lorg/apache/hadoop/fs/permission/ChmodParser;modeStr(java/lang/String;)
ExceptionsBapplyNewPermission$<Lorg/apache/hadoop/fs/permission/FileStatus;>file!Lorg/apache/hadoop/fs/FileStatus;permissions.Lorg/apache/hadoop/fs/permission/FsPermission;existingIexeOkZ
StackMapTable
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RuntimeVisibleAnnotationsEPrivateInnerClasses<br>org/apache/hadoop/classification/InterfaceAudience$Private;GUnstable<Lorg/apache/hadoop/classification/InterfaceStability$Unstable;
HIJKCLMNOPQ^\s*\[+]?\[(01)?[0-7]{3}\]\s*\[ugoa\]*\[+=-\]+\[rwxXt\]+\[\,\s\]+org/apache/hadoop/fs/permission/ChmodParser0org/apache/hadoop/fs/permission/PermissionParser"java/lang/IllegalArgumentException,org/apache/hadoop/fs/permission/FsPermissionU:org/apache/hadoop/classification/InterfaceAudience$PrivateV<org/apache/hadoop/classification/InterfaceStability$UnstableG(Ljava/lang/String;java/util/regex/Pattern;java/util/regex/Pattern;)Vorg/apache/hadoop/fs/FileStatus
getPermission0()Lorg/apache/hadoop/fs/permission/FsPermission;toShort()SisDirectory()ZcombineModes(IZ)Ijava/util/regex/Patterncompile-
2org/apache/hadoop/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStability!

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entryIterLjava/util/Iterator;curEntry*org/apache/hadoop/fs/permission/AclEntry;LocalVariableTypeTable<Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;@Ljava/util/Iterator<org/apache/hadoop/fs/permission/AclEntry;>;StackMapTablepqreS
Signature(Lorg/apache/hadoop/fs/permission/FsPermission;Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;);Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;
applyUMask((Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/FsPermission;
readFields(Ljava/io/DataInput;)V
Ljava/io/DataInput;
Exceptions"
SourceFileFsPermission.java'java/lang/UnsupportedOperationException#Borg/apache/hadoop/fs/permission/FsPerm
ission$ImmutableFsPermission.org/apache/hadoop/fs/permission/FsPermissionjava/io/IOException()V >*
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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

------

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

------
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* java.sun.security.ssl

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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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------

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

------
Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

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This library containd statically linked libstdc++. This inclusion is allowed by "GCC RUntime Library Exception"

== Contributors ==
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  * Providing benchmark suite
* 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.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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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
/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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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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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
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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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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
The following artifacts are CDDL + GPLv2 with classpath exception.

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

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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.ivy.core.module.descriptor;

public class License {
    private String name;

    private String url;

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

    public String getName() {
        return name;
    }

    public String getUrl() {
        return url;
    }
}

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**1.56 jackson-core 2.6.7**

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AppleJavaExtensions
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1.86 minlog 1.3.0

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1.97 py4j-0.10.6 0.10.6

1.98 RoaringBitmap 0.5.11

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1.114 typesafe config 1.2.1
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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!